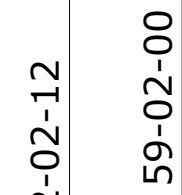


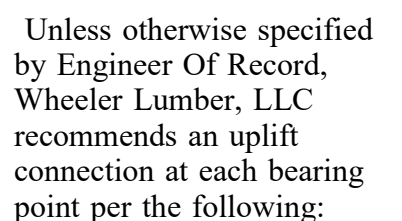


The Engineer's review is only for conformance with the design concept and General compliance with the Contract Documents. Corrections or comments made on the shop drawings during the review do not relieve the contractor from compliance with the requirements of the plans and specifications and applicable laws, codes and regulations. Review of a specific item shall not include review of an assembly of which the item is a component. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of the Work with that of all other trades and performing all Work in a safe and satisfactory manner.

BY AMS DATE 9/8/2022



Triangle denotes the left end of the Truss as it appears on the Engineered Drawings provided.

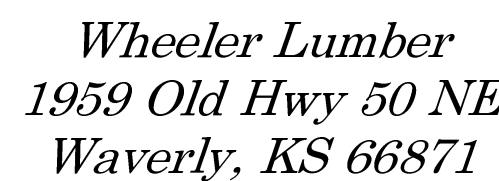


# of Uplift	Connector
0 - 495:	(1) H2.5A
495 - 990:	(2) H2.5A
990 - 1245:	(1) HTS20

Installation per Simpson
Strong-Tie guidelines.

For Reactions greater than 1245#, refer to EOR.

Customer		JWM Contracting	
Job Name		SOWP - Lot 9B Roof	
Job Site Address		904 NW Pryor Rd.	
City,	State	Lee's Summit	MO
Designer		Taylor Everhart	785-746-4239
8/5/2022		Job # 221102	



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Ottavio Drive, Madison, WI 53179.

Shop Drawing Approval

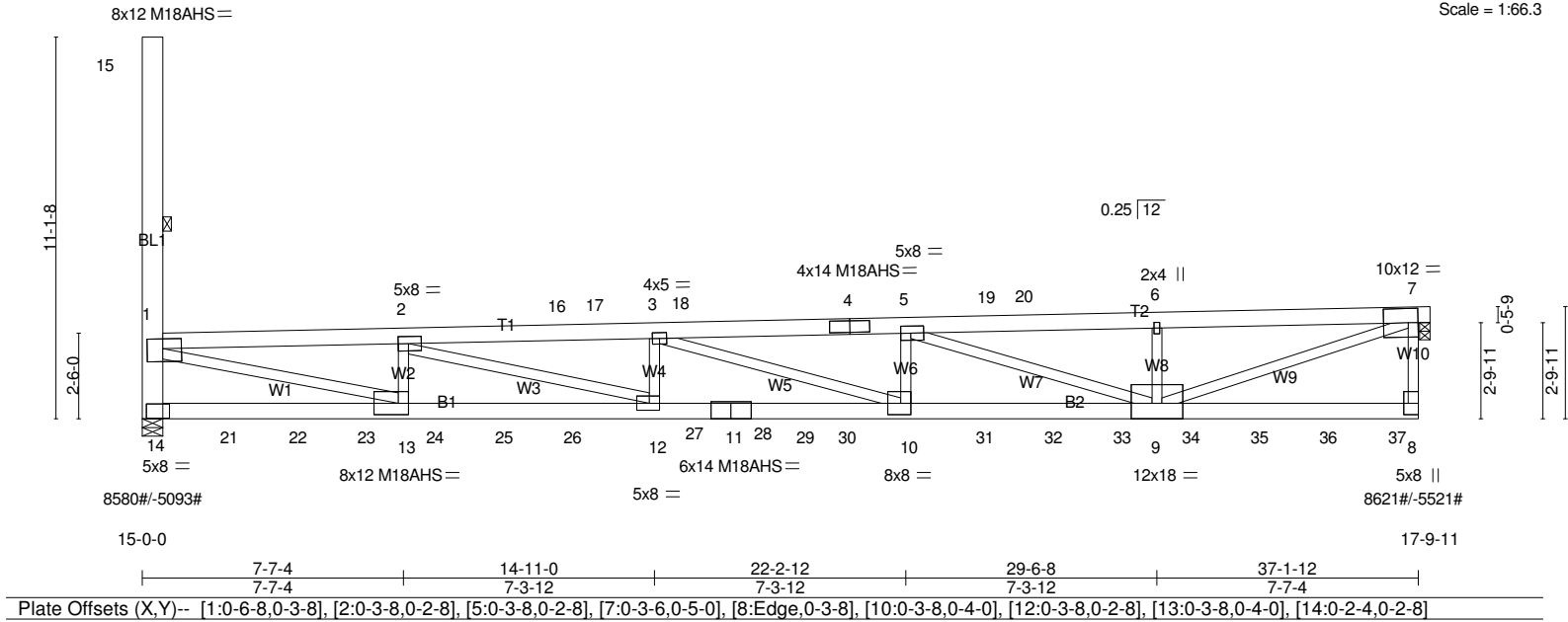
THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Aproved By: _____ Date: _____

Roof Truss Layout

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	A1	MONOPITCH GIRDER	2	3		
Wheeler Lumber, Waverly, KS 66871			Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITek Invision.com File: 221102.dwg User: jason@mittek.com			OSWELDMENT SERVICES DEPARTMENT
15-0-0			ID: Pmal1Jn0odbAt7yg9cdwkOzg39-2KFpXLdanSONi99-br1SfCeJ ZaopMst f15cayquii			Lee's Summit, Missouri
7-7-4			29-6-8			09/08/2022
14-11-0			7-3-12			0-4-2
22-2-12			7-3-12			
7-3-12			7-3-12			

Scale = 1:66.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	1.22 10-12	MT20	197/144		
TCDL	15.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-1.17 10-12	M18AHS	142/136		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	-0.08 7				
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S							
								Weight: 744 lb		FT = 10%	

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
T1: 2x6 SPF 1650F 1.4E
BOT CHORD 2x6 SP DSS
WEBS 2x4 SPF No.2 *Except*
W1,W9: 2x4 SPF 2100F 1.8E
OTHERS 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-7 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 1-14
10-0-0 oc bracing: 1-15
BOT CHORD Rigid ceiling directly applied or 6-7-13 oc bracing.
WEBS 1 Row at midpt 1-15

REACTIONS. (lb/size) 7=6268/0-3-10 (min. 0-3-6), 14=6588/0-7-4 (min. 0-3-6)
Max Horz 14=658(LC 11)
Max Uplift 7=5521(LC 11), 14=5093(LC 10)
Max Grav 7=8621(LC 43), 14=8580(LC 44)

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

TOP CHORD 1-14=-7699/4944, 1-2=-24553/16921, 2-16=-32889/22742, 16-17=-32883/22743,
3-17=-32882/22743, 3-18=-30547/21142, 4-18=-30547/21143, 4-5=-30541/21143,
5-19=-19700/13639, 19-20=-19697/13639, 6-20=-19696/13640, 6-7=-19699/13650,
7-8=-1000/1464
BOT CHORD 14-21=-3186/3741, 21-22=-3186/3741, 22-23=-3186/3741, 13-23=-3186/3741,
13-24=-17014/24554, 24-25=-17014/24554, 25-26=-17014/24554, 26-27=-17014/24554,
12-27=-17014/24554, 12-28=-22827/32897, 11-28=-22827/32897, 11-29=-22827/32897,
29-30=-22827/32897, 10-30=-22827/32897, 10-31=-21219/30557, 31-32=-21219/30557,
32-33=-21219/30557, 9-33=-21219/30557, 9-34=-252/336, 34-35=-252/336, 35-36=-252/336,
36-37=-252/336, 8-37=-252/336
WEBS 1-13=-15401/22518, 2-13=-3471/2377, 2-12=-7038/9303, 3-12=-725/949, 3-10=-2458/1689,
5-10=-2380/3512, 5-9=-11458/7936, 6-9=-536/464, 7-9=-14374/20703

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 10 = 0.00, 11 = 0.00, 12 = 0.00, 13 = 0.00 and 14 = 0.00

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 0-7-4 to 15-7-4, Exterior(2) 15-7-4 to 22-0-0, Corner(3) 22-0-0 to 37-0-0 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
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	RELEASED CONSTRUCTION As Noted on Plans Review
221102	A1	MONOPITCH GIRDER	2	3	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek International, Inc. File: C:\Users\joe\Documents\2021\221102\221102.dwg
ID: Pmal1Jn0odbAt7yg9cdwkOzg39-2KFpXLdanSONi99-br1SfCaJ_ZaoPMst15cayquii
Oswaldment Services Department
Lee's Summit, Missouri
09/08/2022

NOTES-

- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5521 lb uplift at joint 7 and 5093 lb uplift at joint 14.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28, 43, 44, 45, 46 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 745 lb down and 559 lb up at 2-5-4, 745 lb down and 560 lb up at 4-5-4, 745 lb down and 560 lb up at 6-5-4, 745 lb down and 560 lb up at 8-5-4, 745 lb down and 560 lb up at 10-5-4, 745 lb down and 560 lb up at 12-5-4, 745 lb down and 561 lb up at 14-5-4, 745 lb down and 561 lb up at 16-5-4, 745 lb down and 561 lb up at 18-5-4, 745 lb down and 561 lb up at 20-5-4, 745 lb down and 562 lb up at 22-5-4, 745 lb down and 562 lb up at 24-5-4, 745 lb down and 562 lb up at 26-5-4, 745 lb down and 562 lb up at 28-5-4, 745 lb down and 563 lb up at 30-5-4, 745 lb down and 563 lb up at 32-5-4, and 745 lb down and 563 lb up at 34-5-4, and 749 lb down and 559 lb up at 36-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 7-16=-70, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 10=-481(F) 21=-480(F) 22=-480(F) 23=-480(F) 24=-480(F) 25=-480(F) 26=-480(F) 27=-480(F) 28=-480(F) 29=-481(F) 30=-481(F) 31=-481(F) 32=-481(F) 33=-481(F) 34=-481(F) 35=-481(F) 36=-481(F) 37=-486(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-231-to-16=-70
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 7-16=-60, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 10=-394(F) 21=-393(F) 22=-393(F) 23=-393(F) 24=-393(F) 25=-393(F) 26=-393(F) 27=-394(F) 28=-394(F) 29=-394(F) 30=-394(F) 31=-394(F) 32=-394(F) 33=-394(F) 34=-394(F) 35=-394(F) 36=-394(F) 37=-399(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-181-to-16=-60
- 18) Dead + Snow on Overhangs: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 - Uniform Loads (plf)
 - Vert: 7-16=-30, 8-14=-20
 - Concentrated Loads (lb)
 - Vert: 10=-481(F) 21=-480(F) 22=-480(F) 23=-480(F) 24=-480(F) 25=-480(F) 26=-480(F) 27=-480(F) 28=-480(F) 29=-481(F) 30=-481(F) 31=-481(F) 32=-481(F) 33=-481(F) 34=-481(F) 35=-481(F) 36=-481(F) 37=-486(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-191-to-16=-30
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-14=-25, 1-15=-45, 7-16=-61, 8-14=-20
 - Horz: 1-14=25, 1-15=45, 1-7=1, 7-8=7
 - Concentrated Loads (lb)
 - Vert: 10=408(F) 21=406(F) 22=406(F) 23=407(F) 24=407(F) 25=407(F) 26=407(F) 27=407(F) 28=407(F) 29=407(F) 30=408(F) 31=408(F) 32=408(F) 33=408(F) 34=409(F) 35=409(F) 36=409(F) 37=405(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-182-to-16=-61
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-14=7, 1-15=45, 7-16=-61, 8-14=-20
 - Horz: 1-14=-7, 1-15=-45, 1-7=1, 7-8=-25
 - Concentrated Loads (lb)
 - Vert: 10=408(F) 21=406(F) 22=406(F) 23=407(F) 24=407(F) 25=407(F) 26=407(F) 27=407(F) 28=407(F) 29=407(F) 30=408(F) 31=408(F) 32=408(F) 33=408(F) 34=409(F) 35=409(F) 36=409(F) 37=405(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-182-to-16=-61
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-14=12, 1-15=30, 7-16=-61, 8-14=-20
 - Horz: 1-14=-12, 1-15=-30, 1-7=1, 7-8=12
 - Concentrated Loads (lb)
 - Vert: 10=408(F) 21=406(F) 22=406(F) 23=407(F) 24=407(F) 25=407(F) 26=407(F) 27=407(F) 28=407(F) 29=407(F) 30=408(F) 31=408(F) 32=408(F) 33=408(F) 34=409(F) 35=409(F) 36=409(F) 37=405(F)
 - Trapezoidal Loads (plf)
 - Vert: 1=-182-to-16=-61
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-14=12, 1-15=30, 7-16=-61, 8-14=-20
 - Horz: 1-14=-12, 1-15=-30, 1-7=1, 7-8=12

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A1	MONOPITCH GIRDER	2	3	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITek Inc. v1.0.0.0 - File: C:\Users\joe\Documents\221102.dwg

ID: Pmal1Jn0odbAt7yg9cdwkOzg39-2KFpXLdanSONi99-br1SH-CeJ-ZaoPMst115cayquii

Oswald Cement Services Department

Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 10=408(F) 21=406(F) 22=406(F) 23=407(F) 24=407(F) 25=407(F) 26=407(F) 27=407(F) 28=407(F) 29=407(F) 30=408(F) 31=408(F) 32=408(F) 33=408(F)
 34=409(F) 35=409(F) 36=409(F) 37=405(F)

Trapezoidal Loads (plf)

Vert: 1=-182-to-16=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 7-16=-70, 8-14=-20

Concentrated Loads (lb)

Vert: 10=-481(F) 21=-480(F) 22=-480(F) 23=-480(F) 24=-480(F) 25=-480(F) 26=-480(F) 27=-480(F) 28=-480(F) 29=-481(F) 30=-481(F) 31=-481(F) 32=-481(F)
 33=-481(F) 34=-481(F) 35=-481(F) 36=-481(F) 37=-486(F)

Trapezoidal Loads (plf)

Vert: 1=-231-to-16=-70

43) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-14=-25, 1-15=-45, 7-16=-61, 8-14=-20

Horz: 1-14=25, 1-15=45, 1-7=1, 7-8=7

Concentrated Loads (lb)

Vert: 10=-745(F) 21=-745(F) 22=-745(F) 23=-745(F) 24=-745(F) 25=-745(F) 26=-745(F) 27=-745(F) 28=-745(F) 29=-745(F) 30=-745(F) 31=-745(F) 32=-745(F)
 33=-745(F) 34=-745(F) 35=-745(F) 36=-745(F) 37=-749(F)

Trapezoidal Loads (plf)

Vert: 1=-182-to-16=-61

44) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-14=7, 1-15=45, 7-16=-61, 8-14=-20

Horz: 1-14=-7, 1-15=-45, 1-7=1, 7-8=-25

Concentrated Loads (lb)

Vert: 10=-745(F) 21=-745(F) 22=-745(F) 23=-745(F) 24=-745(F) 25=-745(F) 26=-745(F) 27=-745(F) 28=-745(F) 29=-745(F) 30=-745(F) 31=-745(F) 32=-745(F)
 33=-745(F) 34=-745(F) 35=-745(F) 36=-745(F) 37=-749(F)

Trapezoidal Loads (plf)

Vert: 1=-182-to-16=-61

45) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-14=12, 1-15=30, 7-16=-61, 8-14=-20

Horz: 1-14=-12, 1-15=-30, 1-7=1, 7-8=12

Concentrated Loads (lb)

Vert: 10=-745(F) 21=-745(F) 22=-745(F) 23=-745(F) 24=-745(F) 25=-745(F) 26=-745(F) 27=-745(F) 28=-745(F) 29=-745(F) 30=-745(F) 31=-745(F) 32=-745(F)
 33=-745(F) 34=-745(F) 35=-745(F) 36=-745(F) 37=-749(F)

Trapezoidal Loads (plf)

Vert: 1=-182-to-16=-61

46) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-14=12, 1-15=30, 7-16=-61, 8-14=-20

Horz: 1-14=-12, 1-15=-30, 1-7=1, 7-8=12

Concentrated Loads (lb)

Vert: 10=-745(F) 21=-745(F) 22=-745(F) 23=-745(F) 24=-745(F) 25=-745(F) 26=-745(F) 27=-745(F) 28=-745(F) 29=-745(F) 30=-745(F) 31=-745(F) 32=-745(F)
 33=-745(F) 34=-745(F) 35=-745(F) 36=-745(F) 37=-749(F)

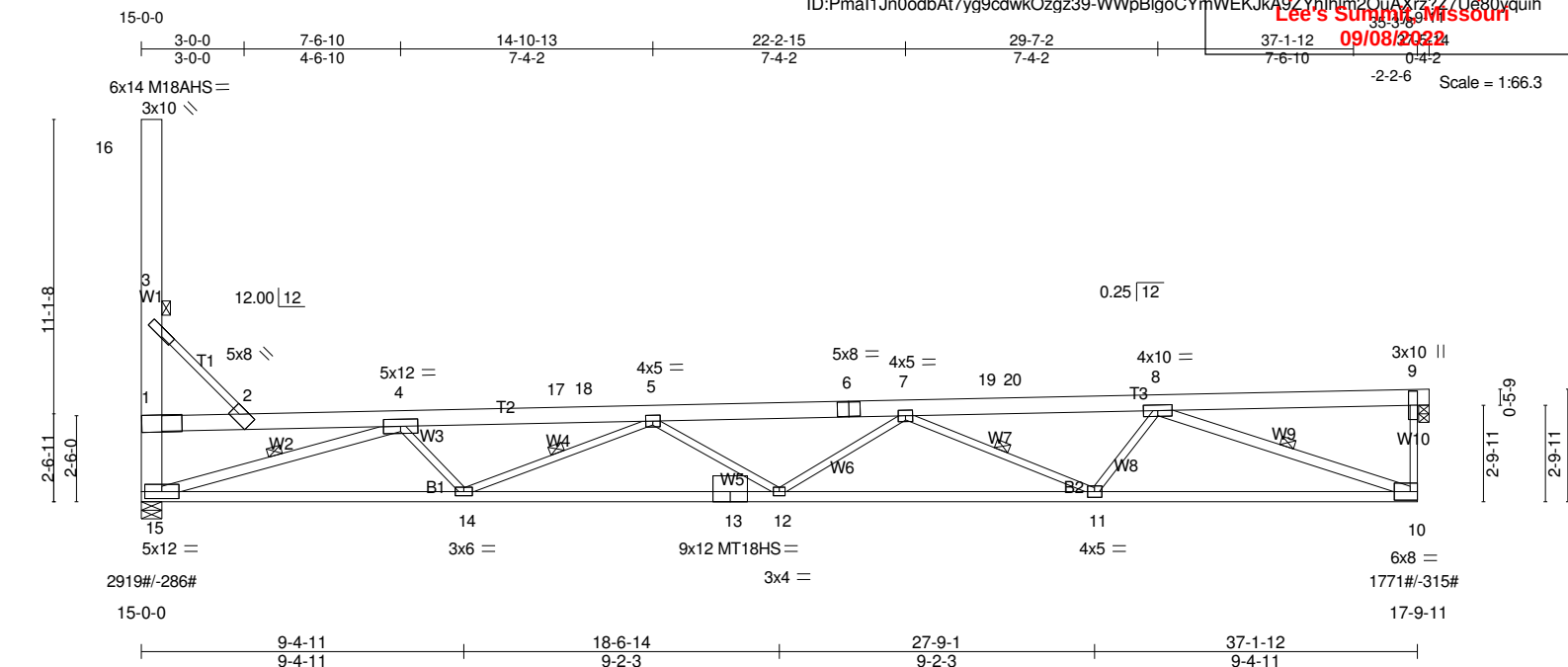
Trapezoidal Loads (plf)

Vert: 1=-182-to-16=-61

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	A2	Monopitch	16	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house File: C:\Users\jka92\Documents\2021\221102\221102.dwg ID:Pma1Jn0odbAt7yg9cdwkOzgz39-WWpBlgoCYmWEKJkA92YhIhm20uAXrz277Ue80yquih333694

Oswald County, Missouri
Lee's Summit, Missouri
09/08/2021

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.85	Vert(LL)	-0.63 12-14	MT20	197/144		
TCDL	15.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-1.24 12-14	M18AHS	142/136		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.05 9	MT18HS	197/144		
BCDL	10.0	Code IBC2018/TPI2014	NO	Matrix-S		Wind(LL)	0.50 12-14	Weight: 185 lb	FT = 10%		

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS, W2,W9: 2x4 SPF 2100F 1.8E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-9 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 3-15
10-0-0 oc bracing: 3-16
BOT CHORD Rigid ceiling directly applied or 5-8-2 oc bracing.
WEBS 1 Row at midpt 3-16, 4-15, 5-14, 7-11, 8-10

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

REACTIONS. (lb/size) 15=2919/0-7-4 (min. 0-3-11), 9=1771/0-3-10 (min. 0-2-12)
Max Horz 15=-589(LC 12)
Max Uplift 15=-286(LC 10), 9=-315(LC 11)

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

TOP CHORD 1-15=-1297/264, 1-3=-995/586, 1-2=-1545/622, 2-4=-1567/1005, 4-17=-6277/1692,
17-18=-6269/1693, 5-18=-6268/1694, 5-6=-6871/1429, 6-7=-6863/1430, 7-19=-4692/856,
19-20=-4687/856, 8-20=-4687/857, 9-10=-257/1543, 2-3=-799/1214
BOT CHORD 14-15=-1879/5948, 13-14=-1742/7111, 12-13=-1742/7111, 11-12=-1422/6378,
10-11=-850/4020
WEBS 4-15=-5111/826, 4-14=-214/983, 5-14=-1426/698, 5-12=-344/288, 7-12=-96/642,
7-11=-1868/551, 8-11=-131/1193, 8-10=-4238/877

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 10 = 0.00, 11 = 0.00, 12 = 0.00, 13 = 0.00, 14 = 0.00 and 15 = 0.00

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-13, Interior(1) 3-1-13 to 37-0-8 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
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 15 and 315 lb uplift at joint 9.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Inc. Distribution: Fci Aug 5 10 01 11 2022 Department: 9
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intended use of this trust.

11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: $9-17=-70$, $10-15=-20$

Vert: 1=-166-to-2=-125, 2=-195-to-17=-70, 3=-236-to-2=-195

Vert: $9-17=-60$, $10-15=-20$

Vert: 1=-124-to-2=-94, 2=-154-to-17=-60, 3=-184-to-2=-154

Vert: $9-17=-61$, $10-15=-20$

Vert: 1=-124-to-2=-94, 2=-155-to-17=-61, 3=-175-to-2=-145

Vert: $9-17=-61$, $10-15=-20$

Vert: 1=-124-to-2=-94, 2=-155-to-17=-61, 3=-199-to-2=-168

Vert: $9-17=-61$, $10-15=-20$

Vert: 1=-124-to-2=-94 2=-155-to-17=-61 3=-185-to-2=-155

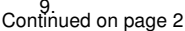
Vert: $9-17=-61$, $10-15=-20$

Vert: 1=-124-to-2=-94 2=-155-to-17=-61 3=-185-to-2=-155

Vert: 0 17 30 10 15 20

Vertical Loads (plf)

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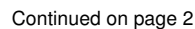
Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTekInstruments Inc Fri Aug 5 19:44:39 2020 Page 2
ID:Pma1Jn0odbAt7yg9cdwkOzgz39-_iNay0pqJ4e4xTJNIG3gwHwXoDdGG89nECgSvquig

15) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

zoidal Loads (plf)

Development Services Department
Lee's Summit, Missouri

Scale = 1:60.8



Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A3	Monopitch Supported Gable	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek International, Inc. File: C:\Users\james.lee\Desktop\221102.dwg

ID: Pma1Jn0odbAt7yg9cdwkOzgz39-tUc4oOsLN19WQ4d8x68s?KSqMPo?CIWlIPCPbDyquic

Oswaldment Services Department
Lee's Summit, Missouri

09/08/2022

NOTES-

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 22-0-8, Corner(3) 22-0-8 to 37-0-8 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
- 4) 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.
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 4x5 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 3-6-0 tall by 2-0-0 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) 41, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39 except (jt=lb) 22=521, 40=555.
- 14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 15) Load case(s) 1, 4, 19, 20, 21, 22, 29, 30, 55, 56, 57, 58, 59, 60, 61, 62 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 16) This truss has been designed for a total drag load of 200 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 37-1-12 for 200.0 plf.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 21-42=-70, 22-41=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-240-to-42=-70
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 21-42=-60, 22-41=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-187-to-42=-60
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 21-42=-61, 22-41=-20
 - Horz: 1-41=25, 1-21=1, 21-22=7
 - Trapezoidal Loads (plf)
 - Vert: 1=-188-to-42=-61
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 21-42=-61, 22-41=-20
 - Horz: 1-41=-7, 1-21=1, 21-22=-25
 - Trapezoidal Loads (plf)
 - Vert: 1=-188-to-42=-61
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 21-42=-61, 22-41=-20
 - Horz: 1-41=-12, 1-21=1, 21-22=12
 - Trapezoidal Loads (plf)
 - Vert: 1=-188-to-42=-61
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 21-42=-61, 22-41=-20
 - Horz: 1-41=-12, 1-21=1, 21-22=12
 - Trapezoidal Loads (plf)
 - Vert: 1=-188-to-42=-61
- 29) Dead + 0.75 Snow (balanced) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 21-42=-57, 22-41=-20
 - Horz: 1-2=7200, 2-7=7200, 7-42=7200, 42-43=7200, 8-43=7200, 8-10=7200, 10-11=7200, 11-12=7200, 12-13=7200, 13-44=7200, 14-44=7200, 14-45=7200, 15-45=7200, 15-20=7200, 20-21=7200
 - Drag: 22-41=-150
 - Trapezoidal Loads (plf)
 - Vert: 1=-184-to-42=-57
- 30) Dead + 0.75 Snow (balanced) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
 - Uniform Loads (plf)
 - Vert: 21-42=-63, 22-41=-20
 - Horz: 1-2=-7200, 2-7=-7200, 7-42=-7200, 42-43=-7200, 8-43=-7200, 8-10=-7200, 10-11=-7200, 11-12=-7200, 12-13=-7200, 13-44=-7200, 14-44=-7200, 14-45=-7200, 15-45=-7200, 15-20=-7200, 20-21=-7200
 - Drag: 22-41=150
 - Trapezoidal Loads (plf)
 - Vert: 1=-191-to-42=-63
- 55) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Wheeler Lumber, Waverly, KS 66871

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Lee's Summit, Missouri

Development Services Department
Lee's Summit, Missouri
09/08/2022

Uniform Loads (plf)
 Vert: 21-42=-58, 22-41=-20
 Horz: 1-41=25, 1-2=7201, 2-7=7201, 7-42=7201, 42-43=7201, 8-43=7201, 8-10=7201, 10-11=7201, 11-12=7201, 12-13=7201, 13-44=7201, 14-44=7201, 14-45=7201, 15-45=7201, 15-20=7201, 20-21=7201, 21-22=7
 Drag: 22-41=-150

Trapezoidal Loads (plf)
 Vert: 1=-185-to-42=-58

56) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
 Vert: 21-42=-64, 22-41=-20
 Horz: 1-41=25, 1-2=-7199, 2-7=-7199, 7-42=-7199, 42-43=-7199, 8-43=-7199, 8-10=-7199, 10-11=-7199, 11-12=-7199, 12-13=-7199, 13-44=-7199, 14-44=-7199, 14-45=-7199, 15-45=-7199, 15-20=-7199, 20-21=-7199, 21-22=7
 Drag: 22-41=150

Trapezoidal Loads (plf)
 Vert: 1=-191-to-42=-64

57) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
 Vert: 21-42=-58, 22-41=-20
 Horz: 1-41=-7, 1-2=7201, 2-7=7201, 7-42=7201, 42-43=7201, 8-43=7201, 8-10=7201, 10-11=7201, 11-12=7201, 12-13=7201, 13-44=7201, 14-44=7201, 14-45=7201, 15-45=7201, 15-20=7201, 20-21=7201, 21-22=-25
 Drag: 22-41=-150

Trapezoidal Loads (plf)
 Vert: 1=-185-to-42=-58

58) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
 Vert: 21-42=-64, 22-41=-20
 Horz: 1-41=-7, 1-2=-7199, 2-7=-7199, 7-42=-7199, 42-43=-7199, 8-43=-7199, 8-10=-7199, 10-11=-7199, 11-12=-7199, 12-13=-7199, 13-44=-7199, 14-44=-7199, 14-45=-7199, 15-45=-7199, 15-20=-7199, 20-21=-7199, 21-22=-25
 Drag: 22-41=150

Trapezoidal Loads (plf)
 Vert: 1=-191-to-42=-64

59) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
 Vert: 21-42=-58, 22-41=-20
 Horz: 1-41=-12, 1-2=7201, 2-7=7201, 7-42=7201, 42-43=7201, 8-43=7201, 8-10=7201, 10-11=7201, 11-12=7201, 12-13=7201, 13-44=7201, 14-44=7201, 14-45=7201, 15-45=7201, 15-20=7201, 20-21=7201, 21-22=12
 Drag: 22-41=-150

Trapezoidal Loads (plf)
 Vert: 1=-185-to-42=-58

60) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
 Vert: 21-42=-64, 22-41=-20
 Horz: 1-41=-12, 1-2=-7199, 2-7=-7199, 7-42=-7199, 42-43=-7199, 8-43=-7199, 8-10=-7199, 10-11=-7199, 11-12=-7199, 12-13=-7199, 13-44=-7199, 14-44=-7199, 14-45=-7199, 15-45=-7199, 15-20=-7199, 20-21=-7199, 21-22=12
 Drag: 22-41=150

Trapezoidal Loads (plf)
 Vert: 1=-191-to-42=-64

61) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
 Vert: 21-42=-58, 22-41=-20
 Horz: 1-41=-12, 1-2=7201, 2-7=7201, 7-42=7201, 42-43=7201, 8-43=7201, 8-10=7201, 10-11=7201, 11-12=7201, 12-13=7201, 13-44=7201, 14-44=7201, 14-45=7201, 15-45=7201, 15-20=7201, 20-21=7201, 21-22=12
 Drag: 22-41=-150

Trapezoidal Loads (plf)
 Vert: 1=-185-to-42=-58

62) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel) + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Uniform Loads (plf)
 Vert: 21-42=-64, 22-41=-20
 Horz: 1-41=-12, 1-2=-7199, 2-7=-7199, 7-42=-7199, 42-43=-7199, 8-43=-7199, 8-10=-7199, 10-11=-7199, 11-12=-7199, 12-13=-7199, 13-44=-7199, 14-44=-7199, 14-45=-7199, 15-45=-7199, 15-20=-7199, 20-21=-7199, 21-22=12
 Drag: 22-41=150

Trapezoidal Loads (plf)
 Vert: 1=-191-to-42=-64

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	A4	MONOPITCH GIRDER	1	3		

Wheeler Lumber, Waverly, KS 66871

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Designated Services Department

Lee's Summit, Missouri

09/08/2022

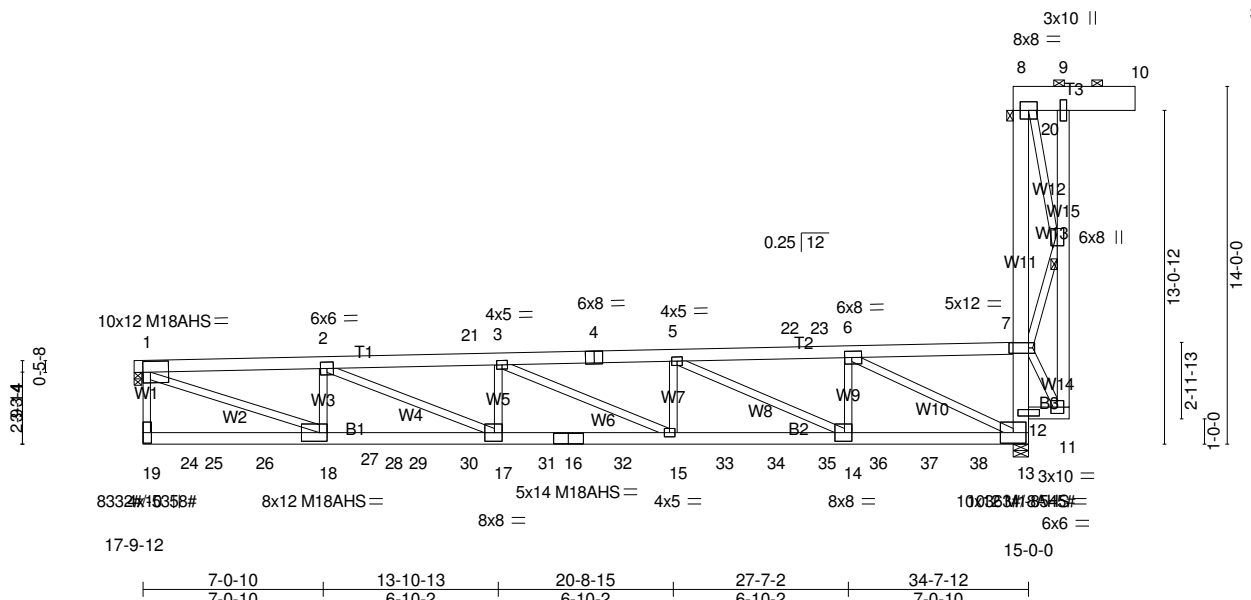


Plate Offsets (X,Y)--	[1:0-3-8,0-5-0], [4:0-4-0,Edge], [6:0-3-8,0-3-0], [7:0-9-4,0-2-8], [14:0-3-8,0-4-0], [17:0-3-8,0-4-0], [18:0-3-8,0-4-0], [20:0-1-4,0-3-0]
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LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Plate Grip DOL 1.15	BC 0.78	Vert(LL) 0.63 15-17 >648 240	M18AHS	142/136
BCLL 0.0 *	Lumber DOL 1.15	WB 0.98	Vert(CT) -0.76 15-17 >541 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) -0.02 1 n/a n/a		
	Code IBC2018/TPI2014			Weight: 895 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.2 *Except* T3: 2x12 SP No.2, T1: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-12, 8-10. Except: 6-0-0 oc bracing: 12-13 10-0-0 oc bracing: 7-8
BOT CHORD 2x6 SPF No.2 *Except* B1: 2x6 SPF 1650F 1.4E, B2: 2x6 SP DSS	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* W11: 2x8 SP DSS, W15: 2x6 SPF No.2	JOINTS 1 Brace at Jt(s): 8, 20

REACTIONS. (lb/size) 1=5142/0-3-10 (min. 0-3-4), 13=4250/0-7-4 (min. 0-4-2)
Max Horz 13=584(LC 42)
Max Uplift1=-5358(LC 10), 13=-8545(LC 11)
Max Grav1=8332(LC 50), 13=10363(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-1005/1396, 1-2=-15765/9967, 2-21=-22126/14608, 3-21=-22119/14609, 3-4=-20906/15152, 4-5=-20902/15153, 5-22=-14506/11261, 22-23=-14504/11261, 6-23=-14503/11262, 6-7=-1990/1821, 12-13=-604/387, 7-12=-571/336, 7-8=-424/429, 11-20=-1178/1346, 9-20=-422/257
BOT CHORD 19-24=-234/314, 24-25=-234/314, 25-26=-234/314, 26-27=-234/314, 18-27=-234/314, 18-28=-10014/15776, 28-29=-10014/15776, 29-30=-10014/15776, 17-30=-10014/15776, 17-31=-14651/22137, 16-31=-14651/22137, 16-32=-14651/22137, 15-32=-14651/22137, 15-33=-15189/20918, 33-34=-15189/20918, 34-35=-15189/20918, 14-35=-15189/20918, 14-36=-11294/14527, 36-37=-11294/14527, 37-38=-11294/14527, 13-38=-11294/14527, 11-12=-723/814
WEBS 1-18=-10564/16707, 2-18=-3211/2230, 2-17=-5053/7100, 3-17=-379/768, 3-15=-1683/0, 5-15=-1891/2995, 5-14=-7699/4628, 6-14=-5097/6726, 6-13=-14684/11067, 7-11=-1596/1371, 7-20=-988/918, 8-20=-470/386

JOINT STRESS INDEX
1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 11 = 0.00, 12 = 0.00, 13 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00, 18 = 0.00, 19 = 0.00 and 20 = 0.00

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-7-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc, 2x12 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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

Continued on page 2

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4) TLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ci=1.00

- Cat C: Partially Exp.; Ce=1.0; Cs=1.00:

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

- Uniform Loads (plf)
Vert: 1-7=-70, 13-19=-20, 11-12=-20, 8-9=-70, 9-10=-70
- Concentrated Loads (lb)
Vert: 16=-327(F) 15=-327(F) 24=-487(F) 25=-481(F) 26=-482(F) 27=-482(F) 28=-482(F) 29=-393(F) 30=-394(F) 31=-327(F) 32=-327(F) 33=-327(F) 34=-327(F)
35=-327(F) 36=-327(F) 37=-327(F) 38=171(F)

Wheeler Lumber, Waverly, KS 66871

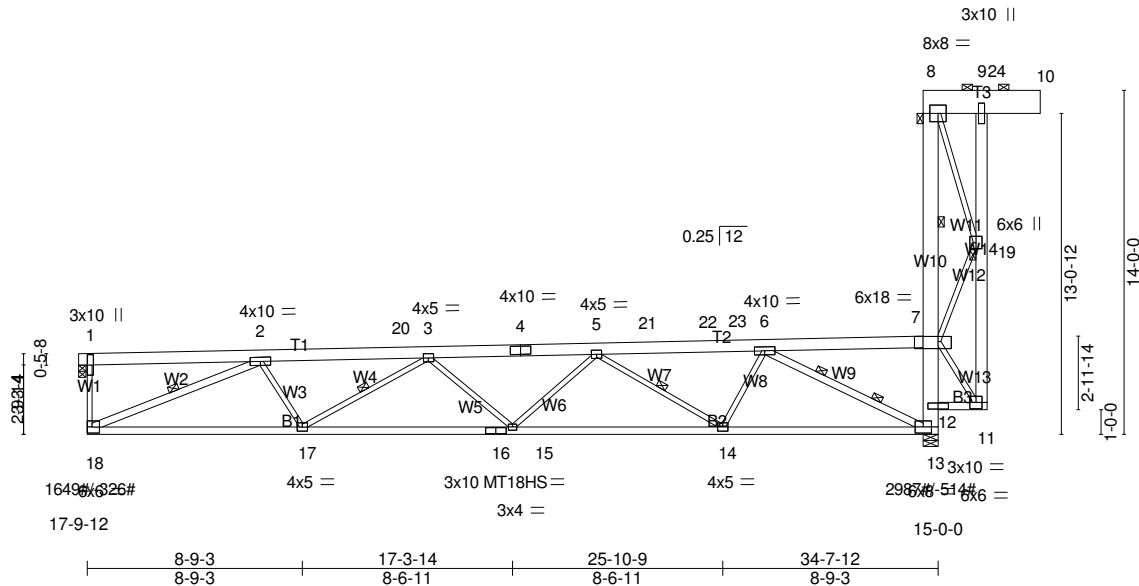
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27-7-2 34-7-12 15-5-13

Development, Serial ID: 00000000000000000000000000000000
Lee's Summit, Missouri

09/08/2022

Scale = 1:93.8

Plate Offsets (X,Y)-- [1:0-5-0,0-0-0], [7:0-11-8,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.30 15 >999 360	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.60 14-15 >688 240	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.98	Horz(CT) -0.06 1 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) 0.25 15 >999 240	Weight: 238 lb	FT = 10%

TOP CHORD 2x6 SPF No.2 *Except*
T3: 2x12 SP No.2
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
B3: 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W10: 2x8 SP DSS, W2, W9: 2x4 SPF No.2, W14: 2x6 SPF No.2

TOP CHORD	Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-12, 8-10. Except: 6-0-0 oc bracing: 12-13, 7-8
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-8, 2-18, 3-17, 5-14 2 Rows at 1/3 pts 6-13
JOINTS	1 Brace at Jt(s): 8, 19

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

REACTIONS. (lb/size) 1=1649/0-3-10 (min. 0-2-9), 13=2987/0-7-4 (min. 0-3-13)
Max Horz 13=588(LC 11)
Max Uplift1=326(LC 10), 13=514(LC 11)

TOP CHORD 1-18=248/1433, 2-20=3555/674, 3-20=3546/675, 3-4=4578/979, 4-5=4572/980,
5-21=3791/1030, 21-22=3787/1030, 22-23=3785/1031, 6-23=3781/1031, 6-7=1119/1018,
12-13=1177/318, 7-12=1151/276, 7-8=341/353, 11-19=910/1037, 9-19=352/205

BOT CHORD 17-18=686/3121, 16-17=1008/4481, 15-16=1008/4481, 14-15=1133/4487,
13-14=1102/3517, 11-12=691/764

WEBS 2-18=3370/722, 2-17=71/875, 3-17=1098/338, 5-15=49/361, 5-14=1185/342,
6-14=89/919, 6-13=3775/530, 7-11=1307/1145, 7-19=755/707, 8-19=410/345

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 11 = 0.00, 12 = 0.00, 13 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00, 18 = 0.00 and 19 = 0.00

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=326.

13=514.
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	A5	MONOPITCH	4	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek International, Inc. File: C:\Users\jason\Desktop\221102\221102.dwg

ID: Pmal1Jn0odbAt7yg9cdwkOzg39-H3lDQPuDgDX5HYLjdErZcN4AZdhAPRvBPNO3QYyquIZ

Oswald County, Missouri
Lee's Summit, Missouri

09/08/2022

NOTES-

- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 11) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-21=-70, 13-18=-20, 11-12=-20, 9-24=-70, 9-10=-70
 Trapezoidal Loads (plf)
 Vert: 21=-70-to-7=-265, 8=-265-to-24=-270
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-21=-60, 13-18=-20, 11-12=-20, 9-24=-60, 9-10=-60
 Trapezoidal Loads (plf)
 Vert: 21=-60-to-7=-206, 8=-206-to-24=-210
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-21=-30, 13-18=-20, 11-12=-20, 9-24=-30, 9-10=-70
 Trapezoidal Loads (plf)
 Vert: 21=-30-to-7=-225, 8=-225-to-24=-230
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-21=-61, 13-18=-20, 11-12=-20, 9-24=-61, 9-10=-56
 Horz: 1-18=25, 1-7=1, 12-13=17, 7-8=25, 9-11=7
 Trapezoidal Loads (plf)
 Vert: 21=-61-to-7=-207, 8=-207-to-24=-211
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-21=-61, 13-18=-20, 11-12=-0, 9-24=-61, 9-10=-56
 Horz: 1-18=-7, 1-7=1, 12-13=-14, 7-8=-7, 9-11=-25
 Trapezoidal Loads (plf)
 Vert: 21=-61-to-7=-207, 8=-207-to-24=-211
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-21=-61, 13-18=-20, 11-12=-20, 9-24=-61, 9-10=-56
 Horz: 1-18=-12, 1-7=1, 12-13=22, 7-8=-12, 9-11=12
 Trapezoidal Loads (plf)
 Vert: 21=-61-to-7=-207, 8=-207-to-24=-211
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-21=-61, 13-18=-20, 11-12=-0, 9-24=-61, 9-10=-56
 Horz: 1-18=-12, 1-7=1, 12-13=22, 7-8=-12, 9-11=12
 Trapezoidal Loads (plf)
 Vert: 21=-61-to-7=-207, 8=-207-to-24=-211
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-21=-70, 13-18=-20, 11-12=-20, 9-24=-70, 9-10=-70
 Trapezoidal Loads (plf)
 Vert: 21=-70-to-7=-265, 8=-265-to-24=-270

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	A5A	MONOPITCH	2	1		

Wheeler Lumber, Waverly, KS 66871

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Development Services Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:93.8

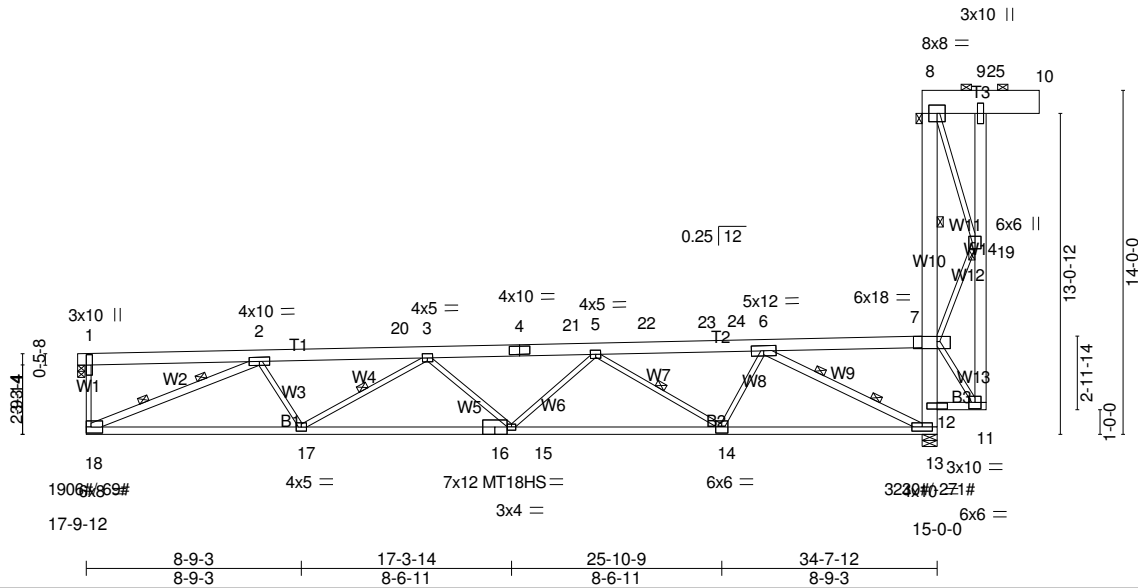


Plate Offsets (X,Y)-- [1:0-5-0,0-0-0], [7:0-11-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.86	Vert(LL) -0.30	15	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.72	15-17	>573	240	MT18HS	197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.95	Horz(CT) -0.07	1	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) 0.25	15	>999	240		
							Weight: 238 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T3: 2x12 SP No.2
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
B3: 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W10: 2x8 SP DSS, W2,W9: 2x4 SPF No.2, W14: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-5-12 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 7-12, 8-10. Except: 6-0-0 oc bracing: 12-13, 7-8
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 3-17, 5-14
2 Rows at 1/3 pts 2-18, 6-13
1 Brace at Jt(s): 8, 19

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

REACTIONS. (lb/size) 1=1906/0-3-10 (min. 0-3-0), 13=3230/0-7-4 (min. 0-4-2)
Max Horz 13=588(LC 11)
Max Uplift1=-69(LC 10), 13=-271(LC 11)

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

TOP CHORD 1-18=0/1686, 2-20=-4272/0, 3-20=-4263/0, 3-4=-5643/0, 4-21=-5637/0, 5-21=-5629/0, 5-22=-4387/434, 22-23=-4382/434, 23-24=-4381/435, 6-24=-4377/435, 6-7=-1125/1013, 12-13=-1184/311, 7-12=-1158/268, 7-8=-341/352, 11-19=-908/1039, 9-19=-352/204
BOT CHORD 17-18=-109/3699, 16-17=0/5598, 15-16=0/5598, 14-15=-118/5502, 13-14=-640/3978, 11-12=-690/765
WEBS 2-18=-3998/94, 2-17=0/1159, 3-17=-1569/0, 5-15=0/430, 5-14=-1686/0, 6-14=0/1222, 6-13=-4287/17, 7-11=-1309/1143, 7-19=-757/706, 8-19=-408/346

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 11 = 0.00, 12 = 0.00, 13 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00, 18 = 0.00 and 19 = 0.00

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 500.0lb AC unit load placed on the top chord, 16-10-0 from left end, supported at two points, 5-6-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A5A	MONOPITCH	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: Feltus 6104143 288 B

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Development Services Department
Lee's Summit, Missouri

09/08/2022

NOTES-

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 13=271.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-70, 13-18=-20, 11-12=-20, 9-25=-70, 9-10=-70
Concentrated Loads (lb)
Vert: 3=-250 21=-250
Trapezoidal Loads (plf)
Vert: 22=-70-to-7=-265, 8=-265-to-25=-270
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-60, 13-18=-20, 11-12=-20, 9-25=-60, 9-10=-60
Concentrated Loads (lb)
Vert: 3=-250 21=-250
Trapezoidal Loads (plf)
Vert: 22=-60-to-7=-206, 8=-206-to-25=-210
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-30, 13-18=-20, 11-12=-20, 9-25=-30, 9-10=-70
Concentrated Loads (lb)
Vert: 3=-250 21=-250
Trapezoidal Loads (plf)
Vert: 22=-30-to-7=-225, 8=-225-to-25=-230
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-22=-61, 13-18=-20, 11-12=-20, 9-25=-61, 9-10=-56
Horz: 1-18=25, 1-7=1, 12-13=17, 7-8=25, 9-11=7
Concentrated Loads (lb)
Vert: 3=-250 21=-250
Trapezoidal Loads (plf)
Vert: 22=-61-to-7=-207, 8=-207-to-25=-211
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-22=-61, 13-18=-20, 11-12=-0, 9-25=-61, 9-10=-56
Horz: 1-18=-7, 1-7=1, 12-13=-14, 7-8=7, 9-11=-25
Concentrated Loads (lb)
Vert: 3=-250 21=-250
Trapezoidal Loads (plf)
Vert: 22=-61-to-7=-207, 8=-207-to-25=-211
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-22=-61, 13-18=-20, 11-12=-20, 9-25=-61, 9-10=-56
Horz: 1-18=-12, 1-7=1, 12-13=22, 7-8=-12, 9-11=12
Concentrated Loads (lb)
Vert: 3=-250 21=-250
Trapezoidal Loads (plf)
Vert: 22=-61-to-7=-207, 8=-207-to-25=-211
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-22=-61, 13-18=-20, 11-12=-0, 9-25=-61, 9-10=-56
Horz: 1-18=-12, 1-7=1, 12-13=22, 7-8=-12, 9-11=12
Concentrated Loads (lb)
Vert: 3=-250 21=-250
Trapezoidal Loads (plf)
Vert: 22=-61-to-7=-207, 8=-207-to-25=-211
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-70, 13-18=-20, 11-12=-20, 9-25=-70, 9-10=-70
Concentrated Loads (lb)
Vert: 3=-250 21=-250
Trapezoidal Loads (plf)
Vert: 22=-70-to-7=-265, 8=-265-to-25=-270

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	A6	MONOPITCH	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. Fri Aug 5 12:41:48 2023 Page: 1

ID:Pmal1Jn0odbAt7yg9cdwkOzgz39-DRQzr5wTCrnpXsv5kfi1ho9VaQMOtNplthvAUryquiX

6 29-6-5 36-7120-0 15-0-0 Lee's Summit, Missouri

5 7-3-15 7-1-7 09/08/2022

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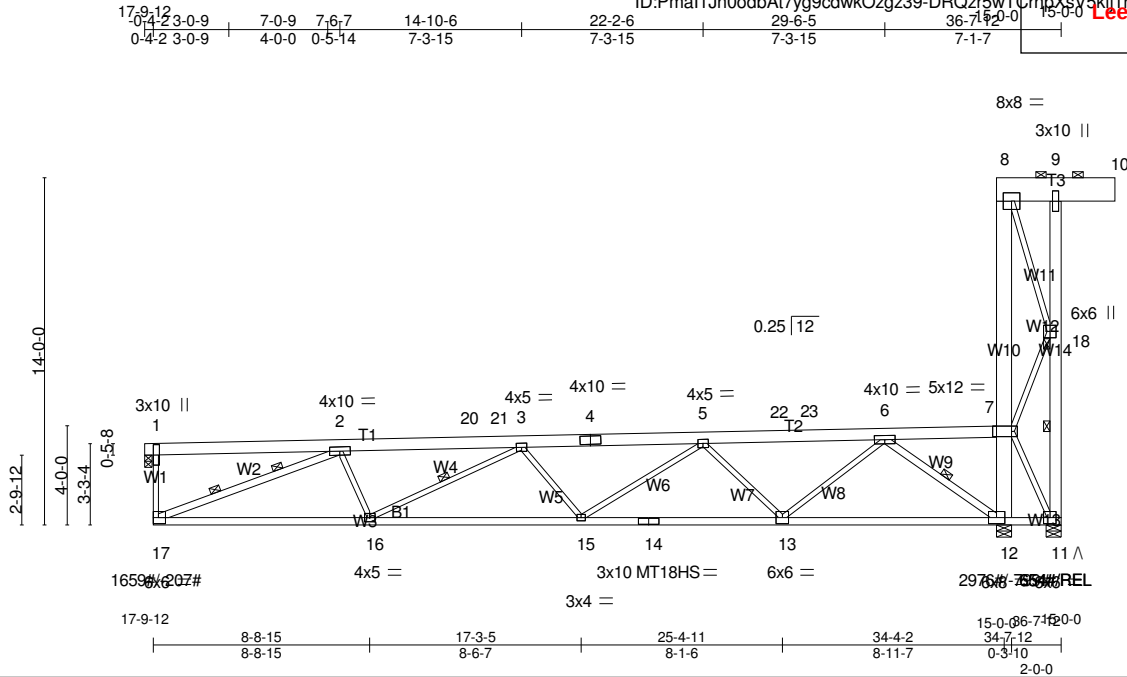


Plate Offsets (X,Y)-- [1:0-5-0,0-0-0], [7:0-9-4,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.30 15 >999 360	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.59 15-16 >695 240	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	-0.06 1 n/a n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	0.18 15-16 >999 240	Weight: 240 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T3: 2x12 SP No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except*
B2: 2x4 SPF 2400F 2.0E

WEBS 2x3 SPF No.2 *Except*
W14: 2x6 SPF No.2, W2,W9: 2x4 SPF No.2, W10: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-12, 8-10	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.	
WEBS	1 Row at midpt	11-18, 3-16, 6-12
	2 Rows at 1/3 pts	2-17
JOINTS	1 Brace at Jt(s): 18	

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

REACTIONS.

(lb/size) 1=1659/0-3-10 (min. 0-2-10), 11=0/0-7-4 (min. 0-1-8), 12=2976/0-7-4 (min. 0-3-8)
 Max Horz 12=674(LC 11)
 Max Uplift1=-207(LC 10), 11=REL, 12=-799(LC 10)
 Max Grav 1=1659(LC 1), 11=654(LC 10), 12=2976(LC 1)

FORCES.

1-17=-124/1431, 2-20=-3612/354, 20-21=-3604/355, 3-21=-3602/356, 3-4=-4647/358,
4-5=-4642/359, 5-22=-3785/151, 22-23=-3779/152, 6-23=-3778/153, 6-7=-1354/1164,
11-18=-1028/1206, 9-18=-342/182, 7-12=-830/678, 7-8=-418/409

BOT CHORD 16-17=-429/3325, 15-16=-490/4615, 14-15=-360/4457, 13-14=-360/4457, 12-13=-145/2891,
11-12=-544/618

WEBS 2-17=-3554/436, 2-16=0/766, 3-16=-1140/101, 5-15=-148/580, 5-13=-1067/353,
6-13=-235/1450, 6-12=-3386/509, 7-11=-1357/1141, 7-18=-741/672, 8-18=-474/432

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 11 = 0.00, 12 = 0.00, 13 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00 and 18 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=207,

12=799.
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Development Services Department Lee's Summit, Missouri 09/08/2022
221102	A6	MONOPITCH	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek International, Inc. File: 221102.dwg User: 66104145 Date: 8/16/2021
ID: Pmal1Jn0odbAt7yg9cdwkOzg39-DRQzr5wTCmpXsV5krl1h09VaQM0tNpLthvAURvquiX**NOTES-**

- 9) "A" indicates Released bearing: allow for upward movement at joint(s) 11.
 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 12) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-70, 11-17=-20, 8-9=-70, 9-10=-70
 Trapezoidal Loads (plf)
 Vert: 5=-68-to-7=-270
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 11-17=-20, 8-9=-60, 9-10=-60
 Trapezoidal Loads (plf)
 Vert: 5=-58-to-7=-210
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-30, 11-17=-20, 8-9=-30, 9-10=-70
 Trapezoidal Loads (plf)
 Vert: 5=-28-to-7=-230
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-5=-61, 11-17=-20, 8-9=-61, 9-10=-56
 Horz: 1-17=25, 1-7=1, 9-11=7, 7-8=30
 Trapezoidal Loads (plf)
 Vert: 5=-59-to-7=-211
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-5=-61, 11-17=-20, 8-9=-61, 9-10=-56
 Horz: 1-17=-7, 1-7=1, 9-11=-25, 7-8=-4
 Trapezoidal Loads (plf)
 Vert: 5=-59-to-7=-211
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-5=-61, 11-17=-20, 8-9=-61, 9-10=-56
 Horz: 1-17=-12, 1-7=1, 9-11=12, 7-8=6
 Trapezoidal Loads (plf)
 Vert: 5=-59-to-7=-211
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-5=-61, 11-17=-20, 8-9=-61, 9-10=-56
 Horz: 1-17=-12, 1-7=1, 9-11=12, 7-8=6
 Trapezoidal Loads (plf)
 Vert: 5=-59-to-7=-211
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-70, 11-17=-20, 8-9=-70, 9-10=-70
 Trapezoidal Loads (plf)
 Vert: 5=-68-to-7=-270

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	A6A	MONOPITCH	1	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. 2020 Release 2.0.0

ID: Pma11Jn00dbAt7yg9cdwkOzg39-iezM2Rx6z8vg8?41MEGE?if3gggcrXd5L1f1tvguiW

Oswald County, Missouri

Lee's Summit, Missouri

09/08/2022

Scale = 1:93.0

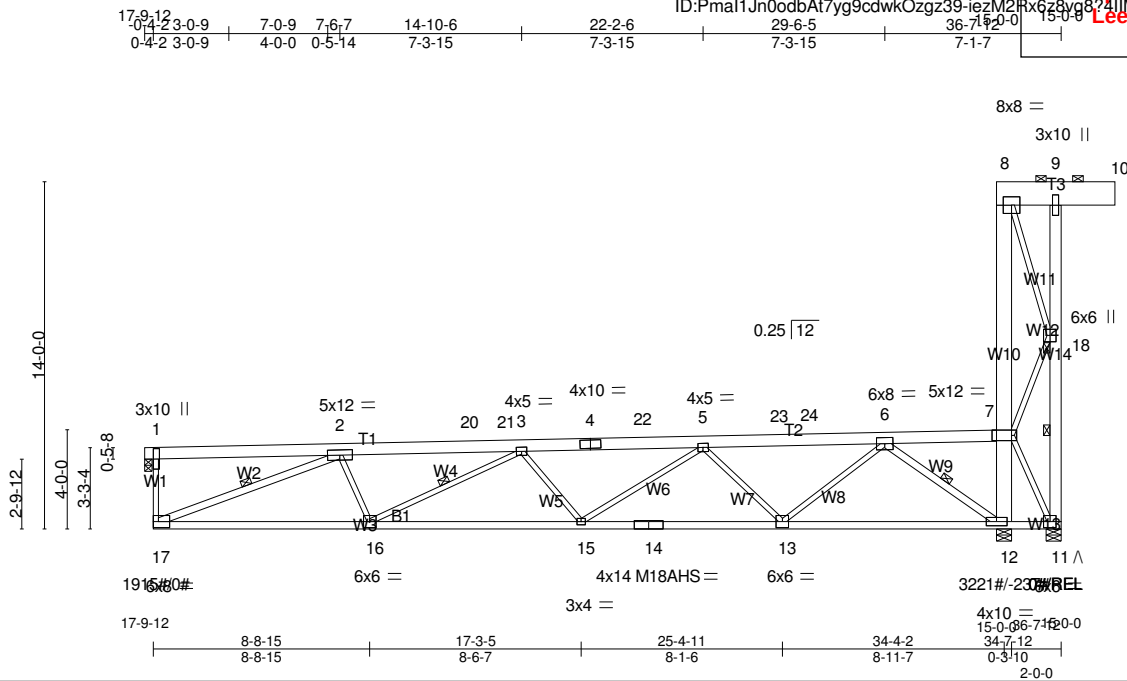


Plate Offsets (X,Y)-- [1:0-5-0,0-0-0], [7:0-9-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.29 15	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.69 15-16	>594	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.79	Horz(CT)	-0.06 1	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	0.20 15-16	>999	240		
								Weight: 240 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T3: 2x12 SP No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except*
B2: 2x4 SPF 2400F 2.0E

WEBS 2x3 SPF No.2 *Except*
W14: 2x6 SPF No.2, W2: 2x4 SPF 2100F 1.8E, W9: 2x4 SPF No.2
W10: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-12, 8-10.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.

WEBS 1 Row at midpt 11-18, 2-17, 3-16, 6-12

JOINTS 1 Brace at Jt(s): 18

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

REACTIONS. (lb/size) 1=1915/0-3-10 (min. 0-3-0), 11=0/0-7-4 (min. 0-1-8), 12=3221/0-7-4 (min. 0-3-13)

Max Horz 12=673(LC 11)

Max Uplift 11=REL, 12=-237(LC 11)

Max Grav 1=1915(LC 1), 12=3221(LC 1)

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

TOP CHORD 1-17=0/1688, 2-20=-4329/0, 20-21=-4321/0, 3-21=-4314/0, 3-4=-5727/0, 4-22=-5720/0, 5-22=-5715/0, 5-23=-4437/0, 23-24=-4430/0, 6-24=-4430/0, 6-7=-1360/1158, 11-18=-1026/1208, 9-18=-343/181, 7-12=-843/219, 7-8=-419/408

BOT CHORD 16-17=0/3949, 15-16=0/5776, 14-15=0/5374, 13-14=0/5374, 12-13=-105/3212, 11-12=-542/619

WEBS 2-17=-4229/0, 2-16=0/1018, 3-16=-1642/0, 3-15=-349/83, 5-15=0/775, 5-13=-1454/0, 6-13=0/1883, 6-12=-3776/117, 7-11=-1359/1139, 7-18=-743/669, 8-18=-472/434

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 11 = 0.00, 12 = 0.00, 13 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00 and 18 = 0.00

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 500.0lb AC unit load placed on the top chord, 16-10-0 from left end, supported at two points, 5-6-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 12=237.
- "A" indicates Released bearing: allow for upward movement at joint(s) 11.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A6A	MONOPITCH	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITek Inc. 1000 S. 10th St. P.O. Box 220, Potosi, MO 64424

ID: Pma11Jn0odbAt7yg9cdwkOzg39-iezM2Rrx6z8vg8?41IMEGE?if3gggcrXdsL1f1tvguiW

Development Services Department

Lee's Summit, Missouri

09/08/2022

NOTES-

- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-70, 11-17=-20, 8-9=-70, 9-10=-70
 - Concentrated Loads (lb)
 - Vert: 21=-250 22=-250
 - Trapezoidal Loads (plf)
 - Vert: 5=-68-to-7=-270
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-60, 11-17=-20, 8-9=-60, 9-10=-60
 - Concentrated Loads (lb)
 - Vert: 21=-250 22=-250
 - Trapezoidal Loads (plf)
 - Vert: 5=-58-to-7=-210
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-30, 11-17=-20, 8-9=-30, 9-10=-70
 - Concentrated Loads (lb)
 - Vert: 21=-250 22=-250
 - Trapezoidal Loads (plf)
 - Vert: 5=-28-to-7=-230
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-5=-61, 11-17=-20, 8-9=-61, 9-10=-56
 - Horz: 1-17=25, 1-7=1, 9-11=7, 7-8=30
 - Concentrated Loads (lb)
 - Vert: 21=-250 22=-250
 - Trapezoidal Loads (plf)
 - Vert: 5=-59-to-7=-211
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-5=-61, 11-17=-20, 8-9=-61, 9-10=-56
 - Horz: 1-17=-7, 1-7=1, 9-11=-25, 7-8=-4
 - Concentrated Loads (lb)
 - Vert: 21=-250 22=-250
 - Trapezoidal Loads (plf)
 - Vert: 5=-59-to-7=-211
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-5=-61, 11-17=-20, 8-9=-61, 9-10=-56
 - Horz: 1-17=-12, 1-7=1, 9-11=12, 7-8=6
 - Concentrated Loads (lb)
 - Vert: 21=-250 22=-250
 - Trapezoidal Loads (plf)
 - Vert: 5=-59-to-7=-211
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 1-5=-61, 11-17=-20, 8-9=-61, 9-10=-56
 - Horz: 1-17=-12, 1-7=1, 9-11=12, 7-8=6
 - Concentrated Loads (lb)
 - Vert: 21=-250 22=-250
 - Trapezoidal Loads (plf)
 - Vert: 5=-59-to-7=-211
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-70, 11-17=-20, 8-9=-70, 9-10=-70
 - Concentrated Loads (lb)
 - Vert: 21=-250 22=-250
 - Trapezoidal Loads (plf)
 - Vert: 5=-68-to-7=-270

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A7	Monopitch	7	1		
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)
Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In						Development Services Department
ID:Pma11Jn0odbAt7yg9cdwkOzg39-AqXkGnykjS1Xm9fUs4mVnDFgE3DLFcmKcDHZKyquiV						Lee's Summit, Missouri
17-9-12 0-4-2 7-0-10 13-10-13 20-8-15 27-7-2 6-10-2 7-0-10						09/08/2022

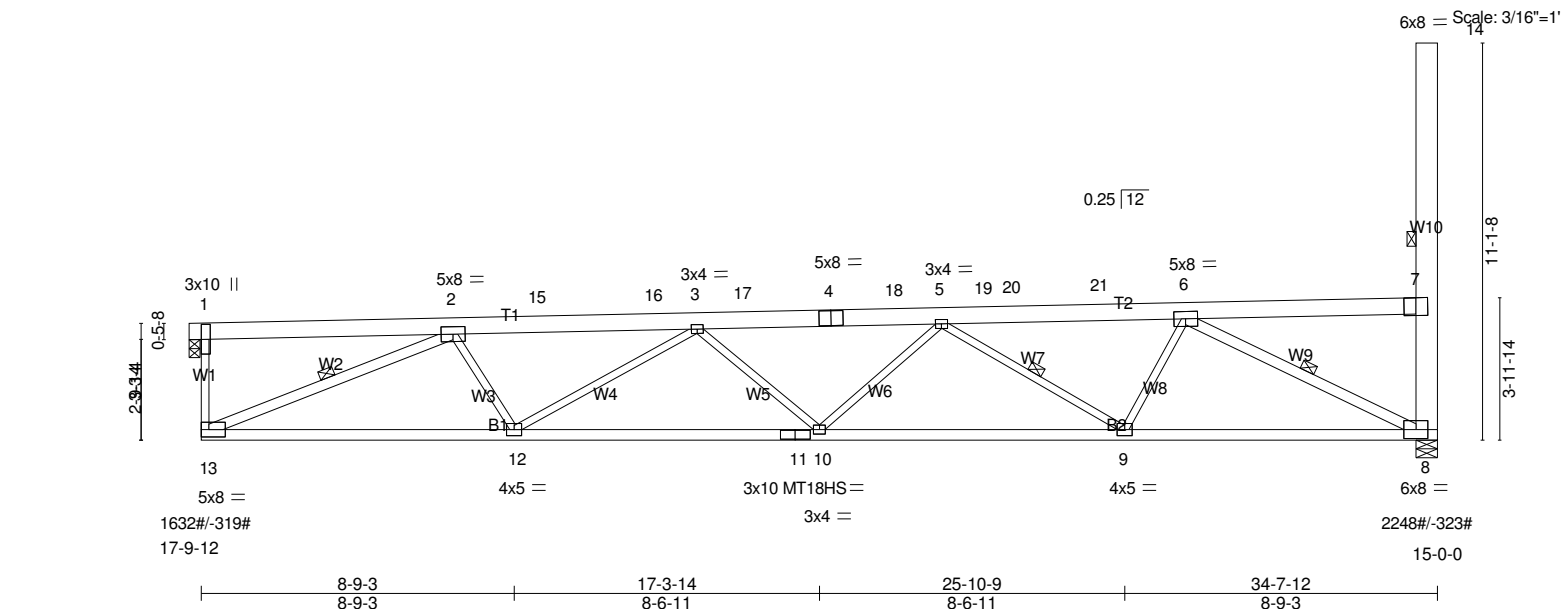


Plate Offsets (X,Y)-- [1:0-5-0,0-0-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	in (loc) l/defl L/d	GRIP
TCDL 15.0	Lumber DOL	1.15	BC 0.62	Vert(LL) -0.28 10 >999 360	MT20 197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB 1.00	Vert(CT) -0.58 9-10 >707 240	MT18HS 197/144
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Horz(CT) -0.06 1 n/a n/a	
				Wind(LL) 0.29 10 >999 240	Weight: 175 lb FT = 10%

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
W10: 2x8 SP 2400F 2.0E, W2,W9: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 7-8
8-2-0 oc bracing: 7-14
BOT CHORD Rigid ceiling directly applied or 5-0-6 oc bracing.
WEBS 1 Row at midpt 7-14, 2-13, 5-9, 6-8

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

REACTIONS. (lb/size) 1=1632/0-3-10 (min. 0-2-9), 8=2248/0-7-4 (min. 0-2-14)
Max Horz 8=603(LC 11)
Max Uplift 1=-319(LC 10), 8=-323(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-640/1416, 2-15=-3508/1674, 15-16=-3503/1674, 3-16=-3499/1675, 3-17=-4489/2269,
4-17=-4484/2270, 4-18=-4483/2270, 5-18=-4481/2270, 5-19=-3654/2008, 19-20=-3651/2008,
20-21=-3650/2008, 6-21=-3644/2009, 6-7=-1282/966, 7-8=-597/232
BOT CHORD 12-13=-1583/3083, 11-12=-2303/4408, 10-11=-2303/4408, 9-10=-2407/4384, 8-9=-1974/3373
WEBS 2-13=-3328/1691, 2-12=-279/856, 3-12=-1067/686, 3-10=-97/326, 5-10=-176/340,
5-9=-1151/864, 6-9=-406/899, 6-8=-3428/1440

JOINT STRESS INDEX
1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 10 = 0.00, 11 = 0.00, 12 = 0.00 and 13 = 0.00

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 19-4-2, Corner(3) 19-4-2 to 34-4-2 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
 - TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 1=319, 8=323.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
 - This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A7	Monopitch	7	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

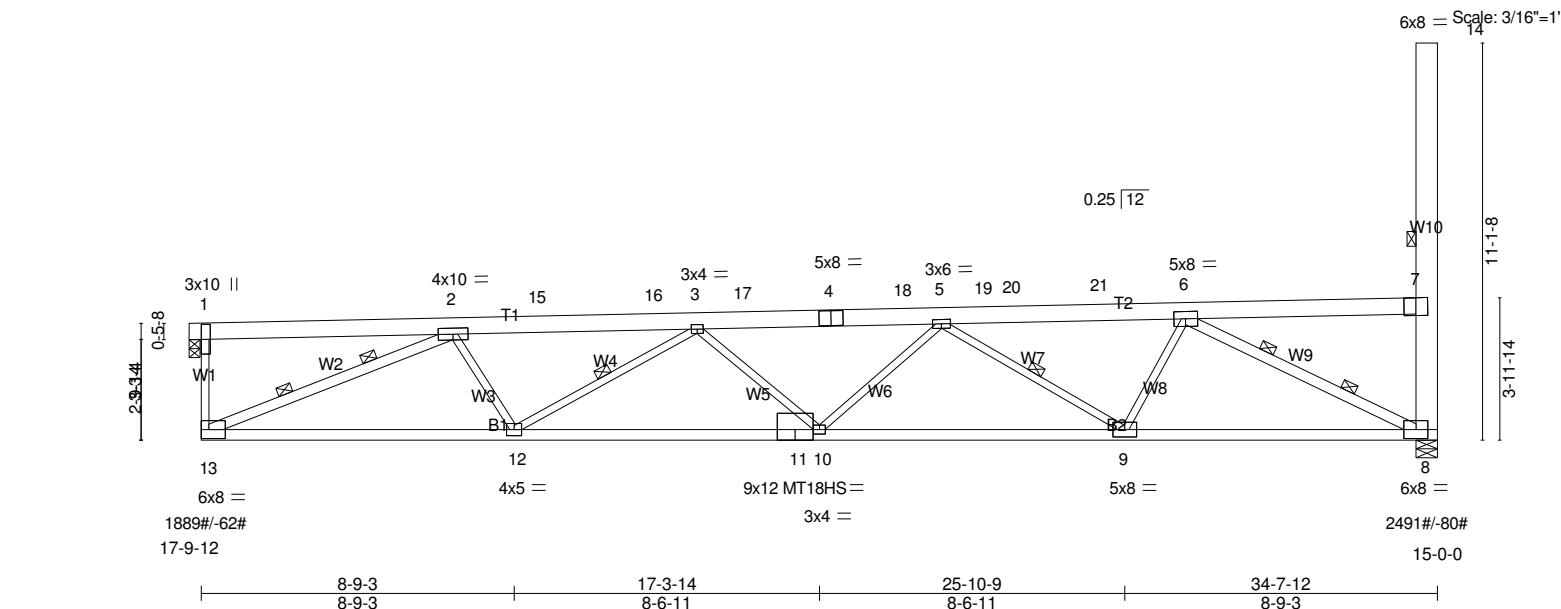
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Lee's Summit, Missouri
09/08/2022**NOTES-**

- 11) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-70, 8-13=-20
Trapezoidal Loads (plf)
Vert: 20=-70-to-7=-206
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-60, 8-13=-20
Trapezoidal Loads (plf)
Vert: 20=-60-to-7=-162
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-20=-61, 8-13=-20
Horz: 1-13=25, 1-7=1, 7-8=7, 7-14=45
Trapezoidal Loads (plf)
Vert: 20=-61-to-7=-163
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-20=-61, 8-13=-20
Horz: 1-13=-7, 1-7=1, 7-8=-25, 7-14=-45
Trapezoidal Loads (plf)
Vert: 20=-61-to-7=-163
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-20=-61, 8-13=-20
Horz: 1-13=-12, 1-7=1, 7-8=12, 7-14=30
Trapezoidal Loads (plf)
Vert: 20=-61-to-7=-163
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-20=-61, 8-13=-20
Horz: 1-13=-12, 1-7=1, 7-8=12, 7-14=30
Trapezoidal Loads (plf)
Vert: 20=-61-to-7=-163
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-70, 8-13=-20
Trapezoidal Loads (plf)
Vert: 20=-70-to-7=-206

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A7A	Monopitch	1	1		
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)
Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In 2.000 s Aug 16 2021						Released for Construction
ID: Pma11Jn0odbAt7yg9cdwkOzg39-e056T7yMU900JEgPhHkIQeJeNd4IGwZe8d5myquiU						Lee's Summit, Missouri
17-9-12 0-4-2 7-0-10 13-10-13 20-8-15 27-7-2 7-0-10						09/08/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.85	in (loc) l/defl L/d	MT20	197/144
TCDL 15.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.28 10 >999 360	MT18HS	197/144
BCLL 0.0 *	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.70 10-12 >584 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) -0.07 1 n/a n/a		
	Code IBC2018/TPI2014		Wind(LL) 0.29 10 >999 240		
				Weight: 175 lb	FT = 10%

LUMBER-
 TOP CHORD 2x6 SPF No.2
 BOT CHORD 2x4 SPF 2100F 1.8E
 WEBS 2x3 SPF No.2 *Except*
 W10: 2x8 SP 2400F 2.0E, W2,W9: 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-6-4 oc purlins, except end verticals. Except:
 6-0-0 oc bracing: 7-8
 8-2-0 oc bracing: 7-14
 BOT CHORD Rigid ceiling directly applied or 6-4-5 oc bracing.
 WEBS 1 Row at midpt 7-14, 3-12, 5-9
 2 Rows at 1/3 pts 2-13, 6-8

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

REACTIONS. (lb/size) 1=1889/0-3-10 (min. 0-2-15), 8=2491/0-7-4 (min. 0-3-3)
 Max Horz 8=603(LC 11)
 Max Uplift 1=62(LC 10), 8=80(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-13=-386/1669, 2-15=-4224/957, 15-16=-4219/957, 3-16=-4215/958, 3-17=-5554/1203,
 4-17=-5549/1203, 4-18=-5548/1204, 5-18=-5541/1209, 5-19=-4250/1411, 19-20=-4247/1411,
 20-21=-4245/1412, 6-21=-4240/1413, 6-7=-1287/961, 7-8=-604/224
 BOT CHORD 12-13=-1006/3660, 11-12=-1185/5524, 10-11=-1185/5524, 9-10=-1391/5399, 8-9=-1512/3835
 WEBS 2-13=-3956/1062, 2-12=0/1141, 3-12=-1538/215, 3-10=-168/254, 5-10=-107/409,
 5-9=-1651/363, 6-9=-102/1202, 6-8=-3941/927

JOINT STRESS INDEX
 1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 10 = 0.00, 11 = 0.00, 12 = 0.00 and 13 = 0.00

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 15-1-4, Exterior(2) 15-1-4 to 19-4-2, Corner(3) 19-4-2 to 34-4-2 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
 4) 500.0lb AC unit load placed on the top chord, 16-10-0 from left end, supported at two points, 5-6-0 apart.
 5) Provide adequate drainage to prevent water ponding.
 6) All plates are MT20 plates unless otherwise indicated.
 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A7A	Monopitch	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: F:\Users\j\Documents\2021\Lee's Summit\221102.dwg

ID: Pma1Jn0odbAt7yg9cdwkOzgz39-e056T7yMU900JEgPhHkIQeJeNd4IGwZe8d5mvguiU

Development Services Department

Lee's Summit, Missouri

09/08/2022

NOTES-

- 12) Load case(s) 1, 4, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-70, 8-13=-20
Concentrated Loads (lb)
Vert: 3=-250 18=-250
Trapezoidal Loads (plf)
Vert: 20=-70-to-7=-206
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-60, 8-13=-20
Concentrated Loads (lb)
Vert: 3=-250 18=-250
Trapezoidal Loads (plf)
Vert: 20=-60-to-7=-162
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-20=-61, 8-13=-20
Horz: 1-13=25, 1-7=1, 7-8=7, 7-14=45
Concentrated Loads (lb)
Vert: 3=-250 18=-250
Trapezoidal Loads (plf)
Vert: 20=-61-to-7=-163
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-20=-61, 8-13=-20
Horz: 1-13=-7, 1-7=1, 7-8=-25, 7-14=-45
Concentrated Loads (lb)
Vert: 3=-250 18=-250
Trapezoidal Loads (plf)
Vert: 20=-61-to-7=-163
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-20=-61, 8-13=-20
Horz: 1-13=-12, 1-7=1, 7-8=12, 7-14=30
Concentrated Loads (lb)
Vert: 3=-250 18=-250
Trapezoidal Loads (plf)
Vert: 20=-61-to-7=-163
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-20=-61, 8-13=-20
Horz: 1-13=-12, 1-7=1, 7-8=12, 7-14=30
Concentrated Loads (lb)
Vert: 3=-250 18=-250
Trapezoidal Loads (plf)
Vert: 20=-61-to-7=-163
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-70, 8-13=-20
Concentrated Loads (lb)
Vert: 3=-250 18=-250
Trapezoidal Loads (plf)
Vert: 20=-70-to-7=-206

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	A8	Monopitch Supported Gable	1	2	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITeklin...
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15-0-0

34 7 13

34-7-12

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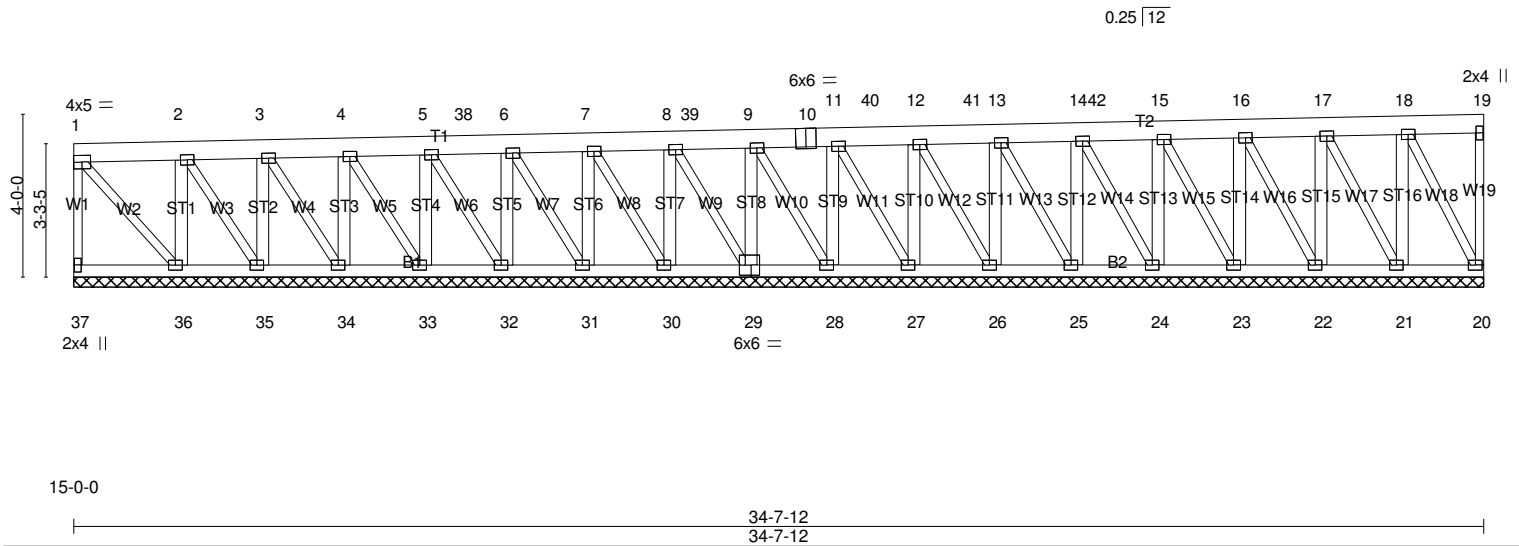


Plate Offsets (X,Y)--	[10:0-3-0,Edge], [29:0-2-8,0-3-0]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.13	Horz(CT) -0.00 20 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S		Weight: 412 lb	FT = 10%

LUMBER-

TOP CHORD	2x6	SPF No.2
BOT CHORD	2x4	SPF No.2
WEBS	2x3	SPF No.2
OTHERS	2x4	SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

ONS. All bearings 34-7-12.
(lb) - Max Horz 37=161(LC 38)
Max Uplift All uplift 100 lb or less at joint(s) 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36 except 37=679(LC 35), 20=644(LC 38)
Max Grav All reactions 250 lb or less at joint(s) 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36 except 37=728(LC 42), 20=670(LC 41), 21=419(LC 1), 22=355(LC 1), 23=312(LC 1), 24=265(LC 1)

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

TOP CHORD 1-37=701/685, 1-2=570/590, 2-3=506/520, 3-4=542/546, 4-5=566/564, 5-38=582/576,
6-38=381/373, 6-7=593/585, 7-8=600/591, 8-39=605/594, 9-39=404/394,
9-10=606/595, 11-40=605/594, 12-40=501/594, 12-41=601/590, 13-14=594/582,
14-42=582/571, 15-42=381/372, 15-16=565/554, 16-17=541/531, 17-18=505/496,
18-19=416/431

BOT CHORD 36-37=683/658, 35-36=503/484, 34-35=437/423, 33-34=396/385, 32-33=366/358,
31-32=346/340, 30-31=332/327, 29-30=322/319, 28-29=316/314, 27-28=314/312,
26-27=315/312, 25-26=319/315, 24-25=327/322, 23-24=336/334, 22-23=355/351,
21-22=379/371, 20-21=395/390

WEBS 18-21=754/734, 17-22=763/777, 16-23=759/773, 15-24=763/777, 14-25=763/777,
13-26=760/775, 12-27=757/770, 11-28=752/763, 9-29=746/757, 8-30=740/753,
7-31=733/747, 6-32=727/740, 5-33=720/733, 4-34=716/727, 3-35=718/715,
2-36=755/741, 1-36=872/881, 2-35=822/831, 3-34=790/796, 4-33=777/781,
5-32=769/772, 6-31=765/768, 7-30=765/768, 8-29=766/768, 9-28=767/769,
11-27=769/771, 12-26=771/773, 13-25=772/775, 14-24=773/774, 15-23=771/772,
16-22=767/768, 17-21=754/754, 18-20=722/726

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 10 = 0.00, 11 = 0.00, 12 = 0.00, 13 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00, 18 = 0.00, 19 = 0.00, 20 = 0.00, 21 = 0.00, 22 = 0.00, 23 = 0.00, 24 = 0.00, 25 = 0.00, 26 = 0.00, 27 = 0.00, 28 = 0.00, 29 = 0.00, 30 = 0.00, 31 = 0.00, 32 = 0.00, 33 = 0.00, 34 = 0.00, 35 = 0.00, 36 = 0.00 and 37 = 0.00

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x3 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x3 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

Continued on page 2

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Development Services Department
Lee's Summit, Missouri

**RELEASED FOR
CONSTRUCTION**
As Noted on Plans Review

Overlaid on Plans Section 209 Argument
Lee's Summit, Missouri
09/08/2022

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In...
ID:Pma11Jn0odbAt7yg9cdwkOzg39-2bnF59?EngXyFnyF5wgR3pQ4rYVHf8MfCMLi5squiR

Vert: $13 = -64 - 19 = -169$

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	A9	MONOPITCH	1	1	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek

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Lee's Summit, Missouri

09/08/2022

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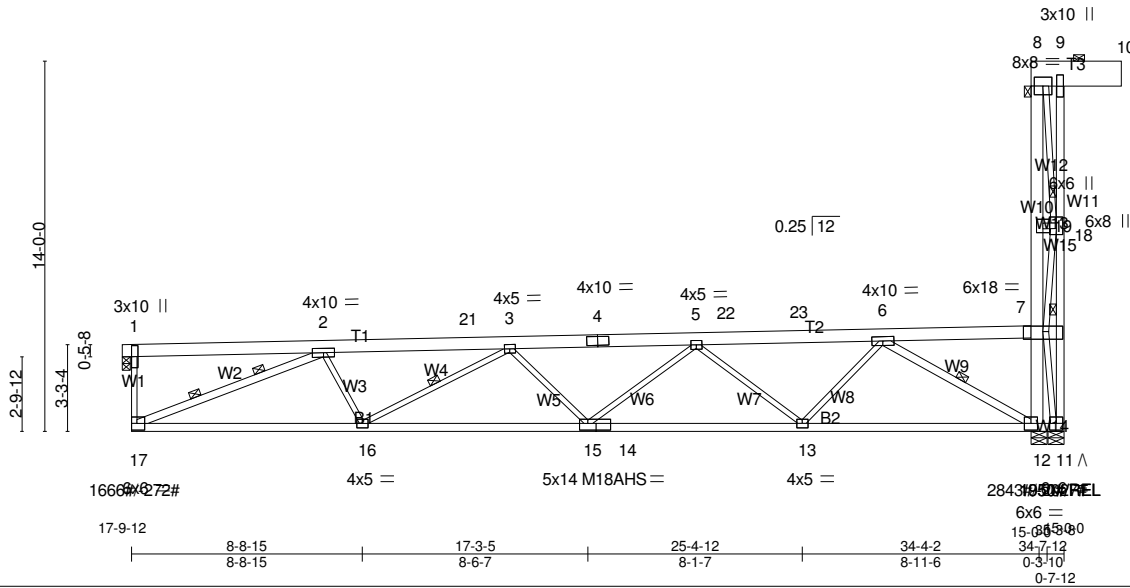


Plate Offsets (X,Y)-- [1:0-5-0,0-0-0], [14:0-3-12,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.30	15	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.59	15-16	>699	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	-0.06	1	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	0.21	15	>999	240	Weight: 207 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T3: 2x12 SP No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except*
B2: 2x4 SPF 2400F 2.0E

WEBS 2x3 SPF No.2 *Except*
W15,W2,W9: 2x4 SPF No.2, W10: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-10, 7-12. Except: 8-2-0 oc bracing: 8-19

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt 3-16, 6-12
2 Rows at 1/3 pts 9-11, 2-17

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

REACTIONS. (lb/size) 1=1666/0-3-10 (min. 0-2-10), 11=0/0-7-4 (min. 0-2-5), 12=2843/0-7-4 (min. 0-3-6)
Max Horz 12=602(LC 11)
Max Uplift1=-272(LC 10), 11=REL, 12=-2027(LC 10)
Max Grav 1=1666(LC 1), 11=1950(LC 10), 12=2843(LC 1)

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

TOP CHORD 1-17=-193/1444, 2-21=-3610/529, 3-21=-3602/530, 3-4=-4671/699, 4-5=-4666/700,
5-22=-3875/634, 22-23=-3870/635, 6-23=-3869/636, 6-7=-1086/850, 11-18=-1974/2048,
9-18=-381/247, 7-12=-763/1916, 7-19=-785/729, 8-19=-785/730

BOT CHORD 16-17=-575/3240, 15-16=-785/4595, 14-15=-796/4559, 13-14=-796/4559, 12-13=-675/3317,
11-12=-306/401

WEBS 2-17=-3482/597, 2-16=-3/835, 3-16=-1143/241, 5-15=-81/435, 5-13=-1087/342,
6-13=-147/1144, 6-12=-3588/494, 7-11=-1966/1382, 7-18=-1243/1338, 8-18=-688/677

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 11 = 0.00, 12 = 0.00, 13 = 0.00, 14 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00, 18 = 0.00 and 19 = 0.00

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 1=272, 12=2027.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A9	MONOPITCH	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: F:\Jobs\1904155\221102\Bldg\Truss\221102.dwg
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Lee's Summit, Missouri

09/08/2022

NOTES-

- 9) "A" indicates Released bearing: allow for upward movement at joint(s) 11.
 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 12) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-22=-70, 11-17=-20, 8-9=-70, 9-10=-70
 Trapezoidal Loads (plf)
 Vert: 22=-70-to-7=-270
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-22=-60, 11-17=-20, 8-9=-60, 9-10=-60
 Trapezoidal Loads (plf)
 Vert: 22=-60-to-7=-210
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-22=-30, 11-17=-20, 8-9=-30, 9-10=-70
 Trapezoidal Loads (plf)
 Vert: 22=-30-to-7=-230
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-22=-61, 11-17=-20, 8-9=-61, 9-10=-56
 Horz: 1-17=25, 1-7=1, 9-11=7, 7-19=30, 8-19=25
 Trapezoidal Loads (plf)
 Vert: 22=-61-to-7=-211
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-22=-61, 11-17=-20, 8-9=-61, 9-10=-56
 Horz: 1-17=-7, 1-7=1, 9-11=-25, 7-19=-2, 8-19=-7
 Trapezoidal Loads (plf)
 Vert: 22=-61-to-7=-211
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-22=-61, 11-17=-20, 8-9=-61, 9-10=-56
 Horz: 1-17=-12, 1-7=1, 9-11=12, 7-19=-7, 8-19=-12
 Trapezoidal Loads (plf)
 Vert: 22=-61-to-7=-211
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-22=-61, 11-17=-20, 8-9=-61, 9-10=-56
 Horz: 1-17=-12, 1-7=1, 9-11=12, 7-19=-7, 8-19=-12
 Trapezoidal Loads (plf)
 Vert: 22=-61-to-7=-211
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-22=-70, 11-17=-20, 8-9=-70, 9-10=-70
 Trapezoidal Loads (plf)
 Vert: 22=-70-to-7=-270

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A10	MONOPITCH	2	1		
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision 19.0.11.55 288.000

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Lee's Summit, Missouri

09/08/2022

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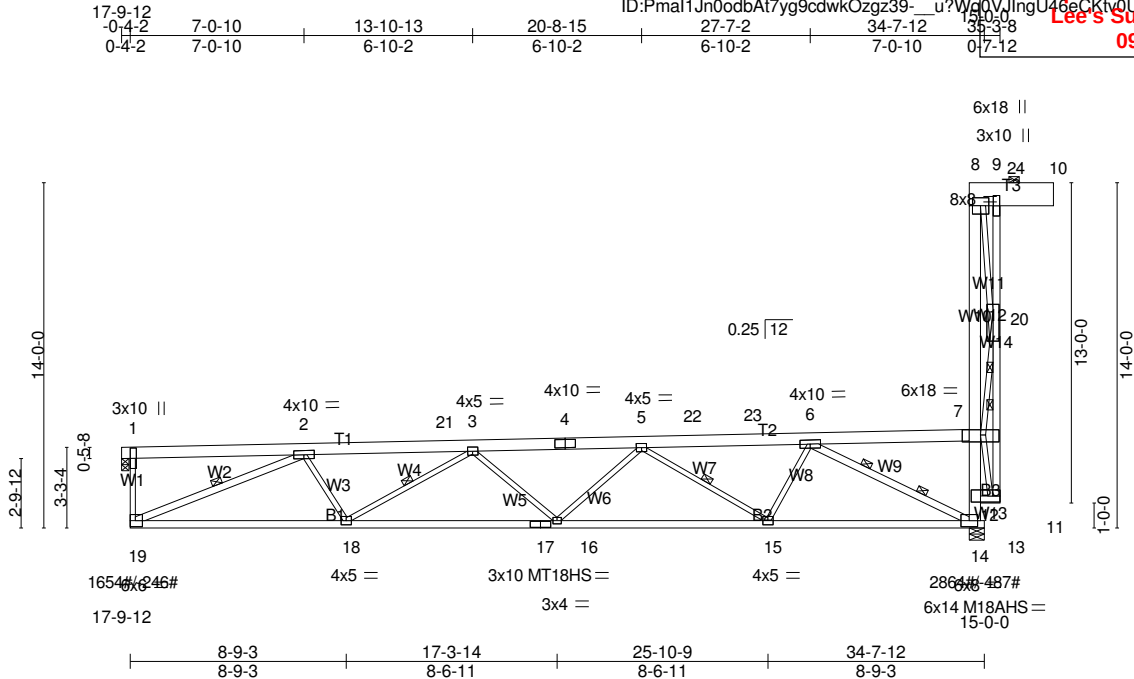


Plate Offsets (X,Y)-- [1:0-5-0,0-0-0], [20:0-2-12,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	Vert(LL)	-0.27 15-16	>999	360	MT20	185/144
TCDL 15.0	Plate Grip DOL 1.15	BC 0.53	Vert(CT)	-0.54 15-16	>764	240	M18AHS	142/136
BCLL 0.0 *	Lumber DOL 1.15	WB 0.98	Horz(CT)	-0.06 1	n/a	n/a	MT18HS	197/144
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.18 16	>999	240	Weight: 228 lb	FT = 10%
	Code IBC2018/TPI2014							

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
T3: 2x12 HF SS

BOT CHORD 2x4 SPF 2400F 2.0E *Except*
B3: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*
W2,W9,W14: 2x4 SPF No.2, W10: 2x6 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 8-10, 7-14. Except: 6-0-0 oc bracing: 12-14

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.

WEBS 1 Row at midpt 2-19, 3-18, 5-15, 11-20
2 Rows at 1/3 pts 6-14

JOINTS 1 Brace at Jt(s): 20

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

REACTIONS. (lb/size) 1=1654/0-3-10 (min. 0-1-15), 14=2864/0-7-4 (min. 0-3-6)

Max Horz 14=688(LC 11)

Max Uplift1=-246(LC 10), 14=-487(LC 11)

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

TOP CHORD 1-19=-169/1436, 2-21=-3565/450, 3-21=-3557/451, 3-4=-4605/558, 4-5=-4599/559,
5-22=-3760/433, 22-23=-3756/434, 6-23=-3750/435, 6-7=-1276/1095, 11-20=-2031/2360,
9-20=-439/288, 12-14=-1007/436, 7-12=-1121/360, 7-8=-735/736

BOT CHORD 18-19=-505/3127, 17-18=-663/4502, 16-17=-663/4502, 15-16=-640/4515, 14-15=-469/3493,
11-12=-449/528

WEBS 2-19=-3379/525, 2-18=0/882, 3-18=-1111/195, 5-16=-74/371, 5-15=-1202/388,
6-15=-129/923, 6-14=-3708/549, 7-11=-1879/1517, 7-20=-1582/1397, 8-20=-705/734

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 11 = 0.00, 12 = 0.00, 12 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00, 18 = 0.00, 19 = 0.00 and 20 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A10	MONOPITCH	2	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek International, Inc. File: US-19-11-55-288-2.dwg

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Oswald County, Missouri

Lee's Summit, Missouri

09/08/2022

NOTES-

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=246, 14=487.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 11) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-70, 13-19=-20, 11-12=-20, 9-24=-70, 9-10=-70
Trapezoidal Loads (plf)
Vert: 22=-70-to-7=-264, 8=-264-to-24=-270
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-60, 13-19=-20, 11-12=-20, 9-24=-60, 9-10=-60
Trapezoidal Loads (plf)
Vert: 22=-60-to-7=-205, 8=-205-to-24=-210
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-30, 13-19=-20, 11-12=-20, 9-24=-30, 9-10=-70
Trapezoidal Loads (plf)
Vert: 22=-30-to-7=-224, 8=-224-to-24=-230
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-22=-61, 13-19=-20, 11-12=-20, 9-24=-61, 9-10=-56, 12-14=-30
Horz: 1-19=25, 1-7=1, 9-11=7, 12-14=30, 7-8=30
Trapezoidal Loads (plf)
Vert: 22=-61-to-7=-206, 8=-206-to-24=-211
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-22=-61, 13-19=-20, 11-12=-0, 9-24=-61, 9-10=-56, 12-14=4
Horz: 1-19=-7, 1-7=1, 9-11=-25, 12-14=-4, 7-8=-4
Trapezoidal Loads (plf)
Vert: 22=-61-to-7=-206, 8=-206-to-24=-211
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-22=-61, 13-19=-20, 11-12=-20, 9-24=-61, 9-10=-56, 12-14=-6
Horz: 1-19=-12, 1-7=1, 9-11=12, 12-14=6, 7-8=6
Trapezoidal Loads (plf)
Vert: 22=-61-to-7=-206, 8=-206-to-24=-211
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-22=-61, 13-19=-20, 11-12=-0, 9-24=-61, 9-10=-56, 12-14=-6
Horz: 1-19=-12, 1-7=1, 9-11=12, 12-14=6, 7-8=6
Trapezoidal Loads (plf)
Vert: 22=-61-to-7=-206, 8=-206-to-24=-211
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-22=-70, 13-19=-20, 11-12=-20, 9-24=-70, 9-10=-70
Trapezoidal Loads (plf)
Vert: 22=-70-to-7=-264, 8=-264-to-24=-270

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. Fri Aug 5 19:41:57 2023 Page 1

Development Services Department

Lee's Summit, Missouri

09/08/2022

Scale = 1:93.5

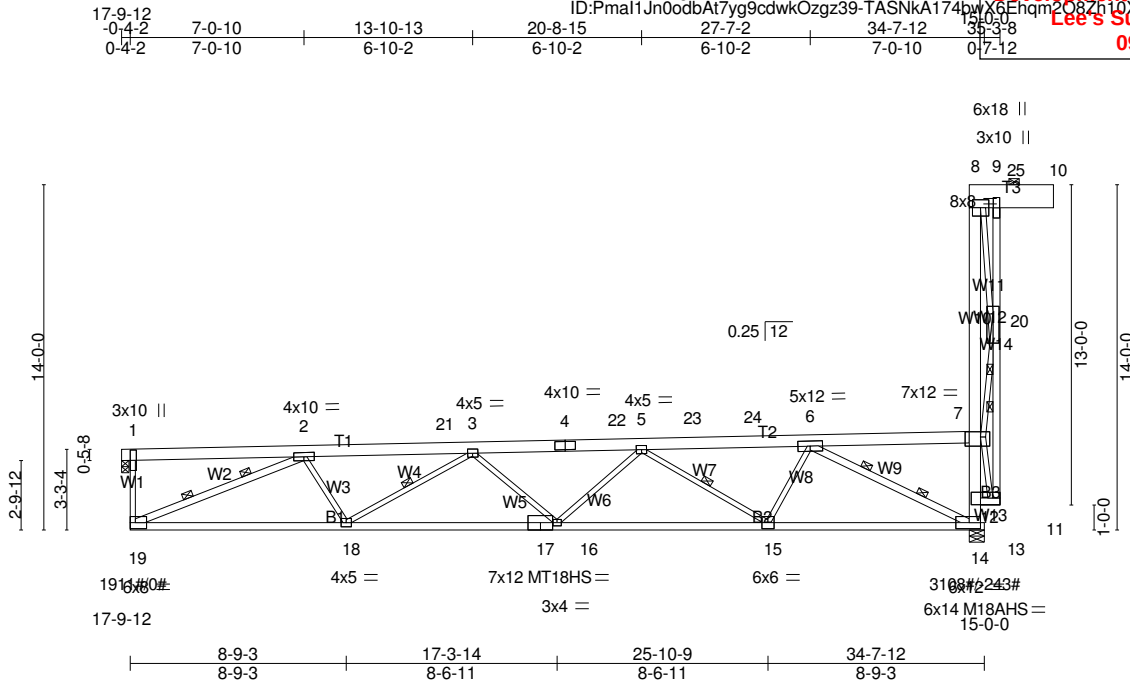


Plate Offsets (X,Y)-- [1:0-5-0,0-0-0], [7:0-7-8,0-2-8], [12:Edge,0-3-4], [14:0-5-8,0-3-0], [20:0-2-12,0-3-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.84	Vert(LL) -0.27 15-16 >999 360	MT20	185/144
TCDL 15.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.64 15-16 >641 240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr NO	WB 0.93	Horz(CT) -0.07 1 n/a n/a	MT18HS	197/144
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) 0.18 16 >999 240	Weight: 228 lb	FT = 10%

TOP CHORD 2x6 SP DSS *Except*
T3: 2x12 HF SS
BOT CHORD 2x4 SPF 2400F 2.0E *Except*
B3: 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
W2,W9,W14: 2x4 SPF No.2, W10: 2x6 SP DSS

TOP CHORD	Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 8-10, 7-14. Except: 6-0-0 oc bracing: 12-14	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.	
WEBS	1 Row at midpt	3-18, 5-15, 11-20
	2 Rows at 1/3 pts	2-19, 6-14
JOINTS	1 Brace at Jt(s): 20	

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

Max Horz 14=688(LC 11)
Max Uplift14=-243(LC 11)

TOP CHORD 1-19=0/1689, 2-21=-4279/0, 3-21=-4270/0, 3-4=-5666/0, 4-22=-5660/0, 5-22=-5652/0,
5-23=-4352/0, 23-24=-4347/0, 6-24=-4342/0, 6-7=-1282/1089, 11-20=-2027/2364,
9-20=-439/287, 12-14=-1013/430, 7-12=-1134/347, 7-8=-736/735

WEBS 2-19=-4005/0, 2-18=0/1166, 3-18=-1580/0, 5-16=-4/440, 5-15=-1703/0, 6-15=0/1226,
6-14=-4216/41, 7-11=-1878/1518, 7-20=-1585/1394, 8-20=-703/736

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 11 = 0.00, 12 = 0.00, 12 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00, 18 = 0.00, 19 = 0.00 and 20 = 0.00

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) 500.0lb AC unit load placed on the top chord, 16'-10" from left end, supported at two points, 5'-6" apart.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.

Continued on page 2

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	A10A	MONOPITCH	2	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. File: C:\Users\jg\OneDrive\Documents\2082710X2S\UON\Novab910\quid

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Oswald Engineering Department
Lee's Summit, Missouri

09/08/2022

NOTES-

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=243.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-23=-70, 13-19=-20, 11-12=-20, 9-25=-70, 9-10=-70
Concentrated Loads (lb)
Vert: 3=-250 22=-250
Trapezoidal Loads (plf)
Vert: 23=-70-to-7=-264, 8=-264-to-25=-270
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-23=-60, 13-19=-20, 11-12=-20, 9-25=-60, 9-10=-60
Concentrated Loads (lb)
Vert: 3=-250 22=-250
Trapezoidal Loads (plf)
Vert: 23=-60-to-7=-205, 8=-205-to-25=-210
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-23=-30, 13-19=-20, 11-12=-20, 9-25=-30, 9-10=-70
Concentrated Loads (lb)
Vert: 3=-250 22=-250
Trapezoidal Loads (plf)
Vert: 23=-30-to-7=-224, 8=-224-to-25=-230
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-23=-61, 13-19=-20, 11-12=-20, 9-25=-61, 9-10=-56, 12-14=-30
Horz: 1-19=25, 1-7=1, 9-11=7, 12-14=30, 7-8=30
Concentrated Loads (lb)
Vert: 3=-250 22=-250
Trapezoidal Loads (plf)
Vert: 23=-61-to-7=-206, 8=-206-to-25=-211
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-23=-61, 13-19=-20, 11-12=-0, 9-25=-61, 9-10=-56, 12-14=4
Horz: 1-19=-7, 1-7=1, 9-11=-25, 12-14=-4, 7-8=-4
Concentrated Loads (lb)
Vert: 3=-250 22=-250
Trapezoidal Loads (plf)
Vert: 23=-61-to-7=-206, 8=-206-to-25=-211
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-23=-61, 13-19=-20, 11-12=-20, 9-25=-61, 9-10=-56, 12-14=-6
Horz: 1-19=-12, 1-7=1, 9-11=12, 12-14=6, 7-8=6
Concentrated Loads (lb)
Vert: 3=-250 22=-250
Trapezoidal Loads (plf)
Vert: 23=-61-to-7=-206, 8=-206-to-25=-211
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-23=-61, 13-19=-20, 11-12=-0, 9-25=-61, 9-10=-56, 12-14=-6
Horz: 1-19=-12, 1-7=1, 9-11=12, 12-14=6, 7-8=6
Concentrated Loads (lb)
Vert: 3=-250 22=-250
Trapezoidal Loads (plf)
Vert: 23=-61-to-7=-206, 8=-206-to-25=-211
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-23=-70, 13-19=-20, 11-12=-20, 9-25=-70, 9-10=-70
Concentrated Loads (lb)
Vert: 3=-250 22=-250
Trapezoidal Loads (plf)
Vert: 23=-70-to-7=-264, 8=-264-to-25=-270

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	A11	MONOPITCH GIRDER	1	3		

Wheeler Lumber, Waverly, KS 66871

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09/08/2022

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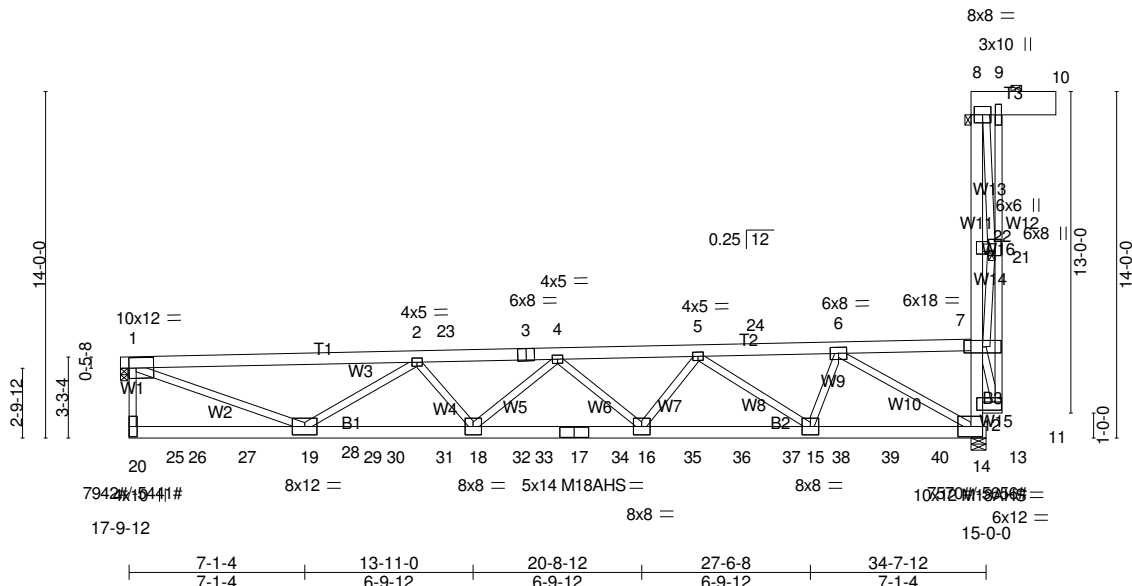


Plate Offsets (X,Y)-- [1:0-3-8,0-5-0], [3:0-4-0,Edge], [12:0-3-4,0-4-0], [14:0-5-8,0-5-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	0.62 16-18	>658	240	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.73 16-18	>559	180	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.91	Horz(CT)	-0.04 1	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						
								Weight: 754 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x6 SP DSS, T3: 2x12 SP No.2
BOT CHORD 2x6 SPF 1650F 1.4E *Except*
B3: 2x6 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W11: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-10, 7-14. Except: 6-0-0 oc bracing: 12-14
10-0-0 oc bracing: 8-22
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-11

REACTIONS. (lb/size) 1=5452/0-3-10 (min. 0-3-2), 14=5010/0-7-4 (min. 0-3-15)
Max Horz 14=609(LC 11)
Max Uplift 1=5441(LC 10), 14=5656(LC 11)
Max Grav 1=7942(LC 44), 14=7570(LC 43)

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

TOP CHORD 1-20=-990/1442, 1-2=-14690/10193, 2-23=-20703/14662, 3-23=-20699/14663,
3-4=-20698/14663, 4-5=-19448/14580, 5-24=-12822/9848, 6-24=-12819/9849,
6-7=-1514/1385, 11-21=-2051/2184, 9-21=-379/262, 12-14=-491/393, 7-12=-1071/1068,
7-22=-812/753, 8-22=-812/754
BOT CHORD 20-25=-235/341, 25-26=-235/341, 26-27=-235/341, 27-28=-235/341, 19-28=-235/341,
19-29=-13366/19043, 29-30=-13366/19043, 30-31=-13366/19043, 18-31=-13366/19043,
18-32=-14716/20219, 32-33=-14716/20219, 17-33=-14716/20219, 17-34=-14716/20219,
16-34=-14716/20219, 16-35=-13054/17364, 35-36=-13054/17364, 36-37=-13054/17364,
15-37=-13054/17364, 15-38=-8393/10863, 38-39=-8393/10863, 39-40=-8393/10863,
14-40=-8393/10863, 11-12=-563/606
WEBS 1-19=-10794/15499, 2-19=-5287/3771, 2-18=-2269/3195, 4-18=-413/898, 4-16=-1243/353,
5-16=-2917/4070, 5-15=-5872/4175, 6-15=-4916/6434, 6-14=-11640/8669, 7-11=-2011/1793,
7-21=-1335/1271, 8-21=-732/725

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 11 = 0.00, 12 = 0.00, 12 = 0.00, 14 = 0.00, 15 = 0.00, 16 = 0.00, 17 = 0.00, 18 = 0.00, 19 = 0.00, 20 = 0.00, 21 = 0.00 and 22 = 0.00

NOTES-

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-7-0 oc, 2x12 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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

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Development Services Department
Lee's Summit, Missouri

- Cat C: Partially Exp., Ce=1.0; Cs=1.00;

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Vert: $1-7=-70$, $13-20=-20$, $11-12=-20$, $8-9=-70$, $9-10=-70$

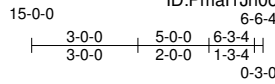
Vert: 16=-374(B) 25=-487(B) 26=-481(B) 27=-482(B) 28=-482(B) 29=-482(B) 30=-482(B) 31=-482(B) 32=-400(B) 33=-374(B) 34=-374(B) 35=-374(B) 36=-374(B)
37=-374(B) 38=-374(B) 39=-374(B) 40=-374(B)

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J1	GABLE	2	1	
Job Reference (optional)					

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house File: C:\Users\jg90009\Desktop\221102.dwg

ID: Pma1Jn0odbAt7yg9cdwkOzgZ39-ll8WMC3?NW16ziQPPAxxBk4ZzGWihzzFdyppwkyl

Oswald County, Missouri Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:64.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.17	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-R					Weight: 59 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x8 SP DSS *Except*
W2: 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-12, 1-7.
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 6-6-4.

(lb) - Max Horz 11=580(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 8 except 11=1342(LC 10), 10=713(LC 11), 9=457(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 8 except 11=1340(LC 13), 10=966(LC 19), 9=685(LC 19)

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

TOP CHORD 1-11=-1632/2015, 1-3=-1433/1705, 1-2=-1294/1649, 2-4=-1294/1649, 7-8=-391/565,

3-4=-2345/2045

WEBS 2-10=-1025/987, 5-9=-865/864, 6-8=-553/455

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00, 10 = 0.00 and 11 = 0.00

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=25ft; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-3-10 to 3-1-11, Exterior(2N) 3-1-11 to 6-4-8 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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 3-6-0 tall by 2-0-0 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) 8 except (jt=lb) 11=1342, 10=713, 9=457.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J1	GABLE	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek International, Inc. File: C:\Users\jg\OneDrive\Documents\221102\221102.dwg
ID: Pmal1Jn0odbAt7yg9cdwkOzg39-tt8WMC3?NW16ziQPRAXrBK4ZzGWihzzFdyYpdkwquLOswald County, Missouri
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 8-11=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-4=-81, 4=-151-to-7=-70, 3=-222-to-4=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 8-11=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-4=-61, 4=-121-to-7=-60, 3=-174-to-4=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 7-8=-7, 8-11=-20
 - Horz: 1-11=25, 1-3=25, 3-12=45, 7-8=7, 3-4=10
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-4=-61, 4=-122-to-7=-61, 3=-165-to-4=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 7-8=25, 8-11=-20
 - Horz: 1-11=-7, 1-3=-7, 3-12=-45, 7-8=-25, 3-4=-15
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-4=-61, 4=-122-to-7=-61, 3=-189-to-4=-136
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 7-8=-12, 8-11=-20
 - Horz: 1-11=-12, 1-3=-12, 3-12=-30, 7-8=12, 3-4=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-4=-61, 4=-122-to-7=-61, 3=-175-to-4=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 7-8=-12, 8-11=-20
 - Horz: 1-11=-12, 1-3=-12, 3-12=-30, 7-8=12, 3-4=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-4=-61, 4=-122-to-7=-61, 3=-175-to-4=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 8-11=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-4=-81, 4=-151-to-7=-70, 3=-182-to-4=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J2	FLAT	2	1	
Job Reference (optional)					

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house File: C:\Users\perry\OneDrive\Documents\Lee's Summit, Missouri\221102\221102.dwg
ID: Pma11Jn00qbA17yg9cdwkOzg39-tl8WMC3?NW16ziQPRAXrBkFZxGYhntFdyppwkyl

Designated Service Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

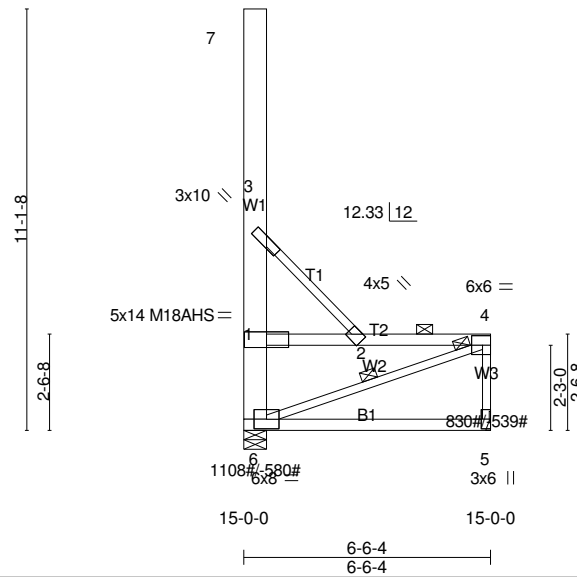


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.09	5-6	>773	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.57	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-11 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=849/0-7-4 (min. 0-1-12), 5=500/Mechanical
Max Horz 6=580(LC 10)
Max Uplift 6=580(LC 10), 5=539(LC 11)
Max Grav 6=1108(LC 20), 5=830(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-990/352, 1-3=-798/599, 1-2=-1340/1123, 2-4=-1517/1442, 4-5=-767/774,
2-3=-804/948
WEBS 4-6=-1507/1607

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-11, Interior(1) 3-1-11 to 6-5-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=580, 5=539.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J2	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102
ID: Pma1Jn0odbAt7yg9cdwkOzg39-tl8WMC3?NWl6ziQPRAxrBkZxGYhhtpEdYppwkyquilOswald County Sheriff's Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-82, 2=-152-to-4=-70, 3=-222-to-2=-152
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-112
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-15
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-189-to-2=-136
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-82, 2=-152-to-4=-70, 3=-182-to-2=-112

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J3	FLAT	2	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Inc. File: J:\Projects\2020\221102\221102.dwg User: J3

ID: Pma11Jn00dAt7yg9cdwkOzgZ39-LxiuZY4d8gQzar7b7US4XCg7quvQJlQScZMSBvquik

Development Services Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

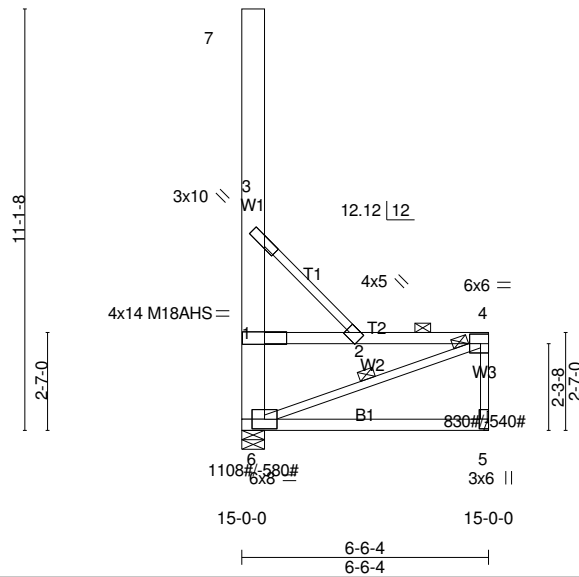


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	5-6	>772	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-10 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=849/0-7-4 (min. 0-1-12), 5=500/Mechanical
Max Horz 6=580(LC 10)
Max Uplift 6=580(LC 10), 5=540(LC 11)
Max Grav 6=1108(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1003/330, 1-3=-793/538, 1-2=-1441/1224, 2-4=-1544/1481, 4-5=-767/775,
2-3=-723/945
WEBS 4-6=-1553/1643

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-12, Interior(1) 3-1-12 to 6-5-0 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
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=580, 5=540.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J3	FLAT	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102
ID:Pma1Jn0odbAt7yg9cdwkOzg39-LxiuZY4d8gQzar7b7US4XCg7quvQJlQscZMSBvquikDevelopment Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-82, 2=-152-to-4=-70, 3=-222-to-2=-152
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-112
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-14
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-189-to-2=-136
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-82, 2=-152-to-4=-70, 3=-182-to-2=-112

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J4	FLAT	2	1	
Job Reference (optional)					

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house File: C:\Users\j\Documents\2021\221102\221102.dwg

ID: Pma11Jn00dAt7yg9cdwkOzgZ39-p8Ggnu5Fv8YqC?aoZbzJGkro3E89msY5slw_dyquj

Development Services Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

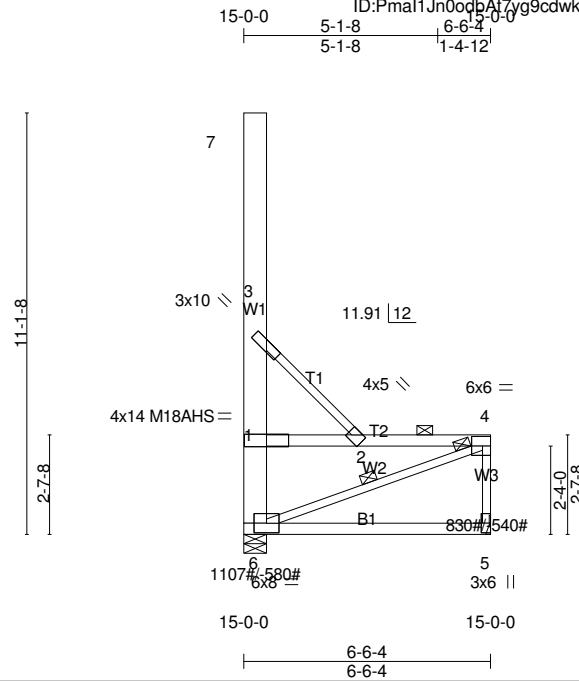


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.99	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	5-6	>770	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.60	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240		
									Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals, and 2-0-0 oc purlins (2-3-6 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=849/0-7-4 (min. 0-1-12), 5=500/Mechanical
Max Horz 6=580(LC 12)
Max Uplift 6=580(LC 10), 5=540(LC 11)
Max Grav 6=1107(LC 20), 5=830(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1003/453, 1-3=-790/706, 1-2=-1426/1334, 2-4=-1895/1500, 4-5=-845/857,
2-3=-932/947
WEBS 4-6=-1572/2013

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-12, Interior(1) 3-1-12 to 6-5-0 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
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=580, 5=540.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J5	FLAT	2	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Inc. 1799cdwkhkqz39-HKqe_D6ugRhgq98-6JYyYH011aNuD9hJW2TW3yquil
ID: Pma11Jn00dbA17y99cdwkhkqz39-HKqe_D6ugRhgq98-6JYyYH011aNuD9hJW2TW3yquil
Development Services Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

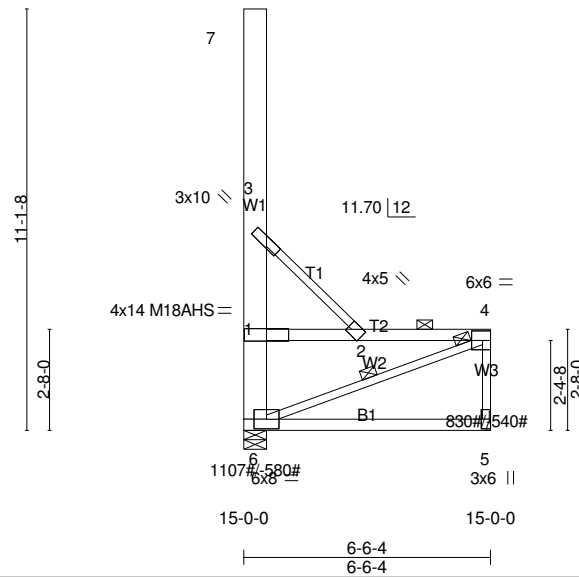


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.98	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	5-6	>769	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-14 oc purlins, except end verticals, and 2-0-0 oc purlins (2-4-12 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=849/0-7-4 (min. 0-1-12), 5=500/Mechanical
Max Horz 6=580(LC 10)
Max Uplift 6=580(LC 10), 5=540(LC 11)
Max Grav 6=1107(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1004/449, 1-3=-788/699, 1-2=-1411/1311, 2-4=-1868/1480, 4-5=-846/857,
2-3=-929/949
WEBS 4-6=-1558/1992

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-13, Interior(1) 3-1-13 to 6-5-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=580, 5=540.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J5	FLAT	2	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Date: 08/16/2021

ID: Pma11Jn0odbAt7yg9cdwkOzg39-HKqe_D6ugRghq98-6JYyYH01TaNuD9hJW2TW3yquil

Development Services Department

Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-112
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-14
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-189-to-2=-135
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J6	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTe

ID:Pma11Jn0odbAt7yg9cdwkOzgz39-HKqe_D6ugF

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5-2-8 1-3-12

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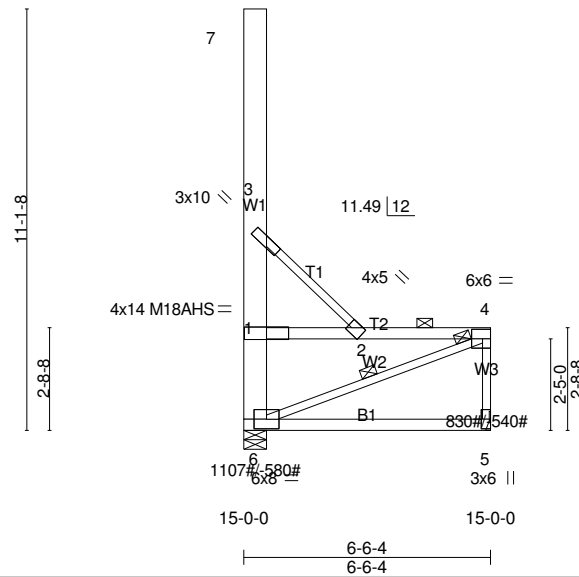


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.97	Vert(LL) -0.05 5-6 >999 360	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.10 5-6 >768 240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr NO	WB 0.59	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) -0.01 5-6 >999 240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-6-2 max.): 3-7, 1-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-6

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

REACTIONS.

(lb/size) 6=849/0-7-4 (min. 0-1-12), 5=500/Mechanical
Max Horz 6=-580(LC 10)
Max Uplift 6=-580(LC 10), 5=-540(LC 11)
Max Grav 6=1107(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1005/445, 1-3=-785/691, 1-2=-1398/1289, 2-4=-1840/1460, 4-5=-847/856,
2-3=-926/952
WEBS 4-6=-1544/1971

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-13, Interior(1) 3-1-13 to 6-5-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=580, 5=540.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J6	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job File: C:\Users\j\OneDrive\Documents\221102\221102.dwg

ID:Pmal1Jn0odbAt7yg9cdwkOzg39-IWN1CZ6WQloXRJjAg00nLAgBbtwcdgQqYA03Wvquih

Oswald County, Missouri
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-112
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-14
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-188-to-2=-135
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J7	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTe

ID:Pma11Jn0odbAt7yg9cdwkOzg39-IWN1CZ6W

5-3-0	6-6-4	9-9-0
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5-3-0 '1-3-4'

Scale = 1:60.8

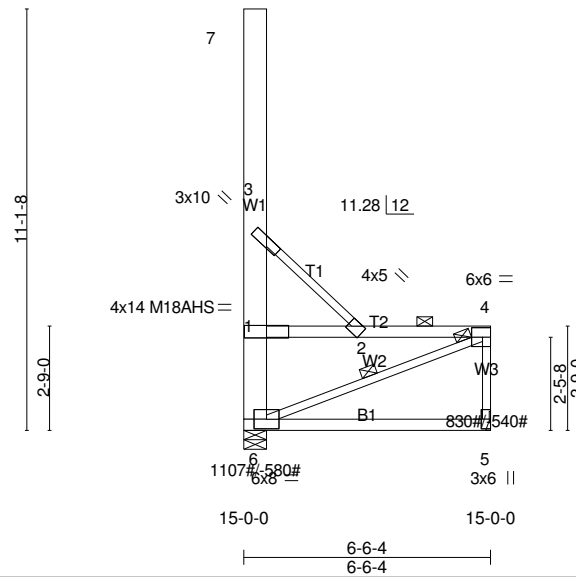


Plate Offsets (X,Y)-- [5:Edge,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.10	5-6	>767	240	M18AHS	142/136
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-0-3 oc purlins, except end verticals, and 2-0-0 oc purlins (2-7-4 max.): 3-7, 1-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-6

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

REACTIONS.

(lb/size) 6=849/0-7-4 (min. 0-1-12), 5=500/Mechanical
Max Horz 6=-580(LC 10)
Max Uplift 6=-580(LC 10), 5=-540(LC 11)
Max Grav 6=1107(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1005/441, 1-3=-783/682, 1-2=-1385/1267, 2-4=-1812/1442, 4-5=-847/856,
2-3=-923/954
WEBS 4-6=-1531/1950

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-13, Interior(1) 3-1-13 to 6-5-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=580, 5=540.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J7	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITek Inc. v10.1.0.0
ID: Pma11Jn0odbAt7yg9cdwkOzg39-IWN1CZ6WQloXRJjAg00nLAgBltwcdgTqYAn03WvquiHDevelopment Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-112
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-188-to-2=-135
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J8	FLAT	2	1		
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house File: 1799cdwkOzg39-EjxPPv78B3wC3TIME\X0uNMNHFM7m_pqXabyvquiG
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Oswaldment Services Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

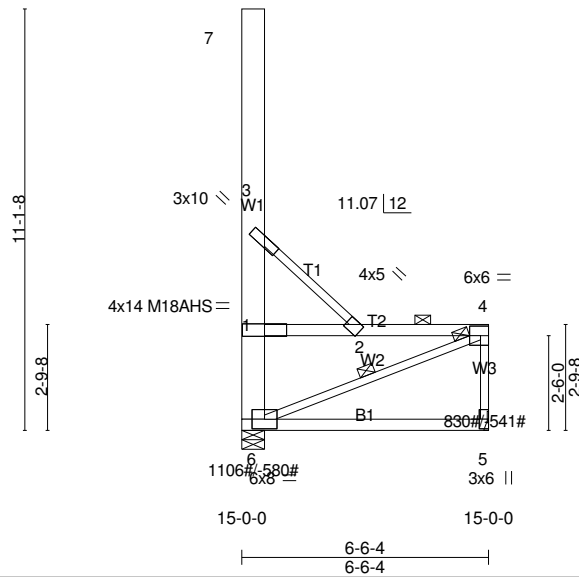


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.95	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	5-6	>766	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-5 oc purlins, except end verticals, and 2-0-0 oc purlins (2-8-7 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=849/0-7-4 (min. 0-1-12), 5=500/Mechanical
Max Horz 6=580(LC 12)
Max Uplift 6=580(LC 10), 5=541(LC 11)
Max Grav 6=1106(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1006/437, 1-3=-780/674, 1-2=-1372/1246, 2-4=-1784/1423, 4-5=-847/855,
2-3=-919/957
WEBS 4-6=-1518/1928

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-14, Interior(1) 3-1-14 to 6-5-0 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
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=580, 5=541.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J8	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102

ID: Pma11Jn0odbAt7yg9cdwkOzgz39-EjxPPv78B3wC3TIMEIX0uNMNHFrM7m_ggXabyvquiG

Development Services Department

Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-112
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-14
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-188-to-2=-135
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J9	FLAT	2	1		
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house File: S:\Projects\221102\221102.dwg
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 Development Services Department
 Lee's Summit, Missouri
 09/08/2022

Scale = 1:60.8

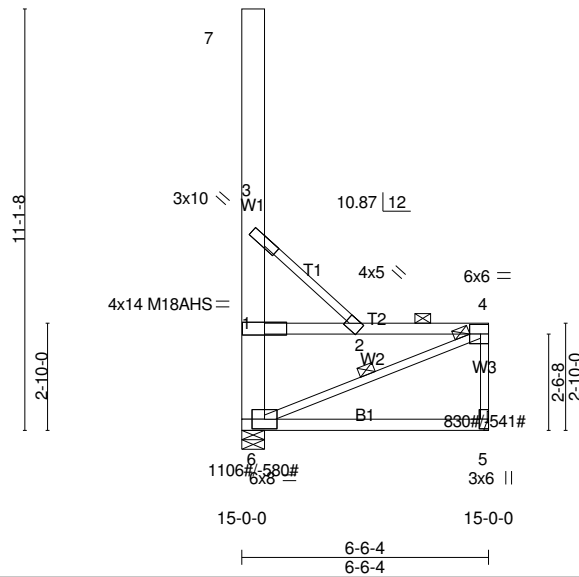


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.94	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	5-6	>765	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
 T1: 2x3 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins (2-9-9 max.): 3-7, 1-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=850/0-7-4 (min. 0-1-12), 5=500/Mechanical
 Max Horz 6=579(LC 10)
 Max Uplift 6=580(LC 10), 5=541(LC 11)
 Max Grav 6=1106(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1006/432, 1-3=-778/665, 1-2=-1361/1225, 2-4=-1756/1406, 4-5=-846/855,
 2-3=-915/960
 WEBS 4-6=-1505/1906

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-14, Interior(1) 3-1-14 to 6-5-0 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
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=580, 5=541.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J9	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102

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Development Services Department

Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-188-to-2=-135
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J10	FLAT	2	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Inc. File: S:\Projects\221102\221102.dwg User: J10

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Oswald Engineering Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

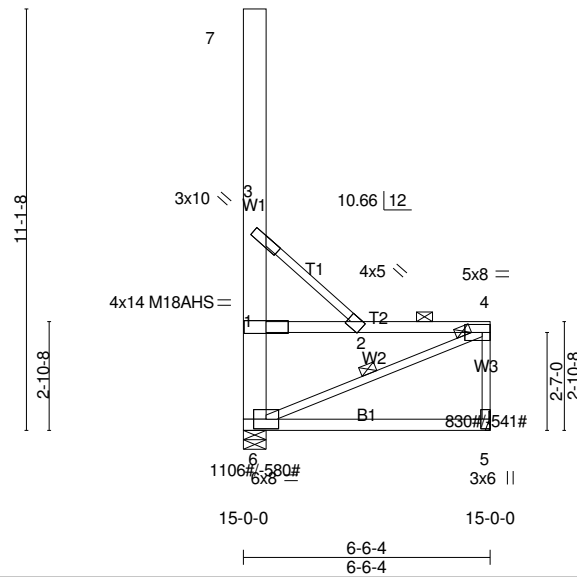


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	5-6	>764	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-10 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-12 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=850/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=-579(LC 10)
Max Uplift 6=-580(LC 10), 5=-541(LC 11)
Max Grav 6=1106(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1007/428, 1-3=-775/656, 1-2=-1350/1204, 2-4=-1728/1388, 4-5=-845/854,
2-3=-911/963
WEBS 4-6=-1493/1884

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-14, Interior(1) 3-1-14 to 6-5-0 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
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=580, 5=541.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J10	FLAT	2	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek International, Inc. File: C:\Program Files\MiTek\Truss Designer\221102.dwg

ID: Pma11Jn0odbAt7yg9cdwkOzgz39-A539qb9OjgA6lnSl8ZUz6SiS4xlc1KHE800fayquie

Oswald County, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-14
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-188-to-2=-134
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J11	FLAT	2	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Inc. File: J:\Projects\221102\Truss\221102-01.dwg User: J11

ID: Pma1Jn00dbAt7yg9cdwkOzgz39-A539qb9OjgA6InSl8ZUz6Sic4xlg1MHE800fayquIE

Oswald Engineering Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

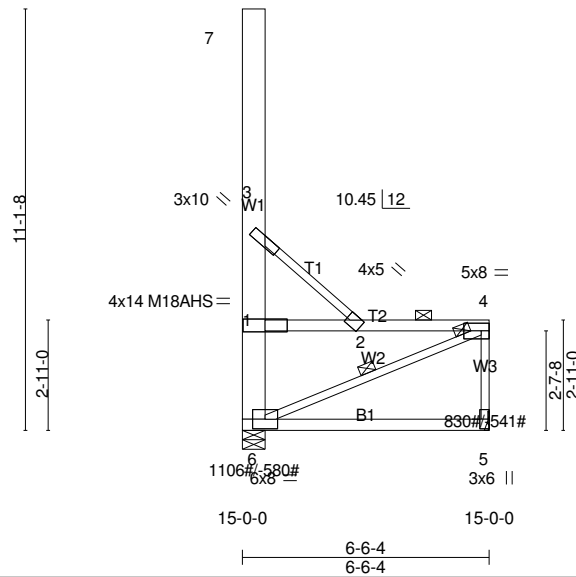


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	5-6	>763	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240		
									Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-10 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=850/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=-579(LC 10)
Max Uplift 6=-580(LC 10), 5=-541(LC 11)
Max Grav 6=1106(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1007/423, 1-3=-773/647, 1-2=-1339/1184, 2-4=-1700/1371, 4-5=-843/853,
2-3=-907/967
WEBS 4-6=-1481/1861

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-15, Interior(1) 3-1-15 to 6-5-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=580, 5=541.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J11	FLAT	2	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102

ID: Pma1Jn0odbAt7yg9cdwkOzgz39-A539qb9OjgA6lnSl8ZUzcSic4xlg1MHE80ofavquiE

Oswald, Jennifer
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-13
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-188-to-2=-134
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J12	FLAT	2	1	
Job Reference (optional)					

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In

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Development Services Department

Lee's Summit, Missouri

09/08/2022

Scale = 1:60.8

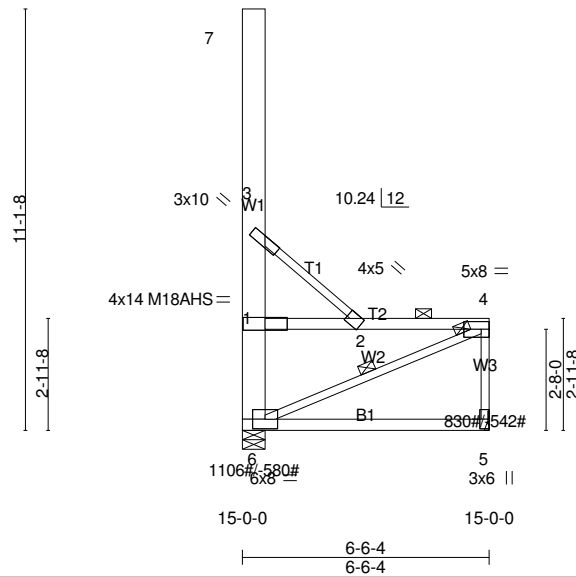


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.92	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	5-6	>762	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-0-13 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=850/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=-579(LC 10)
Max Uplift 6=-580(LC 10), 5=-542(LC 11)
Max Grav 6=1106(LC 20), 5=830(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1008/418, 1-3=-770/638, 1-2=-1329/1164, 2-4=-1672/1355, 4-5=-841/853,
2-3=-903/971
WEBS 4-6=-1470/1839

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-15, Interior(1) 3-1-15 to 6-5-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=580, 5=542.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J12	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

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Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-13
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-188-to-2=-134
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J13	FLAT	2	1	
Job Reference (optional)					

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Inc. File: J:\Projects\2021\221102\Truss\221102.dwg User: J13

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Development Services Department
Lee's Summit, Missouri
09/08/2022

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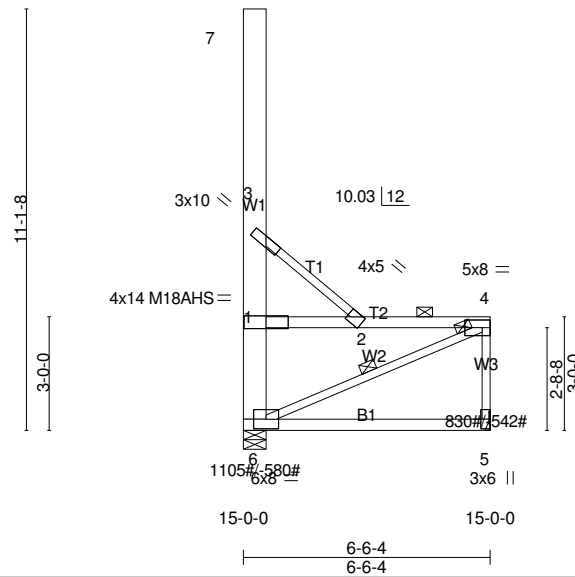


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.91	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	5-6	>761	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-12 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=850/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=579(LC 10)
Max Uplift 6=580(LC 10), 5=542(LC 11)
Max Grav 6=1105(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1008/413, 1-3=-768/628, 1-2=-1320/1144, 2-4=-1644/1339, 4-5=-839/852,
2-3=-899/975
WEBS 4-6=-1459/1816

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-15, Interior(1) 3-1-15 to 6-5-0 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
- TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=580, 5=542.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

**RELEASED FOR
CONSTRUCTION**
As Noted on Plans Review

Oswest, Indiana, Series #90-208-Argent
Lee's Summit, Missouri
09/08/2022

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTekInstruments.com File: Aug 5 19:42:09 2020 Page 2
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Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J14	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In: Fri Aug 5 19:42:19 2022 Broom ID: Pma1Jn0odbA7zg9cdwkOzgz39-agllSdBH0bYhAEBK1H7B6r4D4Hz1PBW6ELG9gquib

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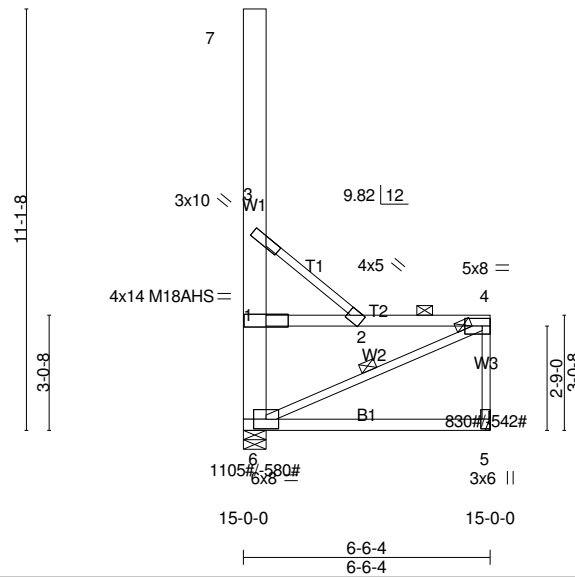


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.90	Vert(LL) -0.05 5-6 >999 360	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.10 5-6 >760 240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) -0.01 5-6 >999 240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-14 max.): 3-7, 1-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-6

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

REACTIONS.

(lb/size) 6=850/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=-579(LC 10)
Max Uplift 6=-580(LC 10), 5=-542(LC 11)
Max Grav 6=1105(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1009/407, 1-3=-765/618, 1-2=-1311/1124, 2-4=-1616/1324, 4-5=-836/851,
2-3=-895/979
WEBS 4-6=-1448/1793

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-1-15, Interior(1) 3-1-15 to 6-5-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=580, 5=542.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

**RELEASED FOR
CONSTRUCTION**
As Noted on Plans Review

09/08/2022

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITekIntel Development Services Department
ID:Pma1Jn0odbAt7vg9cdwkOzgz39-agllSdBH0bYhAEBK1H7BoRADHiz1PBiw6ELG9vqulB

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-13
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-187-to-2=-134
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J15	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTe

ID:Pma11Jn0odbAt7yg9cdwkOzg39-agllSdBH0b

5-7-0 6-6-4 6-5-0-0

5-7-0 0-11-4

Scale = 1:60.8

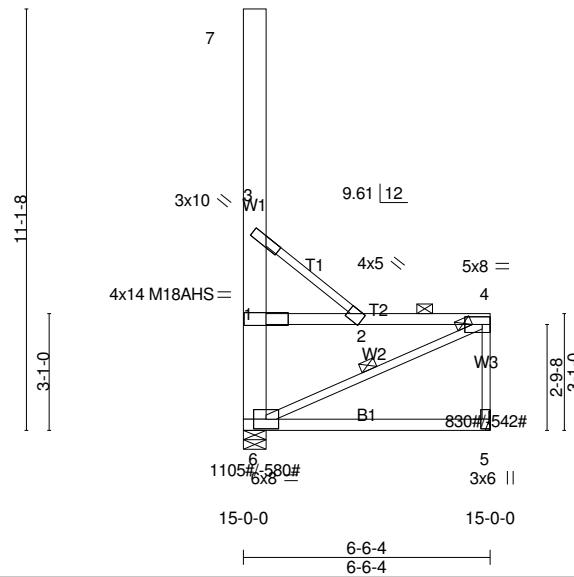


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL) -0.05 5-6 >999 360	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.10 5-6 >759 240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) -0.01 5-6 >999 240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-13 max.): 3-7, 1-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-6

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

REACTIONS.

(lb/size) 6=850/0-7-4 (min. 0-1-12), 5=501/Mechanical
 Max Horz 6=-579(LC 12)
 Max Uplift 6=-580(LC 10), 5=-542(LC 11)
 Max Grav 6=1105(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1009/402, 1-3=-763/608, 1-2=-1303/1105, 2-4=-1588/1308, 4-5=-833/850,
2-3=-890/984
WEBS 4-6=-1438/1770

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-0, Interior(1) 3-2-0 to 6-5-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=580, 5=542.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J15	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek International, Inc. File: C:\Users\jgarcia\Desktop\221102\221102.dwg
ID: Pmal1Jn0odbAt7yg9cdwkOzgz39-agllSdBH0bYhAEBK1H7BbRAEQIz-1PCjw6ELG9yquiB

Development Services Department

Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-13
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-187-to-2=-134
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J16	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek

15-0-0 ID:Pma11JnUodhAt/yg9cdwkOzgz39-2sJggzCvny
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5-7-8 0-10-12

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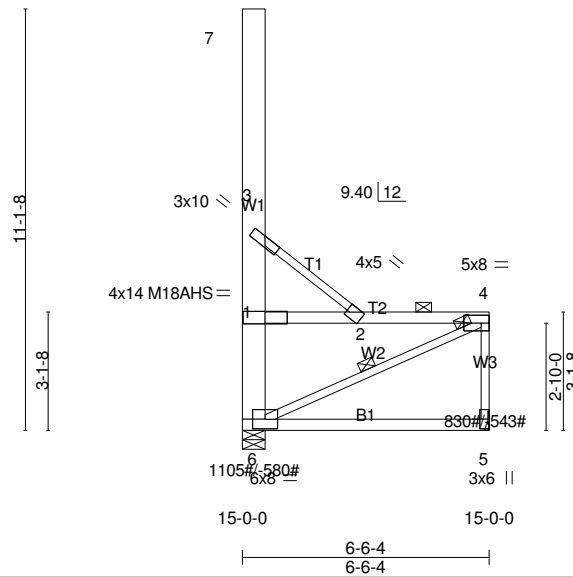


Plate Offsets (X,Y)-- [5:Edge,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.10	5-6	>758	240	M18AHS	142/136
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-11 max.): 3-7, 1-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-6

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

REACTIONS.

(lb/size) 6=850/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=-579(LC 10)
Max Uplift 6=-580(LC 10), 5=-543(LC 11)
Max Grav 6=1105(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1009/396, 1-3=-760/598, 1-2=-1295/1086, 2-4=-1560/1294, 4-5=-830/850,
2-3=-886/989
WEBS 4-6=-1428/1748

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-0, Interior(1) 3-2-0 to 6-5-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=580, 5=543.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

**RELEASED FOR
CONSTRUCTION**
As Noted on Plans Review

**Missouri Department of
Public Safety**
Lee's Summit, Missouri
09/08/2022

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In Development File: 5.101921-2323_Brm_C
ID:Pma1Jn0odbAt7Yg9cdwkOzg39-2sJggzCvvnvYnOmWla_eQ/ecPlilDmsIs9m_ubcvqguIA

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-13
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-187-to-2=-133
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-122-to-4=-61, 3=-175-to-2=-122
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J17	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTe

ID:Pma11Jn0qdbAt7yg9cdwkOzgz39-W3s2tID

5-8-0 6-6-4

5-8-0 0-10-4

Scale = 1:60.8

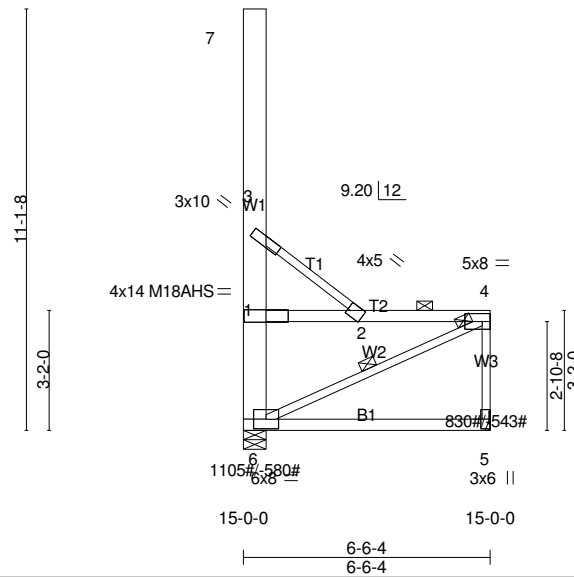


Plate Offsets (X,Y)-- [5:Edge,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.10	5-6	>757	240	M18AHS	142/136
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-1-15 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-12 max.): 3-7, 1-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-6

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

REACTIONS.

(lb/size) 6=850/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=-578(LC 10)
Max Uplift 6=-580(LC 10), 5=-543(LC 11)
Max Grav 6=1105(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1010/390, 1-3=-758/588, 1-2=-1288/1067, 2-4=-1533/1279, 4-5=-826/849,
2-3=-882/994
WEBS 4-6=-1418/1725

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-1, Interior(1) 3-2-1 to 6-5-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=580, 5=543.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J17	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102

ID: Pmal1Jn0odbAt7yg9cdwkOzg39-W3s2tlDXCoPPYK18ig9s9aB5eSVik00QlRL2yqui9

Development Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-13
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-187-to-2=-133
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-175-to-2=-121
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-175-to-2=-121
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	CONSTRUCTION As Noted on Plans Review
221102	J18	FLAT	2	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. File: Aug 5 194216 2023 Page: 1

ID:Pma11Jn0odbAt7yg9cdwkOzg39-?FQQ5eD9JWxG1ivviPauC3il3V_hEl?9c4T?Uyqui8

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5-8-8 0-9-12

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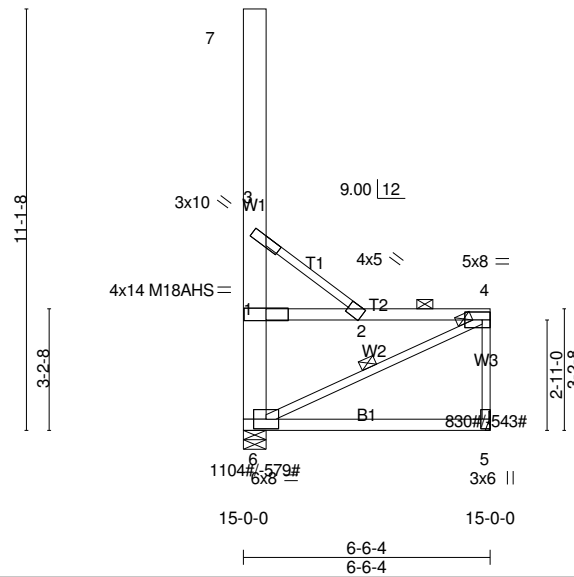


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) -0.05 5-6 >999 360	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.10 5-6 >756 240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) -0.01 5-6 >999 240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-13 max.): 3-7, 1-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-6

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

REACTIONS.

(lb/size) 6=850/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=-578(LC 12)
Max Uplift 6=-579(LC 10), 5=-543(LC 11)
Max Grav 6=1104(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1010/385, 1-3=-755/577, 1-2=-1281/1048, 2-4=-1505/1265, 4-5=-822/848,
2-3=-877/1000
WEBS 4-6=-1408/1702

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-1, Interior(1) 3-2-1 to 6-5-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=579, 5=543.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J19	FLAT	2	1		
Wheeler Lumber, Waverly, KS 66871						Job Reference (optional)

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Inverted Service Department

ID:Pma1Jn0odpA7vg9cdwkOzg39-TR_ol_En4q37erU5G6B7IHewvyKwzCGJrCYpWwqui7

Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

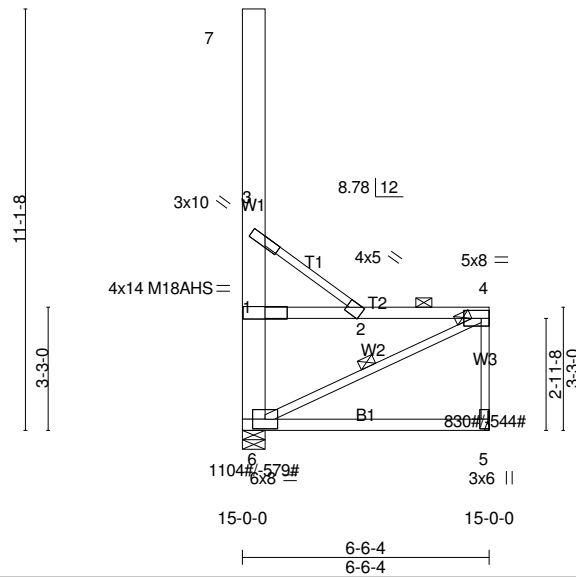


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.10	5-6	>755	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.57	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-11 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=850/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=-578(LC 10)
Max Uplift 6=-579(LC 10), 5=-544(LC 11)
Max Grav 6=1104(LC 20), 5=830(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1011/379, 1-3=-752/567, 1-2=-1275/1029, 2-4=-1478/1251, 4-5=-818/847,
2-3=-873/1006
WEBS 4-6=-1399/1679

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-2, Interior(1) 3-2-2 to 6-5-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=579, 5=544.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J19	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITek Inc. v10.0.0.0 08/16/2021 10:28:00

ID:Pma1Jn0odbAt7yg9cdwkOzg39-TR_ol_En4q37erU5G6B7IHewvyKwzCGJrCYPwyqui7

Development Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-12
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-187-to-2=-133
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-175-to-2=-121
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-175-to-2=-121
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J20	FLAT	2	1	
Job Reference (optional)					

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house File: 10424 020 000

ID: Pma11Jn00dpAt7yg9cdwkOzg39-TR_ol_En4q37erU5G6B7JHEw5vkVzCHrjCYPwvqui7

Oswel Cement Services Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

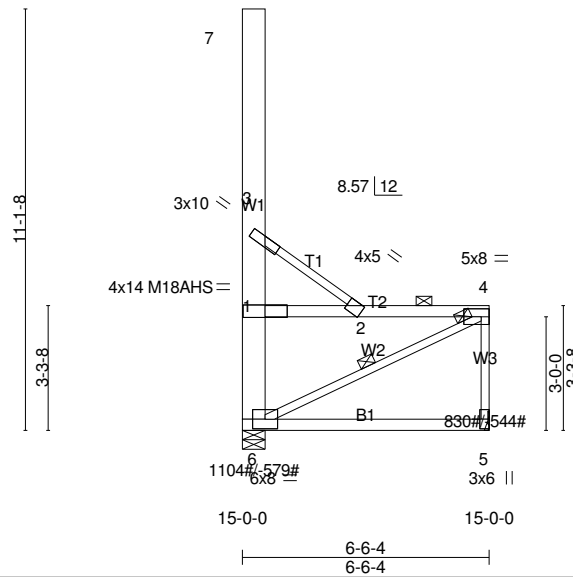


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.84	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	5-6	>754	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.57	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240		
									Weight: 57 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-10 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=851/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=-578(LC 10)
Max Uplift 6=-579(LC 10), 5=-544(LC 11)
Max Grav 6=1104(LC 20), 5=830(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-1011/373, 1-3=-750/556, 1-2=-1270/1010, 2-4=-1450/1238, 4-5=-813/846,
2-3=-869/1012
WEBS 4-6=-1390/1656

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-2, Interior(1) 3-2-2 to 6-5-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=579, 5=544.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J20	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102
ID:Pmal1Jn0odbAt7yg9cdwkOzg39-TR_ol_En4q37erU5G6B7JHEw5yKyzCHrjCYPwqui7Oswald County Sheriff's Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-60, 3=-174-to-2=-121
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-12
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-186-to-2=-133
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-175-to-2=-121
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
 - Trapezoidal Loads (plf)
 - Vert: 1=-114-to-2=-61, 2=-121-to-4=-61, 3=-175-to-2=-121
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J21	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTel

ID:Pma11Jn0ocbAt7yg9cdwkOzgz39-xeYBWKF

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5-10-0 0-8-4

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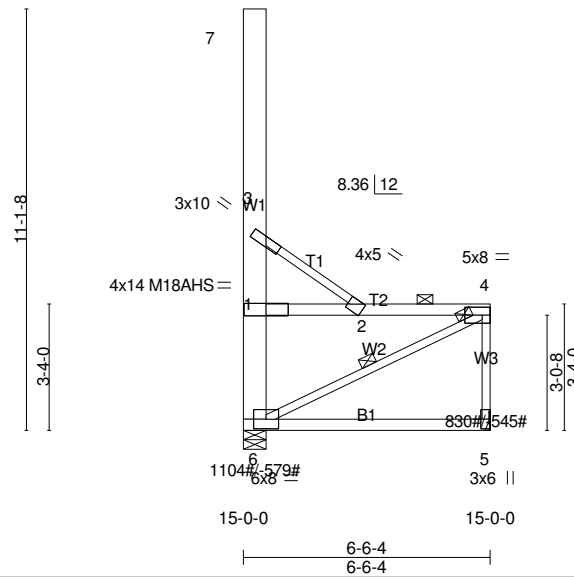


Plate Offsets (X,Y)-- [5:Edge,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	5-6	>753	240	M18AHS	142/136
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	-0.01	5-6	>999	240	Weight: 58 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-9 max.): 3-7, 1-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-6

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

REACTIONS.

(lb/size) 6=851/0-7-4 (min. 0-1-12), 5=501/Mechanical
Max Horz 6=-578(LC 10)
Max Uplift 6=-579(LC 10), 5=-545(LC 11)
Max Grav 6=1104(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1011/366, 1-3=-747/545, 1-2=-1265/992, 2-4=-1423/1225, 4-5=-808/845,
2-3=-865/1019
WEBS 4-6=-1382/1633

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-3, Interior(1) 3-2-3 to 6-5-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=579, 5=545.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J21	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Internal Use Only
ID:Pmal1Jn0odbAt7yg9cdwkOzg39-xeYBWKFP7B_G?3HpoimLU5uJq8ifXS4Nv6xNyquib6Development Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-120-to-4=-60, 3=-174-to-2=-120
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-12
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-186-to-2=-132
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-175-to-2=-121
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-175-to-2=-121
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J22	FLAT	2	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house, File: 6-10-2021 08:28:00

ID: Pmal1Jn00dAt7yg9cdwkOzgZ39-Pq6ZjgG1cRjq9eUNXDbqUGa10NR6op1tHtUpqui5

Development Services Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

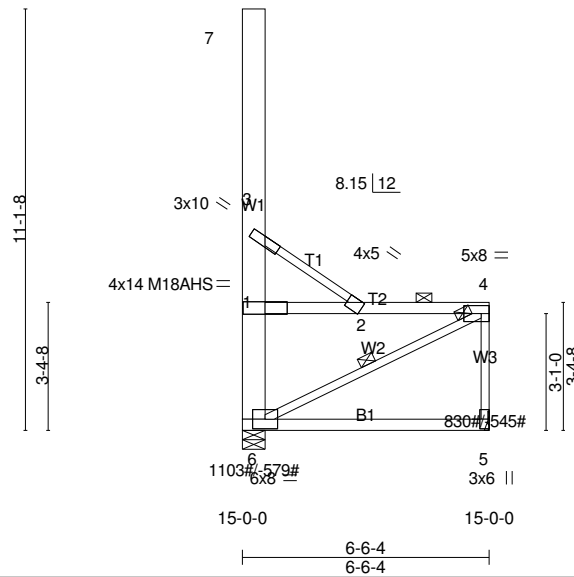


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	5-6	>753	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.57	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240		
									Weight: 58 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-10 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=851/0-7-4 (min. 0-1-12), 5=502/Mechanical
Max Horz 6=-578(LC 12)
Max Uplift 6=-579(LC 10), 5=-545(LC 11)
Max Grav 6=1103(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1012/360, 1-3=-744/535, 1-2=-1260/973, 2-4=-1396/1212, 4-5=-803/843,
2-3=-860/1026
WEBS 4-6=-1373/1610

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-4, Interior(1) 3-2-4 to 6-5-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=579, 5=545.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J22	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102

ID:Pmal1Jn0odbAt7yg9cdwkOzgZ39-Pq6ZjgG1cRjqu9eUNXBqUjGai0NR6op11htUpqui5

Development Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-222-to-2=-151
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-120-to-4=-60, 3=-174-to-2=-120
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-12
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-186-to-2=-132
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-175-to-2=-121
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-175-to-2=-121
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-81, 2=-151-to-4=-70, 3=-182-to-2=-111

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J23	FLAT	2	1	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house Development Services Department

ID: Pmal1Jn00dAt7yg9cdwkOzg39-t0gxw0HgNIRhVJDgxFlqNvsRE6LcAZ1XhRC0Fyqu14

Lee's Summit, Missouri
09/08/2022

Scale = 1:60.8

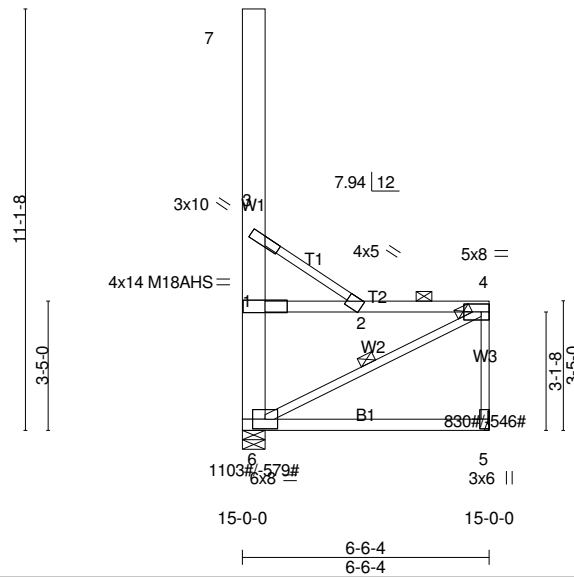


Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	5-6	>752	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.57	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 58 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-8 max.): 3-7, 1-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

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

REACTIONS. (lb/size) 6=851/0-7-4 (min. 0-1-12), 5=502/Mechanical
Max Horz 6=-578(LC 12)
Max Uplift 6=-579(LC 10), 5=-546(LC 11)
Max Grav 6=1103(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1012/354, 1-3=-741/524, 1-2=-1256/954, 2-4=-1369/1200, 4-5=-798/842,
2-3=-856/1034
WEBS 4-6=-1365/1587

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-4, Interior(1) 3-2-4 to 6-5-0 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=579, 5=546.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J23	FLAT	2	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: F:\Users\j\Documents\2021\221102\221102.dwg
ID: Pmal1Jn0odbAt7yg9cdwkOzgZ39-t0gxw0HgNIRhVJDgxFlqNvsRE6LcAZT1XhRC0Fyqui4Development Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-80, 2=-150-to-4=-70, 3=-222-to-2=-150
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-120-to-4=-60, 3=-174-to-2=-120
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-11
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-186-to-2=-132
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-175-to-2=-121
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-175-to-2=-121
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-80, 2=-150-to-4=-70, 3=-182-to-2=-110

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J24	FLAT	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102
ID: Pmal1Jn0odbAt7yg9cdwkOzgz39-LDEJ8MH172ZY7TosVVG3y7PcvWhry0IumLAmYivqui3Development Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-80, 2=-150-to-4=-70, 3=-222-to-2=-150
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-120-to-4=-60, 3=-174-to-2=-120
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-11
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-185-to-2=-131
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-175-to-2=-121
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-175-to-2=-121
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-80, 2=-150-to-4=-70, 3=-182-to-2=-110

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J25	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. Fri Aug 5 10:42:18 2023 Page 1

ID:Pma11Jn0odbAt7yg9cdwkOzgZ39-LDEJ8MHI72ZY7TosVyG3v7PcaWhqv0lumLAmYiyqui3

6-0-0 6-6-4

6-0-0	0-6-4
-------	-------

Scale = 1:60.8

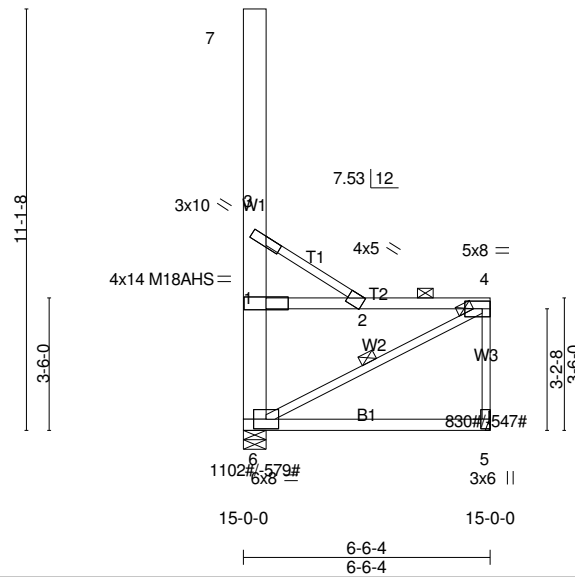


Plate Offsets (X,Y)-- [5:Edge,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	5-6	>750	240	M18AHS	142/136
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	-0.01	5-6	>999	240	Weight: 58 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-8 max.): 3-7, 1-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-6

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

REACTIONS.

(lb/size) 6=851/0-7-4 (min. 0-1-12), 5=502/Mechanical
Max Horz 6=-577(LC 10)
Max Uplift 6=-579(LC 10), 5=-547(LC 11)
Max Grav 6=1102(LC 20), 5=830(LC 19)

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

TOP CHORD 1-6=-1013/341, 1-3=-735/501, 1-2=-1250/917, 2-4=-1316/1175, 4-5=-786/840,
2-3=-848/1051
WEBS 4-6=-1349/1541

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-6, Interior(1) 3-2-6 to 6-5-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=579, 5=547.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

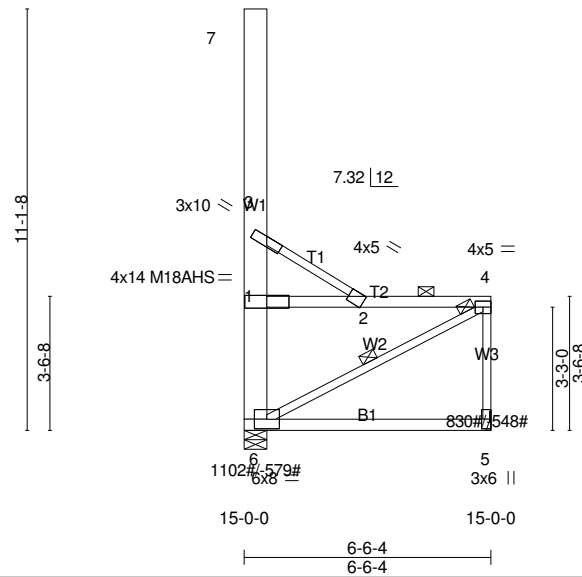
Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. Fri Aug 5 12:42:19 2023 Page 1

ID:Pmal1Jn0odbAt7yg9cdwkOzgZ39-pPnhLilwUjMhPldN32gnlSKxnUw13eTY2??wJ58yqui2

15-0-0 6-0-8 6-0-8 15-0-0 6-6-4 0-5-12

Scale = 1:60.8

Plate Offsets (X,Y)-- [5:Edge,0-2-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.05 5-6 >999 360	MT20	197/144
TCDL 15.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.10 5-6 >749 240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr NO	WB 0.56	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IBC2018/TPI2014	Matrix-S	Wind(LL) -0.01 5-6 >999 240	Weight: 58 lb	FT = 10%

TOP CHORD 2x4 SPF No.2 *Except*
T1: 2x3 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W1: 2x8 SP DSS

TOP CHORD	Structural wood sheathing directly applied or 5-3-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-6 max.): 3-7, 1-4.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 4-6

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

Max Horz 6=-577(LC 10)
Max Uplift6=-579(LC 10), 5=-548(LC 11)
Max Grav 6=1102(LC 20), 5=830(LC 19)

TOP CHORD 1-6=-1013/334, 1-3=-732/490, 1-2=-1248/898, 2-4=-1290/1164, 4-5=-780/838,
2-3=-844/1060
WEBS 4-6=-1342/1518

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00 and 6 = 0.00

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=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-10 to 3-2-6, Interior(1) 3-2-6 to 6-5-0 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=579, 5=548.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 19, 20, 21, 22, 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J26	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102

ID: Pma11Jn0odbAt7yg9cdwkOzg39-pPhnLilwuMhPldN32qnlSKxnDw13eTV2??w158vqui2

Oswald Cement Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-80, 2=-150-to-4=-70, 3=-222-to-2=-150
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-120-to-4=-60, 3=-174-to-2=-120
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=25, 1-3=25, 3-7=45, 4-5=7, 2-3=10
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-165-to-2=-111
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-7, 1-3=-7, 3-7=-45, 4-5=-25, 2-3=-11
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-185-to-2=-131
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-175-to-2=-121
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 5-6=-20
Horz: 1-6=-12, 1-3=-12, 3-7=-30, 4-5=12, 2-3=-1
Trapezoidal Loads (plf)
Vert: 1=-114-to-2=-60, 2=-121-to-4=-61, 3=-175-to-2=-121
- 27) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 5-6=-20
Trapezoidal Loads (plf)
Vert: 1=-152-to-2=-80, 2=-150-to-4=-70, 3=-182-to-2=-110

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J27	FLAT	1	1	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Date: 08/16/2021

ID: Pmal1Jn0gdbAt7yg9cdwkOzgz39-HbL4Z2JYfpGMmyF6NIX_VU2OKMcNFTBDfisdavqui1

Oswald Engineering Department
Lee's Summit, Missouri

09/08/2022

Scale = 1:85.1

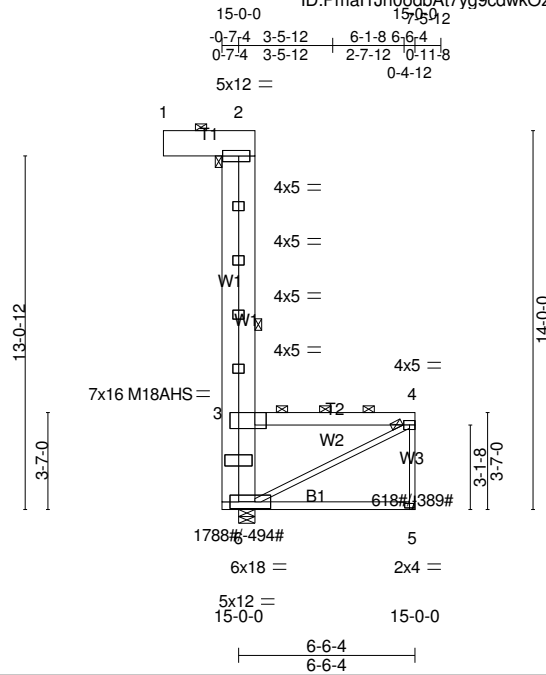


Plate Offsets (X,Y)-- [2:0-5-0,0-2-8], [3:0-5-0,Edge], [6:0-7-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.12	5-6	>654	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240		
									Weight: 123 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
T1: 2x12 DF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x8 SP DSS *Except*
W3,W2: 2x3 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 3-4, 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-6

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

REACTIONS. (lb/size) 6=1788/0-7-4 (min. 0-2-13), 5=501/Mechanical
Max Horz 6=-472(LC 12)
Max Uplift 6=-494(LC 10), 5=-389(LC 14)
Max Grav 6=1788(LC 1), 5=618(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-6=-1681/368, 2-3=-642/193, 3-4=-908/742, 4-5=-556/479
WEBS 4-6=-775/1016

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00 and 6 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=494, 5=389.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard Except:

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J27	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITek Inc. v10.1.0.0
ID:Pma11Jn0odbAt7yg9cdwkOzg39-HbL4Z2JYtpGMmyFcNIX_VU2OKMcNfTBDfssdayqui1Oswald County, Missouri
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard Except:

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-403-to-4=-70, 1=-261-to-2=-203
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-160-to-4=-60, 1=-203-to-2=-160
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-363-to-4=-30, 1=-261-to-2=-203
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 3-6=25, 2-3=25, 4-5=7
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 3-6=-7, 2-3=-7, 4-5=-25
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 3-6=-12, 2-3=-12, 4-5=12
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Horz: 3-6=-12, 2-3=-12, 4-5=12
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-403-to-4=-70, 1=-261-to-2=-203

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J28	FLAT	1	1	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision 1.0.0.0
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Released for Construction Department
Lee's Summit, Missouri
09/08/2022

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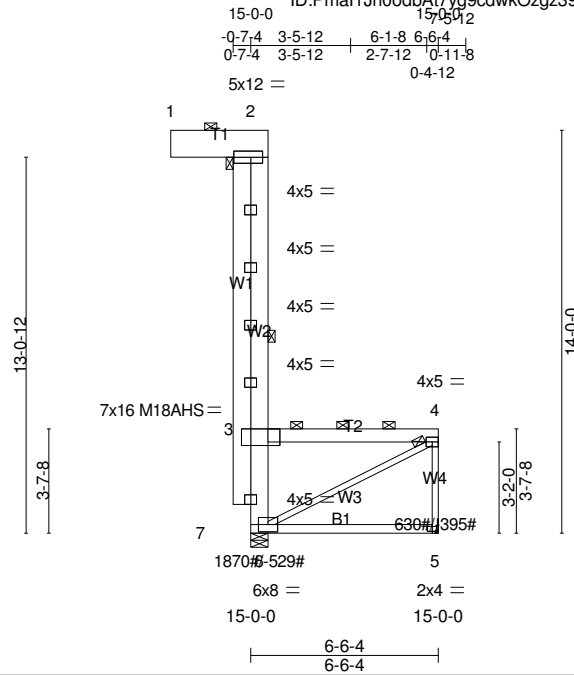


Plate Offsets (X,Y)-- [2:0-5-0,0-2-8], [3:0-5-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	5-6	>743	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.83	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240		
									Weight: 120 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
T1: 2x12 DF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x8 SP DSS *Except*
W4,W3: 2x3 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 3-4, 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-6

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

REACTIONS. (lb/size) 6=1870/0-7-4 (min. 0-2-15), 5=412/Mechanical
Max Horz 6=-473(LC 12)
Max Uplift 6=-529(LC 10), 5=-395(LC 14)
Max Grav 6=1870(LC 1), 5=630(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-1683/366, 3-7=-1696/343, 2-3=-642/193, 3-4=-882/723, 4-5=-571/470
WEBS 4-6=-762/1001

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00 and 7 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=529, 5=395.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard Except:

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J28	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-Service Department

ID:Pma1Jn0odbAt7yg9cdwkOzg39-movSmNKAQzk7_wWRA5pmX1tDCKiW6JtKSJPO91vqui0

Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard Except:

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-403-to-4=-70, 1=-261-to-2=-203
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-160-to-4=-60, 1=-203-to-2=-160
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-363-to-4=-30, 1=-261-to-2=-203
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=-25, 5-6=-20
 - Horz: 3-6=25, 2-3=25, 4-5=7
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=7, 5-6=-20
 - Horz: 3-6=-7, 2-3=-7, 4-5=-25
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=12, 5-6=-20
 - Horz: 3-6=-12, 2-3=-12, 4-5=12
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=12, 5-6=-20
 - Horz: 3-6=-12, 2-3=-12, 4-5=12
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-403-to-4=-70, 1=-261-to-2=-203

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J29	FLAT	1	1	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision 3.0.0.0 Job Reference (optional)

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Oswald Engineering Department
Lee's Summit, Missouri

09/08/2022

Scale = 1:80.1

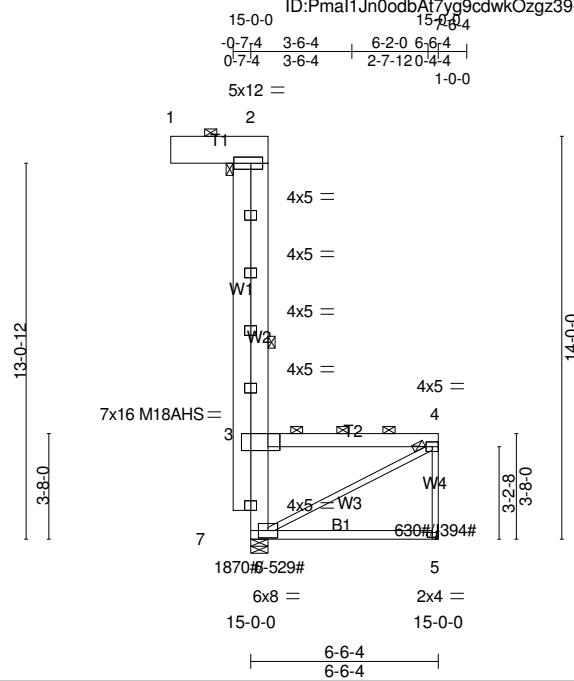


Plate Offsets (X,Y)-- [2:0-5-0,0-2-8], [3:0-5-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	5-6	>742	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.83	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240		
									Weight: 120 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
T1: 2x12 DF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x8 SP DSS *Except*
W4,W3: 2x3 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 3-4, 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-6

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

REACTIONS. (lb/size) 6=1870/0-7-4 (min. 0-2-15), 5=412/Mechanical
Max Horz 6=-473(LC 12)
Max Uplift 6=-529(LC 10), 5=-394(LC 14)
Max Grav 6=1870(LC 1), 5=630(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-1683/367, 3-7=-1695/344, 2-3=-642/193, 3-4=-871/714, 4-5=-571/471
WEBS 4-6=-753/992

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00 and 7 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=529, 5=394.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard Except:

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J29	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-Service Department
ID:Pma1Jn0odbAt7yg9cdwkOzgz39-movSmNKAQzx7_wwRA5bmX11DGkiW6JyKSJPO91vqui0Oswald County Sheriff's Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard Except:

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-403-to-4=-70, 1=-261-to-2=-203
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-160-to-4=-60, 1=-203-to-2=-160
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-363-to-4=-30, 1=-261-to-2=-203
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=-25, 5-6=-20
 - Horz: 3-6=25, 2-3=25, 4-5=7
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=7, 5-6=-20
 - Horz: 3-6=-7, 2-3=-7, 4-5=-25
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=12, 5-6=-20
 - Horz: 3-6=-12, 2-3=-12, 4-5=12
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=12, 5-6=-20
 - Horz: 3-6=-12, 2-3=-12, 4-5=12
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-403-to-4=-70, 1=-261-to-2=-203

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J30	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. File: C:\Users\j\Documents\2021\221102\221102.dwg

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Oswald Engineering Department
Lee's Summit, Missouri
09/08/2022

Scale = 1:80.1

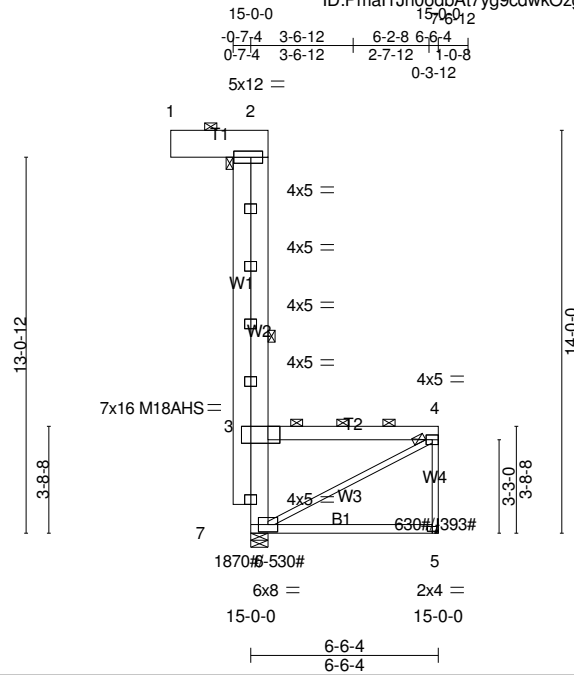


Plate Offsets (X,Y)-- [2:0-5-0,0-2-8], [3:0-5-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	5-6	>741	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.82	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240		
									Weight: 120 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
T1: 2x12 DF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x8 SP DSS *Except*
W4,W3: 2x3 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 3-4, 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-6

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

REACTIONS. (lb/size) 6=1870/0-7-4 (min. 0-2-15), 5=412/Mechanical
Max Horz 6=-473(LC 12)
Max Uplift 6=-530(LC 10), 5=-393(LC 14)
Max Grav 6=1870(LC 1), 5=630(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-1684/367, 3-7=-1695/345, 2-3=-642/193, 3-4=-860/705, 4-5=-571/472
WEBS 4-6=-744/984

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00 and 7 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=530, 5=393.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard Except:

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J30	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102

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Development Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard Except:

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-403-to-4=-70, 1=-261-to-2=-203
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-160-to-4=-60, 1=-203-to-2=-160
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-363-to-4=-30, 1=-261-to-2=-203
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=-25, 5-6=-20
 - Horz: 3-6=25, 2-3=25, 4-5=7
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=7, 5-6=-20
 - Horz: 3-6=-7, 2-3=-7, 4-5=-25
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=12, 5-6=-20
 - Horz: 3-6=-12, 2-3=-12, 4-5=12
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 3-7=12, 5-6=-20
 - Horz: 3-6=-12, 2-3=-12, 4-5=12
 - Trapezoidal Loads (plf)
 - Vert: 3=-161-to-4=-61, 1=-198-to-2=-155
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 5-6=-20
 - Trapezoidal Loads (plf)
 - Vert: 3=-403-to-4=-70, 1=-261-to-2=-203

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J31	FLAT	1	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. File: C:\Users\j31\AppData\Local\Temp\20210816\221102\Truss\221102.dwg

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Oswald Engineering Department

Lee's Summit, Missouri

09/08/2022

Scale = 1:80.1

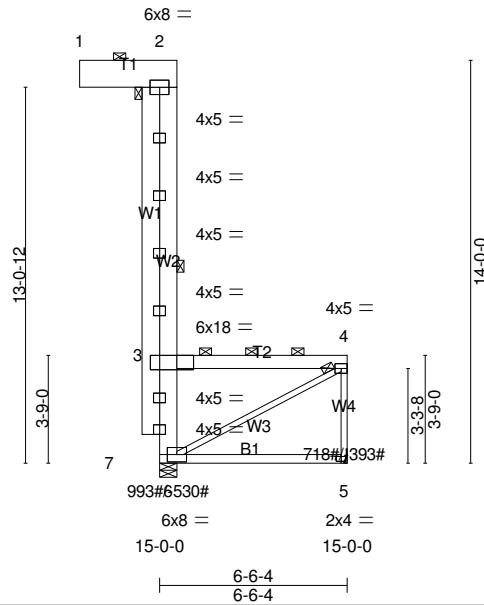


Plate Offsets (X,Y)-- [3:0-7-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	5-6	>741	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.82	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	5-6	>999	240	Weight: 117 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x12 DF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x8 SP DSS *Except*
W4,W3: 2x3 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 3-4, 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-6

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

REACTIONS. (lb/size) 6=993/0-7-4 (min. 0-1-9), 5=414/Mechanical
Max Horz 6=-474(LC 12)
Max Uplift 6=-530(LC 10), 5=-393(LC 14)
Max Grav 6=993(LC 1), 5=718(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-915/366, 3-7=-909/345, 3-4=-855/700, 4-5=-659/472
WEBS 4-6=-741/980

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 7 = 0.00 and 7 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=530, 5=393.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J31	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Interiors, Inc. File: C:\ProgramData\MiTek\Truss Designer\Projects\221102\221102.dwg

ID: Pmal1Jn0odbAt7yg9cdwkOzg39-iA1CB3LQybBrDEgqHVSEcA6VlXPzabUdwduXEvyqui_

Oswald County, Missouri
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 5-6=-20, 1-2=-70

Trapezoidal Loads (plf)

Vert: 3=-270-to-4=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 5-6=-20, 1-2=-60

Trapezoidal Loads (plf)

Vert: 3=-210-to-4=-60

18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 5-6=-20, 1-2=-70

Trapezoidal Loads (plf)

Vert: 3=-230-to-4=-30

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-25, 5-6=-20, 1-2=-56

Horz: 3-6=25, 2-3=25, 4-5=7

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=7, 5-6=-20, 1-2=-56

Horz: 3-6=-7, 2-3=-7, 4-5=-25

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=12, 5-6=-20, 1-2=-56

Horz: 3-6=-12, 2-3=-12, 4-5=12

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=12, 5-6=-20, 1-2=-56

Horz: 3-6=-12, 2-3=-12, 4-5=12

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

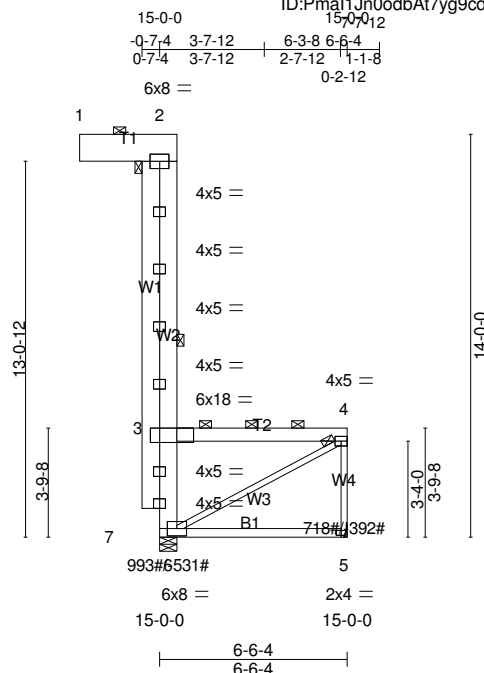
Vert: 5-6=-20, 1-2=-70

Trapezoidal Loads (plf)

Vert: 3=-270-to-4=-70

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTel
ID:Pma11Jn0odbAt7yq9cdwkOzqz39-AMbaOPM



Scale = 1:80.1

Weight: 118 lb FT = 10%

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x12 SP No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x8 SP DSS *Except*
W4 W3: 2x3 SPF No.2

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 3-4, 1-2, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 2-6

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

REACTIONS. (lb/size) 6=993/0-7-4 (min. 0-1-9), 5=414/Mechanical
Max Horz 6=-474(LC 12)
Max Uplift 6=-531(LC 10), 5=-392(LC 14)
Max Grav 6=993(LC 1). 5=718(LC 20)

TOP CHORD 6-7=-915/366, 3-7=-909/346, 3-4=-845/692, 4-5=-659/473
WEBS 4-6=-733/972

2 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 7 = 0.00 and 7 = 0.00

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=531, 5=392.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

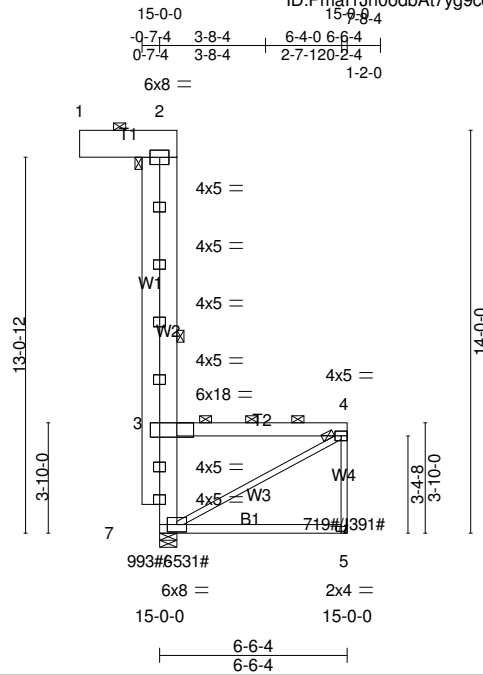
1) Dead + Snow (balanced): Lumber Increase=1.15. Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J33	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. Fri Aug 5 19:42:24 2023 Page 1

ID:Pma11Jn0odbAt7yg9cdwkOzgZ39-AMbaOPM3juJirOF0rDNT9Ofg3xkCJgtn8Hd4ILyquhz



Scale = 1:80.1

Plate Offsets (X,Y)-- [3:0-7:0,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	5-6	>740	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	-0.01	5-6	>999	240	Weight: 117 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x12 DF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x8 SP DSS *Except*
W4,W3: 2x3 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 3-4, 1-2, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 2-6

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

REACTIONS.

(lb/size) 6=993/0-7-4 (min. 0-1-9), 5=414/Mechanical
Max Horz 6=-475(LC 12)
Max Uplift 6=-531(LC 10), 5=-391(LC 14)
Max Grav 6=993(LC 1), 5=719(LC 20)

FORCES.

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

TOP CHORD 6-7=-916/367, 3-7=-909/347, 3-4=-835/684, 4-5=-659/473
WEBS 4-6=-725/963

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 7 = 0.00 and 7 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=531, 5=391.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J33	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job File: C:\Users\j33\OneDrive\Documents\221102\221102.dwg
ID: Pma11Jn0odbAt7yg9cdwkOzgz39-eZ9zclNhUCRZTYqCPwuitbbBcpl4R277wnXNdHovquhy

Development Services Department

Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 5-6=-20, 1-2=-70

Trapezoidal Loads (plf)

Vert: 3=-270-to-4=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 5-6=-20, 1-2=-60

Trapezoidal Loads (plf)

Vert: 3=-210-to-4=-60

18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 5-6=-20, 1-2=-70

Trapezoidal Loads (plf)

Vert: 3=-230-to-4=-30

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-25, 5-6=-20, 1-2=-56

Horz: 3-6=25, 2-3=25, 4-5=7

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=7, 5-6=-20, 1-2=-56

Horz: 3-6=-7, 2-3=-7, 4-5=-25

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=12, 5-6=-20, 1-2=-56

Horz: 3-6=-12, 2-3=-12, 4-5=12

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=12, 5-6=-20, 1-2=-56

Horz: 3-6=-12, 2-3=-12, 4-5=12

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

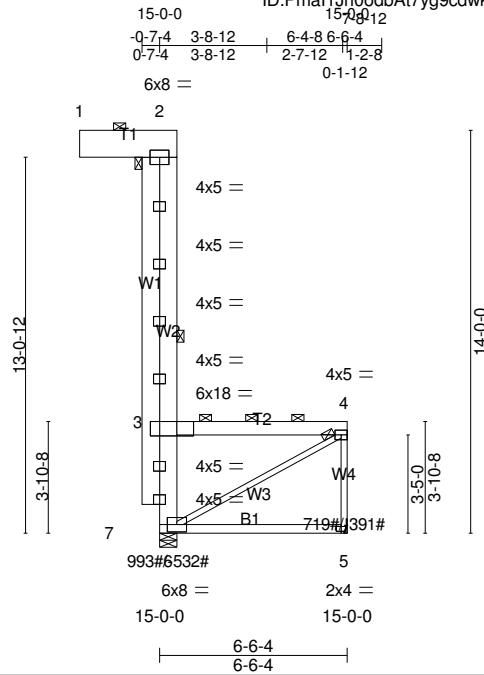
Vert: 5-6=-20, 1-2=-70

Trapezoidal Loads (plf)

Vert: 3=-270-to-4=-70

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Inc. Dev. Aug 5 11:49:25 2021 Page 1
ID:Pma1Jn0odbAt7yg9cdwkOzg39-eZ9zclNhUCRZTYqCPWuqibBml4R27BwNcXNdHoxquhy



Scale = 1:80.1

Weight: 117 lb FT = 10%

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x12 DF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x8 SP DSS *Except*
W4,W3: 2x3 SPF No.2

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 3-4, 1-2, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 2-6

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

REACTIONS. (lb/size) 6=993/0-7-4 (min. 0-1-9), 5=414/Mechanical
Max Horz 6=-475(LC 12)
Max Uplift 6=-532(LC 10), 5=-391(LC 14)
Max Grav 6=993(LC 1), 5=719(LC 20)

TOP CHORD 6-7=-916/367, 3-7=-910/348, 3-4=-825/676, 4-5=-659/474
WEBS 4-6=-717/956

2 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 7 = 0.00 and 7 = 0.00

- 1) Wind: ASCE 7-16; Vult=115mph(3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=532, 5=391.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J34	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job File: US-194225-022-000

ID: Pmal1Jn0odbAt7yg9cdwkOzgZ39-eZ9zclNhUCRZTYqCPWuihbBcol4P27BwNkNdHovquhy

Development Services Department

Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 5-6=-20, 1-2=-70

Trapezoidal Loads (plf)

Vert: 3=-270-to-4=-70

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 5-6=-20, 1-2=-60

Trapezoidal Loads (plf)

Vert: 3=-210-to-4=-60

18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 5-6=-20, 1-2=-70

Trapezoidal Loads (plf)

Vert: 3=-230-to-4=-30

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-25, 5-6=-20, 1-2=-56

Horz: 3-6=25, 2-3=25, 4-5=7

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=7, 5-6=-20, 1-2=-56

Horz: 3-6=-7, 2-3=-7, 4-5=-25

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=12, 5-6=-20, 1-2=-56

Horz: 3-6=-12, 2-3=-12, 4-5=12

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=12, 5-6=-20, 1-2=-56

Horz: 3-6=-12, 2-3=-12, 4-5=12

Trapezoidal Loads (plf)

Vert: 3=-211-to-4=-61

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

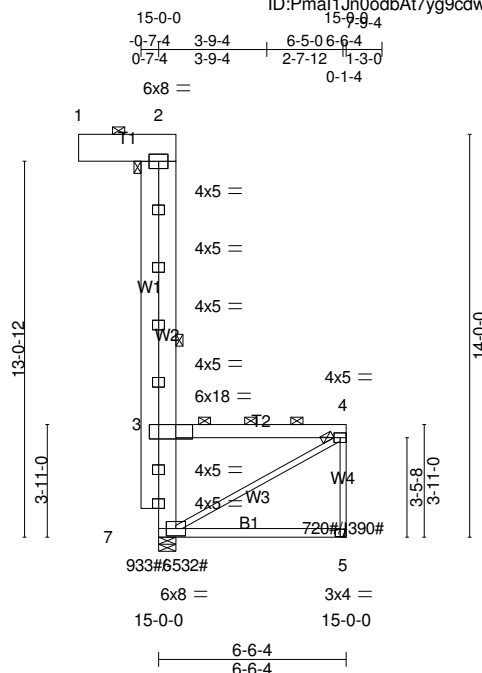
Vert: 5-6=-20, 1-2=-70

Trapezoidal Loads (plf)

Vert: 3=-270-to-4=-70

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITek InStr Development Services Department
ID: Pma1Jn0odbAt7yg9cdwkOzg39-6liLp5NJFWZQ4nPPzPeXEpK4PiLFmaV4c6BpEvguhx



Scale = 1:80.1

Weight: 119 lb FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x12 SP No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x8 SP DSS *Except*
W4.W3: 2x3 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 3-4, 1-2, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 2-6

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

REACTIONS.

(lb/size) 6=933/0-7-4 (min. 0-1-8), 5=415/Mechanical
Max Horz 6=-475(LC 12)
Max Uplift 6=-532(LC 10), 5=-390(LC 14)
Max Grav 6=933(LC 1), 5=720(LC 20)

FORCES.

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

TOP CHORD 6-7=-446/367, 3-7=-448/348, 3-4=-815/668, 4-5=-573/474
WEBS 4-6=-709/948

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 7 = 0.00 and 7 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=532, 5=390.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15. Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J35	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: F:\Jobs\6104225\088\Bent
ID: Pma11Jn0odbAt7yg9cdwkOgz39-6ljLp5NJFWZQ4hPPzePxEpK4PILFmaV4cb6BdEvguhxDevelopment Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 3-4=-70, 1-2=-70

Trapezoidal Loads (plf)

Vert: 6=-211-to-5=-20

4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-60, 1-2=-60

Trapezoidal Loads (plf)

Vert: 6=-163-to-5=-20

18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-30, 1-2=-70

Trapezoidal Loads (plf)

Vert: 6=-211-to-5=-20

20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=-25, 3-4=-61, 1-2=-56

Horz: 3-6=25, 2-3=25, 4-5=7

Trapezoidal Loads (plf)

Vert: 6=-163-to-5=-20

21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=7, 3-4=-61, 1-2=-56

Horz: 3-6=-7, 2-3=-7, 4-5=-25

Trapezoidal Loads (plf)

Vert: 6=-163-to-5=-20

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=12, 3-4=-61, 1-2=-56

Horz: 3-6=-12, 2-3=-12, 4-5=12

Trapezoidal Loads (plf)

Vert: 6=-163-to-5=-20

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 3-7=12, 3-4=-61, 1-2=-56

Horz: 3-6=-12, 2-3=-12, 4-5=12

Trapezoidal Loads (plf)

Vert: 6=-163-to-5=-20

28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 3-4=-70, 1-2=-70

Trapezoidal Loads (plf)

Vert: 6=-211-to-5=-20

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J38	FLAT	1	1	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house, File: 6-19-2021 08:28:00 ID: Pma1Jn0gdpAt7yg9cdwkOzg39-axGj1ROX0phHir_bWLwAn0H888kNV1JDqFskMvayuhw

Development Services Department

Lee's Summit, Missouri

09/08/2022

Scale = 1:84.8

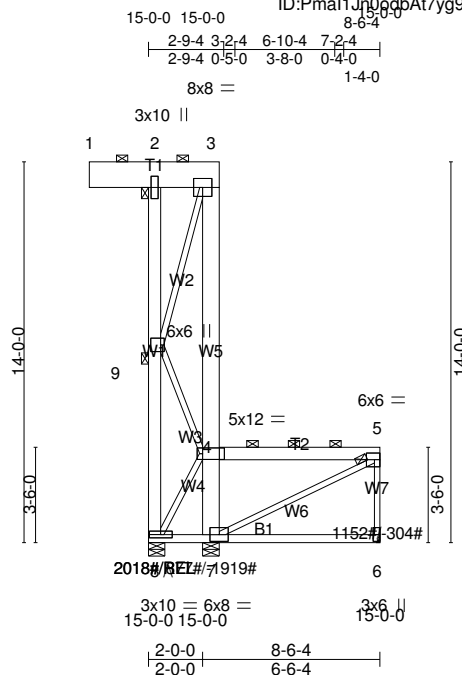


Plate Offsets (X,Y)-- [4:0-9-8,0-2-8], [6:Edge,0-2-8], [9:0-3-0,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	0.06	8	>436	240	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.07	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.77	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S							
									Weight: 124 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x12 SP No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x6 SPF No.2, W5: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-15 max.): 4-5, 4-7, 1-3.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 2, 5, 9

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

REACTIONS. (lb/size) 8=450/0-7-4 (min. 0-3-3), 6=413/Mechanical, 7=877/0-7-4 (min. 0-1-8)
Max Horz 8=-881(LC 12)
Max Uplift 8=REL, 6=-304(LC 14), 7=-1919(LC 14)
Max Grav 8=2018(LC 14), 6=1152(LC 12), 7=877(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-1462/1458, 2-9=-524/248, 4-5=-1933/549, 5-6=-1093/545, 4-7=-997/2202, 3-4=-619/685
BOT CHORD 7-8=-350/1733
WEBS 5-7=-567/2166, 4-8=-1703/47, 4-9=-1083/1076, 3-9=-798/685

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00 and 9 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=304, 7=1919.
- 8) "/" indicates Released bearing: allow for upward movement at joint(s) 8.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J38	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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Development Services Department

Lee's Summit, Missouri

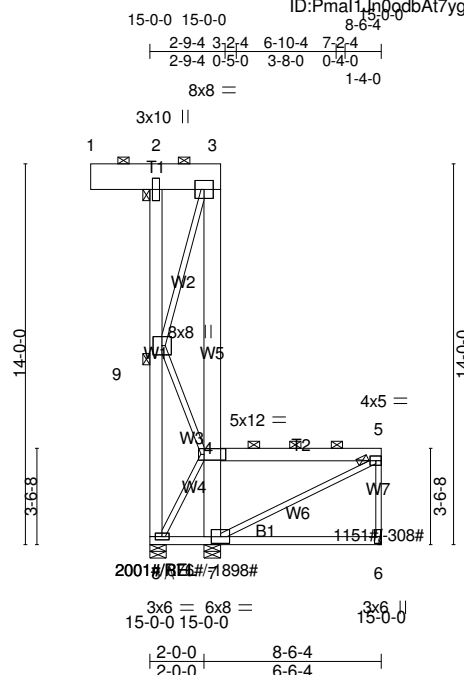
09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-8=-20, 1-2=-70
Trapezoidal Loads (plf)
Vert: 4=-218-to-5=-79, 2=-265-to-3=-218
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-8=-20, 1-2=-60
Trapezoidal Loads (plf)
Vert: 4=-171-to-5=-67, 2=-206-to-3=-171
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-8=-20, 1-2=-70
Trapezoidal Loads (plf)
Vert: 4=-178-to-5=-39, 2=-225-to-3=-178
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-8=-20, 1-2=-56
Horz: 2-8=25, 5-6=7, 3-4=30
Trapezoidal Loads (plf)
Vert: 4=-172-to-5=-68, 2=-207-to-3=-172
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-8=-20, 1-2=-56
Horz: 2-8=-7, 5-6=-25, 3-4=-4
Trapezoidal Loads (plf)
Vert: 4=-172-to-5=-68, 2=-207-to-3=-172
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-8=-20, 1-2=-56
Horz: 2-8=-12, 5-6=12, 3-4=6
Trapezoidal Loads (plf)
Vert: 4=-172-to-5=-68, 2=-207-to-3=-172
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-8=-20, 1-2=-56
Horz: 2-8=-12, 5-6=12, 3-4=6
Trapezoidal Loads (plf)
Vert: 4=-172-to-5=-68, 2=-207-to-3=-172
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-8=-20, 1-2=-70
Trapezoidal Loads (plf)
Vert: 4=-218-to-5=-79, 2=-265-to-3=-218

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTel
ID:Pmal1.Jn0odbAt7yq9cdwkOzqz39-28q5EnPZr



Scale = 1:84.8

Weight: 124 lb FT = 10%

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x12 SP No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W1: 2x6 SPF No.2 W5: 2x8 SP DSS

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-6 max.): 4-5, 4-7, 1-3.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 2, 5, 9

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

REACTIONS. (lb/size) 8=451/0-7-4 (min. 0-3-2), 6=414/Mechanical, 7=876/0-7-4 (min. 0-1-8)
 Max Horz 8=-880(LC 12)
 Max Uplift 8=REL, 6=-308(LC 14), 7=-1898(LC 14)
 Max Grav 8=2001(LC 14). 6=1151(LC 12). 7=876(LC 1)

TOP CHORD 8-9=-1450/1446, 2-9=-524/248, 4-5=-1905/551, 5-6=-1093/549, 4-7=-997/2185,
3-4=-610/678
BOT CHORD 7-8=-357/1711
WEBS 5-7=-570/2142, 4-8=-1683/45, 4-9=-1079/1073, 3-9=-791/676

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00 and 9 = 0.00

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=308, 7=1898.
- 8) "A" indicates Released bearing: allow for upward movement at joint(s) 8.
- 9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	
221102	J39	FLAT	1	1		
Job Reference (optional)						

Wheeler Lumber, Waverly, KS 66871

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Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 6-8=-20, 1-2=-70
 - Trapezoidal Loads (plf)
 - Vert: 4=-218-to-5=-79, 2=-265-to-3=-218
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 6-8=-20, 1-2=-60
 - Trapezoidal Loads (plf)
 - Vert: 4=-171-to-5=-67, 2=-206-to-3=-171
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 6-8=-20, 1-2=-70
 - Trapezoidal Loads (plf)
 - Vert: 4=-178-to-5=-39, 2=-225-to-3=-178
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 6-8=-20, 1-2=-56
 - Horz: 2-8=25, 5-6=7, 3-4=30
 - Trapezoidal Loads (plf)
 - Vert: 4=-172-to-5=-68, 2=-207-to-3=-172
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 6-8=-20, 1-2=-56
 - Horz: 2-8=-7, 5-6=-25, 3-4=-4
 - Trapezoidal Loads (plf)
 - Vert: 4=-172-to-5=-68, 2=-207-to-3=-172
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 6-8=-20, 1-2=-56
 - Horz: 2-8=-12, 5-6=12, 3-4=6
 - Trapezoidal Loads (plf)
 - Vert: 4=-172-to-5=-68, 2=-207-to-3=-172
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 6-8=-20, 1-2=-56
 - Horz: 2-8=-12, 5-6=12, 3-4=6
 - Trapezoidal Loads (plf)
 - Vert: 4=-172-to-5=-68, 2=-207-to-3=-172
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 6-8=-20, 1-2=-70
 - Trapezoidal Loads (plf)
 - Vert: 4=-218-to-5=-79, 2=-265-to-3=-218

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J40	FLAT	1	1	

Wheeler Lumber, Waverly, KS 66871

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Development Services Department

Lee's Summit, Missouri

09/08/2022

Scale = 1:85.1

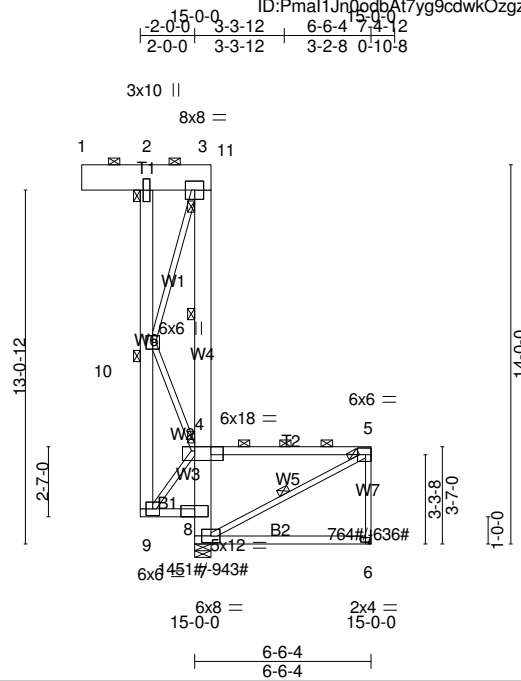


Plate Offsets (X,Y)-- [4:1-0-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	6-7	>747	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	6-7	>999	240	Weight: 116 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2400F 2.0E *Except*
T1: 2x12 DF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W4: 2x8 SP DSS, W6: 2x6 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: 4-8, 4-5, 1-3, except end verticals. Except:
6-0-0 oc bracing: 7-8, 3-4
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-4, 5-7
JOINTS 1 Brace at Jt(s): 3, 5, 2, 4, 10

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

REACTIONS. (lb/size) 7=1200/0-7-4 (min. 0-2-4), 6=347/Mechanical
Max Horz 7=-582(LC 10)
Max Uplift 7=-943(LC 10), 6=-636(LC 11)
Max Grav 7=1451(LC 21), 6=764(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-1068/313, 4-8=-1040/354, 3-4=-437/415, 4-5=-1232/1143, 5-6=-704/904,
9-10=-960/1087, 2-10=-348/182
BOT CHORD 8-9=-835/923
WEBS 5-7=-1371/1441, 4-9=-1441/1271, 4-10=-765/660, 3-10=-490/528

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=943, 6=636.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
Continued on page 2

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Yes! Submit! Mission!

Vert: $4 = -261 - \text{to} - 5 = -70$, $11 = -270 - \text{to} - 3 = -261$

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J41	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek

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Development Services Department

Lee's Summit, Missouri

09/08/2022

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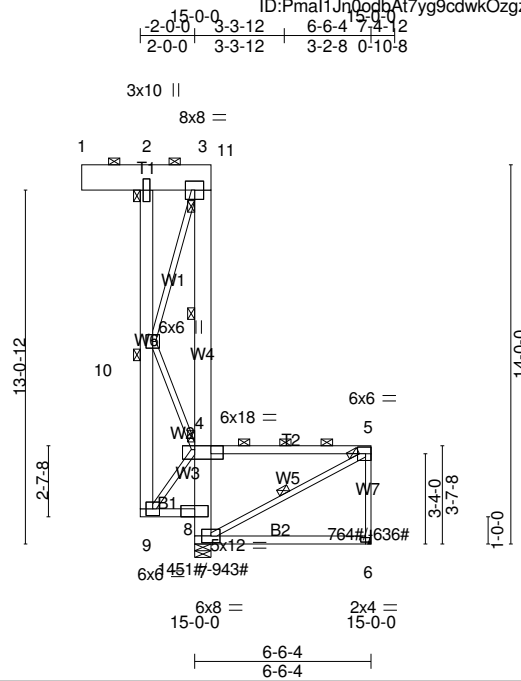


Plate Offsets (X,Y)-- [4:1-0-12,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	6-7	>746	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.58	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	-0.01	6-7	>999	240	Weight: 116 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2400F 2.0E *Except*
T1: 2x12 DF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W4: 2x8 SP DSS, W6: 2x6 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins: 4-8, 4-5, 1-3, except end verticals. Except: 6-0-0 oc bracing: 7-8, 3-4
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-4, 5-7
JOINTS	1 Brace at Jt(s): 3, 5, 2, 4, 10

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

REACTIONS.

(lb/size) 7=1200/0-7-4 (min. 0-2-4), 6=347/Mechanical
Max Horz 7=582(LC 13)
Max Uplift 7=943(LC 10), 6=636(LC 11)
Max Grav 7=1451(LC 21), 6=764(LC 20)

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

TOP CHORD 7-8=-1068/313, 4-8=-1040/354, 3-4=-433/411, 4-5=-1217/1129, 5-6=-704/904,
9-10=-955/1081, 2-10=-348/182
BOT CHORD 8-9=-816/902
WEBS 5-7=-1359/1429, 4-9=-1423/1255, 4-10=-764/659, 3-10=-487/524

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=943, 6=636.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J41	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-Service Dept. File: C:\Users\perry\OneDrive\Documents\Lee's Summit, Missouri\221102\221102.dwg
ID: Pma1Jn0odbAt7yg9cdwkOzgz39-XKOTS6QBRY_x98_emyesRMW9vSOz_qWIZLrQZvguhuDevelopment Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-60, 2-11=-60
Trapezoidal Loads (plf)
Vert: 4=-203-to-5=-60, 11=-210-to-3=-203
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-30
Trapezoidal Loads (plf)
Vert: 4=-221-to-5=-30, 11=-230-to-3=-221
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=14, 3-4=7, 5-6=7, 2-9=25
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-17, 3-4=-25, 5-6=-25, 2-9=-7
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J42	FLAT	1	1	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-house File: C:\Users\B... \Documents\Projects\221102\221102.dwg

ID: Pma11n00dbAt7yg9cdwkOzg39-?WysfSRbJk4rZJjACTUitOvhyMndiB5IXD4OV?vguht

Lee's Summit, Missouri
09/08/2022

Scale = 1:85.1

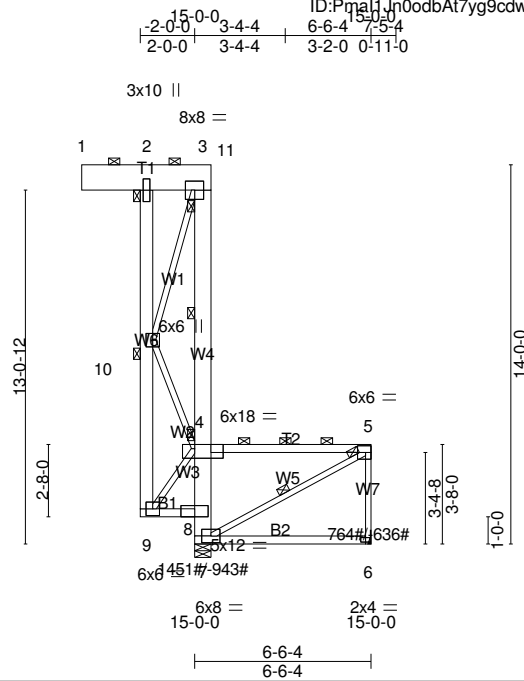


Plate Offsets (X,Y)-- [4:1-0-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	6-7	>745	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	6-7	>999	240	Weight: 116 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2400F 2.0E *Except*
T1: 2x12 DF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W4: 2x8 SP DSS, W6: 2x6 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: 4-8, 4-5, 1-3, except end verticals. Except:
6-0-0 oc bracing: 7-8, 3-4
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-4, 5-7
JOINTS 1 Brace at Jt(s): 3, 5, 2, 4, 10

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

REACTIONS. (lb/size) 7=1200/0-7-4 (min. 0-2-4), 6=347/Mechanical
Max Horz 7=-582(LC 10)
Max Uplift 7=-943(LC 10), 6=-636(LC 11)
Max Grav 7=1451(LC 21), 6=764(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-1068/313, 4-8=-1040/354, 3-4=-428/407, 4-5=-1200/1113, 5-6=-704/904,
9-10=-949/1075, 2-10=-348/183
BOT CHORD 8-9=-795/878
WEBS 5-7=-1345/1415, 4-9=-1404/1237, 4-10=-762/657, 3-10=-483/519

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=943, 6=636.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Job Reference (optional)
221102	J42	FLAT	1	1		

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102

ID:Pmal1Jn0odbAt7yg9cdwkOzg39-?WysfSRbuk4rZJjACtUitOvhyMndiB5IXD4Ov?vguht

Released for Construction Department

Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-60, 2-11=-60
Trapezoidal Loads (plf)
Vert: 4=-203-to-5=-60, 11=-210-to-3=-203
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-30
Trapezoidal Loads (plf)
Vert: 4=-221-to-5=-30, 11=-230-to-3=-221
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=14, 3-4=7, 5-6=7, 2-9=25
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-17, 3-4=-25, 5-6=-25, 2-9=-7
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J43	FLAT	1	1	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek

ID: Pma1LnQodbAt7yg9cdwkOzgz39-TjWEsoRS32CIBTHMLB?6xsEsdm7sRuNpIqvVByguhs

Oswald County, Missouri

Lee's Summit, Missouri

09/08/2022

Scale = 1:85.1

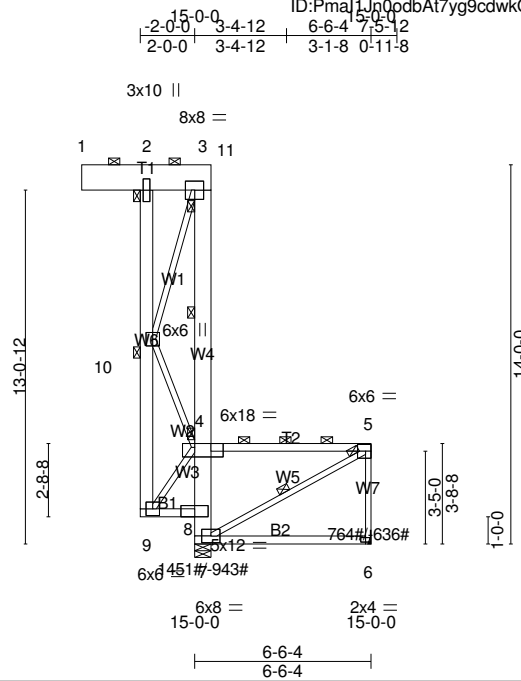


Plate Offsets (X,Y)-- [4:1-0-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	6-7	>744	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.57	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	6-7	>999	240		
									Weight: 116 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2400F 2.0E *Except*
T1: 2x12 DF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W4: 2x8 SP DSS, W6: 2x6 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: 4-8, 4-5, 1-3, except end verticals. Except:
6-0-0 oc bracing: 7-8, 3-4
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-4, 5-7
JOINTS 1 Brace at Jt(s): 3, 5, 2, 4, 10

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

REACTIONS. (lb/size) 7=1200/0-7-4 (min. 0-2-4), 6=347/Mechanical

Max Horz 7=-582(LC 10)
Max Uplift 7=-943(LC 10), 6=-636(LC 11)
Max Grav 7=1451(LC 21), 6=764(LC 20)

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

TOP CHORD 7-8=-1068/313, 4-8=-1040/354, 3-4=-424/403, 4-5=-1185/1098, 5-6=-704/904,
9-10=-943/1069, 2-10=-348/183
BOT CHORD 8-9=-776/857
WEBS 5-7=-1333/1402, 4-9=-1386/1221, 4-10=-760/655, 3-10=-479/515

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=943, 6=636.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J43	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-Studio File: Lumber Series 088 Print

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Oswald County Sheriff's Department

Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
 - Trapezoidal Loads (plf)
 - Vert: 4=-261-to-5=-70, 11=-270-to-3=-261
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 6-7=-20, 8-9=-20, 1-2=-60, 2-11=-60
 - Trapezoidal Loads (plf)
 - Vert: 4=-203-to-5=-60, 11=-210-to-3=-203
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-30
 - Trapezoidal Loads (plf)
 - Vert: 4=-221-to-5=-30, 11=-230-to-3=-221
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
 - Horz: 7-8=14, 3-4=7, 5-6=7, 2-9=25
 - Trapezoidal Loads (plf)
 - Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
 - Horz: 7-8=-17, 3-4=-25, 5-6=-25, 2-9=-7
 - Trapezoidal Loads (plf)
 - Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
 - Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
 - Trapezoidal Loads (plf)
 - Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf)
 - Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
 - Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
 - Trapezoidal Loads (plf)
 - Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
 - Trapezoidal Loads (plf)
 - Vert: 4=-261-to-5=-70, 11=-270-to-3=-261

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J44	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTe

ID:Pma1Jn0pdbAt7yq9cdwkOzqz39-xv4c48S4qM

Development Services Department

Lee's Summit, Missouri
09/08/2022

Scale = 1:85.1

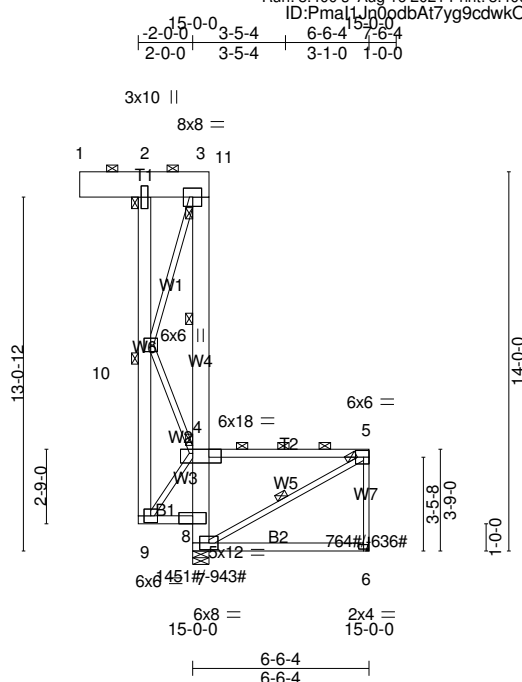


Plate Offsets (X,Y)-- [4:1-0-12,Edge]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL. in (loc) I/defl L/d				PLATES GRIP			
TCLL	20.0	Plate Grip DOL		1.15		TC 0.73		Vert(LL)		-0.05	6-7	>999	360	MT20	197/144
TCDL	15.0	Lumber DOL		1.15		BC 0.30		Vert(CT)		-0.10	6-7	>743	240		
BCLL	0.0 *	Rep Stress Incr		NO		WB 0.57		Horz(CT)		-0.00	6	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014				Matrix-S		Wind(LL)		-0.01	6-7	>999	240	Weight: 116 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2400F 2.0E *Except*
T1: 2x12 DF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W4: 2x8 SP DSS. W6: 2x6 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins: 4-8, 4-5, 1-3, except end verticals. Except: 6-0-0 oc bracing: 7-8, 3-4
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-4, 5-7
JOINTS	1 Brace at Jt(s): 3, 5, 2, 4, 10

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

REACTIONS.

(lb/size) 7=1200/0-7-4 (min. 0-2-4), 6=347/Mechanical
Max Horz 7=582(LC 13)
Max Uplift 7=943(LC 10), 6=636(LC 11)
Max Grav 7=1451(LC 21), 6=764(LC 20)

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

TOP CHORD 7-8=-1069/313, 4-8=-1041/354, 3-4=-420/399, 4-5=-1170/1083, 5-6=-704/904,
9-10=-937/1063, 2-10=-348/183
BOT CHORD 8-9=-758/837
WEBS 5-7=-1321/1389, 4-9=-1369/1205, 4-10=-758/654, 3-10=-475/510

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=943, 6=636.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J44	FLAT	1	1	
Wheeler Lumber, Waverly, KS 66871					Job Reference (optional)

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-Service Dept. File: C:\Program Files (x86)\MiTek\In-Service\2021\08\221102\221102.dwg
ID: Pma11Jn0odbAt7yg9cdwkOzg39-xv4c48S4qMKZocszJwW1U4-1NGT4ALFv-XZV1uyquhr

Development Services Department
Lee's Summit, Missouri
09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-60, 2-11=-60
Trapezoidal Loads (plf)
Vert: 4=-203-to-5=-60, 11=-210-to-3=-203
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-30
Trapezoidal Loads (plf)
Vert: 4=-221-to-5=-30, 11=-230-to-3=-221
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=14, 3-4=7, 5-6=7, 2-9=25
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-17, 3-4=-25, 5-6=-25, 2-9=-7
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J45	FLAT	1	1	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. File: C:\Users\jg\OneDrive\Documents\221102\Truss\221102.dwg

ID: PmaLjnp0dbAt7yg9cdwkOzg39-P5e_HUTibfSQQmRlca0HXG776Jvxo6DBJ32KvguHQ

Oswaldment Services Department

Lee's Summit, Missouri

09/08/2022

Scale = 1:85.1

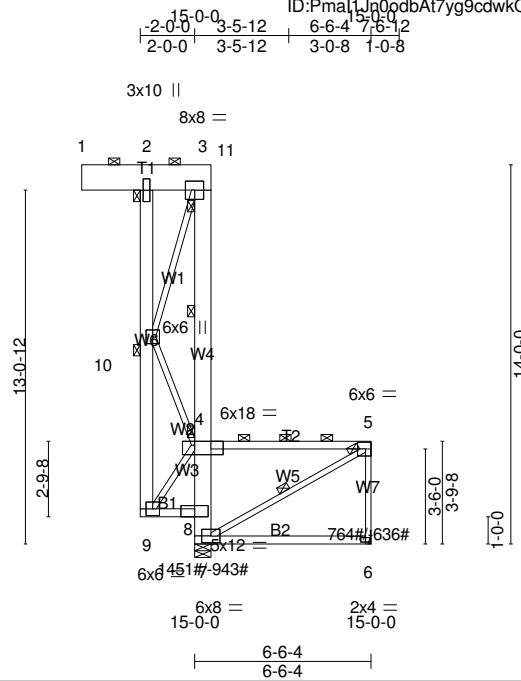


Plate Offsets (X,Y)-- [4:1-0-12,Edge]											
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144	
TCDL 15.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.10	6-7	>742	240			
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.57	Horz(CT)	-0.00	6	n/a	n/a			
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S	Wind(LL)	-0.01	6-7	>999	240			
									Weight: 116 lb FT = 10%		

LUMBER-

TOP CHORD 2x4 SPF 2400F 2.0E *Except*
T1: 2x12 DF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W4: 2x8 SP DSS, W6: 2x6 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins: 4-8, 4-5, 1-3, except end verticals. Except:
6-0-0 oc bracing: 7-8, 3-4
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-4, 5-7
JOINTS 1 Brace at Jt(s): 3, 5, 2, 4, 10

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

REACTIONS. (lb/size) 7=1200/0-7-4 (min. 0-2-4), 6=347/Mechanical
Max Horz 7=582(LC 13)
Max Uplift 7=943(LC 10), 6=636(LC 11)
Max Grav 7=1451(LC 21), 6=764(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-1069/313, 4-8=-1041/354, 3-4=-415/395, 4-5=-1155/1069, 5-6=-704/904,
9-10=-931/1057, 2-10=-348/183
BOT CHORD 8-9=-740/817
WEBS 5-7=-1309/1377, 4-9=-1352/1190, 4-10=-756/652, 3-10=-471/506

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=943, 6=636.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J45	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In the Cloud
ID: Pma11Jn0odbAt7yg9cdwkOzg39-P5e_HUTibfSQQmRlt1a0HXG77Z6JvoX6DBJ32KvguHQDevelopment Services Department
Lee's Summit, Missouri

09/08/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-60, 2-11=-60
Trapezoidal Loads (plf)
Vert: 4=-203-to-5=-60, 11=-210-to-3=-203
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-30
Trapezoidal Loads (plf)
Vert: 4=-221-to-5=-30, 11=-230-to-3=-221
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=14, 3-4=7, 5-6=7, 2-9=25
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-17, 3-4=-25, 5-6=-25, 2-9=-7
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J46	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek

ID:Pma11_Jn0qdbAt7yg9cdwkOzgZ39-IBMvqUKMz

Development Services Department

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Lee's Summit, Missouri

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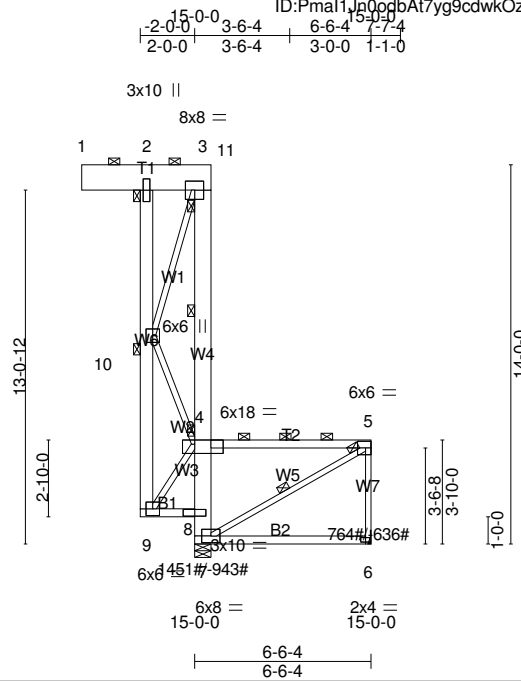


Plate Offsets (X,Y)-- [4:1-0-12,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	6-7	>742	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	-0.01	6-7	>999	240	Weight: 116 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2400F 2.0E *Except*
T1: 2x12 DF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W4: 2x8 SP DSS, W6: 2x6 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins: 4-8, 4-5, 1-3, except end verticals. Except: 6-0-0 oc bracing: 7-8, 3-4
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-4, 5-7
JOINTS	1 Brace at Jt(s): 3, 5, 2, 4, 10

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

REACTIONS.

(lb/size) 7=1200/0-7-4 (min. 0-2-4), 6=347/Mechanical
Max Horz 7=582(LC 10)
Max Uplift 7=943(LC 10), 6=636(LC 11)
Max Grav 7=1451(LC 21), 6=764(LC 20)

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

TOP CHORD 7-8=-1069/313, 4-8=-1041/355, 3-4=-411/391, 4-5=-1141/1056, 5-6=-704/904,
9-10=-926/1051, 2-10=-349/184
BOT CHORD 8-9=-723/798
WEBS 5-7=-1298/1365, 4-9=-1336/1175, 4-10=-754/650, 3-10=-467/501

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=943, 6=636.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Development Services Department Lee's Summit, Missouri 09/08/2022
221102	J46	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-60, 2-11=-60
Trapezoidal Loads (plf)
Vert: 4=-203-to-5=-60, 11=-210-to-3=-203
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-30
Trapezoidal Loads (plf)
Vert: 4=-221-to-5=-30, 11=-230-to-3=-221
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=14, 3-4=7, 5-6=7, 2-9=25
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-17, 3-4=-25, 5-6=-25, 2-9=-7
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Development Services Department Lee's Summit, Missouri 09/08/2022
221102	J47	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102
ID:Pma1Jn0odbAt7yg9cdwkOzg39-tlBMVqUKMzaH2w0xRJYpZV3Ns29YeFEFR2c5myguhp**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-60, 2-11=-60
Trapezoidal Loads (plf)
Vert: 4=-203-to-5=-60, 11=-210-to-3=-203
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-30
Trapezoidal Loads (plf)
Vert: 4=-221-to-5=-30, 11=-230-to-3=-221
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=14, 3-4=7, 5-6=7, 2-9=25
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-17, 3-4=-25, 5-6=-25, 2-9=-7
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J48	FLAT	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

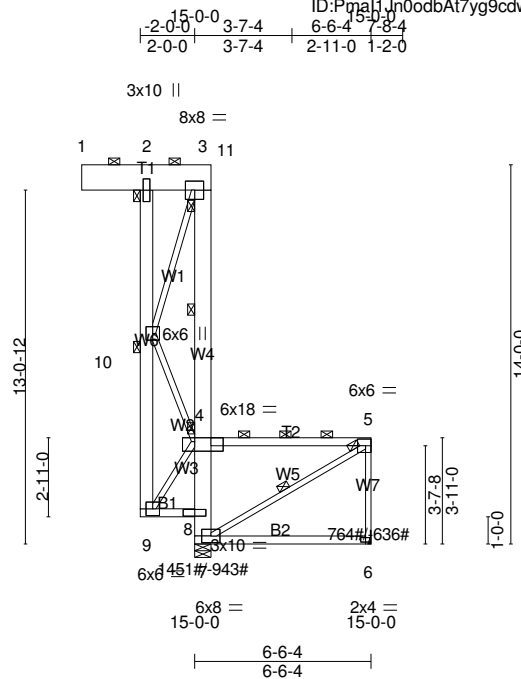
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ID: Pma1Jn0odbAt7yg9cdwkOzg39-LUlliAUy

Development Services Department

7Hl8t4b7_1325icYbNVnNiWQgVo9eDvquho
Lee's Summit, Missouri

09/08/2022



Scale = 1:85.1

Plate Offsets (X,Y)-- [4:1-0-12,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	6-7	>740	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S		Wind(LL)	-0.01	6-7	>999	240	Weight: 116 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 2400F 2.0E *Except*
T1: 2x12 DF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W4: 2x8 SP DSS, W6: 2x6 SPF No.2

BRACING-

TOP CHORD	2-0-0 oc purlins: 4-8, 4-5, 1-3, except end verticals. Except: 6-0-0 oc bracing: 7-8, 3-4
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-4, 5-7
JOINTS	1 Brace at Jt(s): 3, 5, 2, 4, 10

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

REACTIONS.

(lb/size) 7=1200/0-7-4 (min. 0-2-4), 6=347/Mechanical
Max Horz 7=-582(LC 10)
Max Uplift 7=-943(LC 10), 6=-636(LC 11)
Max Grav 7=1451(LC 21), 6=764(LC 20)

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

TOP CHORD 7-8=-1069/312, 4-8=-1041/355, 3-4=-402/384, 4-5=-1113/1029, 5-6=-704/904,
9-10=-914/1039, 2-10=-349/184
BOT CHORD 8-9=-690/761
WEBS 5-7=-1276/1342, 4-9=-1305/1146, 4-10=-751/647, 3-10=-459/492

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) TLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=943, 6=636.
- 8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 9) Load case(s) 1, 4, 18, 20, 21, 22, 23, 28 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	Development Services Department Lee's Summit, Missouri 09/08/2022
221102	J48	FLAT	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102-09-08-2022
ID:Pmal1Jn0odbAt7yg9cdwkOzgz39-LULiAUy7H8f4b7-1325jcV6NVnNtWQaVg9eDyguho**LOAD CASE(S)** Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-60, 2-11=-60
Trapezoidal Loads (plf)
Vert: 4=-203-to-5=-60, 11=-210-to-3=-203
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-30
Trapezoidal Loads (plf)
Vert: 4=-221-to-5=-30, 11=-230-to-3=-221
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=14, 3-4=7, 5-6=7, 2-9=25
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-17, 3-4=-25, 5-6=-25, 2-9=-7
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-0, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-56, 2-11=-61
Horz: 7-8=-22, 3-4=12, 5-6=12, 2-9=-12
Trapezoidal Loads (plf)
Vert: 4=-204-to-5=-61, 11=-211-to-3=-204
- 28) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 6-7=-20, 8-9=-20, 1-2=-70, 2-11=-70
Trapezoidal Loads (plf)
Vert: 4=-261-to-5=-70, 11=-270-to-3=-261

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J50	FLAT GIRDER	1	2	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITek Inc. 1100dbAt7yg9cdwkOzg39-pgJ7wVWauaq?HEAKYkaHew8d6n0i6EYv9XIAfvguhn

Oswald Engineering Department

Lee's Summit, Missouri

09/08/2022

Scale = 1:80.1

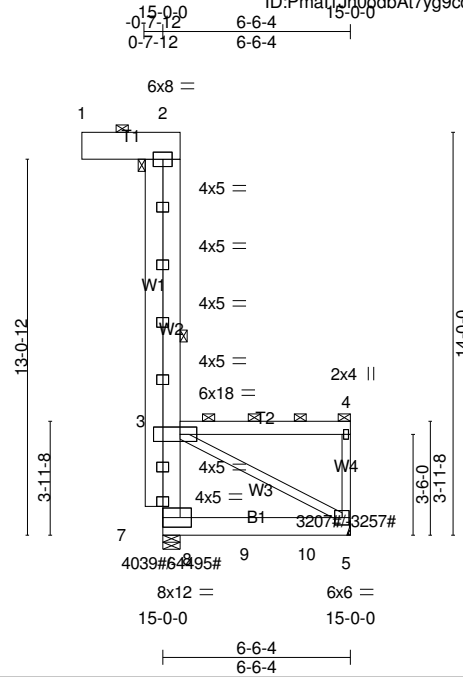


Plate Offsets (X,Y)-- [3:0-7-0,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.	DEFL. in (loc) l/defl L/d				PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.13	5-6	>547	240	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	0.14	5-6	>538	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S							Weight: 266 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x12 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x8 SP DSS *Except*
W4,W3: 2x4 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 3-4, 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-6

REACTIONS. (lb/size) 6=430/0-7-4 (min. 0-2-6), 5=132/Mechanical
Max Horz 6=-469(LC 35)
Max Uplift 6=-4495(LC 6), 5=-3257(LC 10)
Max Grav 6=4039(LC 39), 5=3207(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-784/816, 3-7=-855/908
BOT CHORD 6-8=-1228/1441, 8-9=-1228/1441, 9-10=-1228/1441, 5-10=-1228/1441
WEBS 3-5=-1483/1305

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 7 = 0.00 and 7 = 0.00

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x12 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 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) except (jt=lb) 6=4495, 5=3257.
- This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	RELEASED FOR CONSTRUCTION As Noted on Plans Review
221102	J50	FLAT GIRDER	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-Service Dept. File: C:\Users\james\Desktop\221102.dwg
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Oswald Cement Service Department
Lee's Summit, Missouri
09/08/2022

NOTES-
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2058 lb down and 2286 lb up at 0-10-4, and 2058 lb down and 2287 lb up at 2-10-4, and 2058 lb down and 2287 lb up at 4-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 3-4=-70, 5-6=-20, 1-2=-70
Concentrated Loads (lb)
Vert: 8=67(B) 9=68(B) 10=68(B)

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J51	FLAT GIRDER	1	2	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MITek Inc. v1.0.0.0

ID: Pmalj1n0qdbAt7yg9cdwkOzg39-lttV7sWCfuyvOIW6S6WB7h0uA8BdlH8oHGisvquhm

Desweldment Series Department

Lee's Summit, Missouri

09/08/2022

Scale = 1:86.4

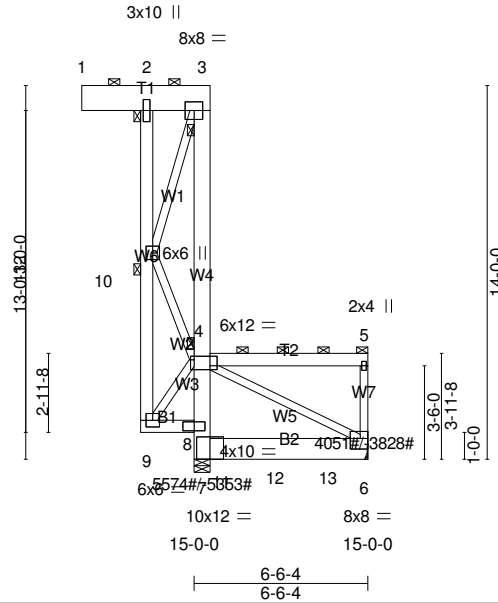


Plate Offsets (X,Y)-- [4:0-3-4,0-4-4], [6:Edge,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.09	6-7	>814	240	MT20	197/144
TCDL 15.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.09	6-7	>830	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.32	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IBC2018/TPI2014		Matrix-S						Weight: 288 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T1: 2x12 DF No.2
BOT CHORD 2x6 SPF No.2 *Except*
B2: 2x10 SP DSS
WEBS 2x4 SPF No.2 *Except*
W4: 2x8 SP DSS, W6: 2x6 SPF No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 4-8, 4-5, 1-3, except end verticals.
Except:
6-0-0 oc bracing: 7-8
10-0-0 oc bracing: 3-4
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 3, 4, 5, 2, 10

REACTIONS.

(lb/size) 6=97/Mechanical, 7=415/0-7-4 (min. 0-3-5)
Max Horz 7=570(LC 9)
Max Uplift 6=3828(LC 7), 7=5353(LC 6)
Max Grav 6=4051(LC 35), 7=5574(LC 36)

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

TOP CHORD 7-8=-1274/1265, 4-8=-1278/1302, 3-4=-384/395, 9-10=-990/1115, 2-10=-346/195
BOT CHORD 7-11=-1794/1866, 11-12=-1794/1866, 12-13=-1794/1866, 6-13=-1794/1866, 8-9=-740/821
WEBS 4-6=-1992/1897, 4-9=-1368/1196, 4-10=-787/687, 3-10=-476/412

JOINT STRESS INDEX

2 = 0.00, 3 = 0.00, 4 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x12 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-3-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=5ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor	RELEASED FOR CONSTRUCTION As Noted on Plans Review
221102	J51	FLAT GIRDER	1	2	Job Reference (optional)	

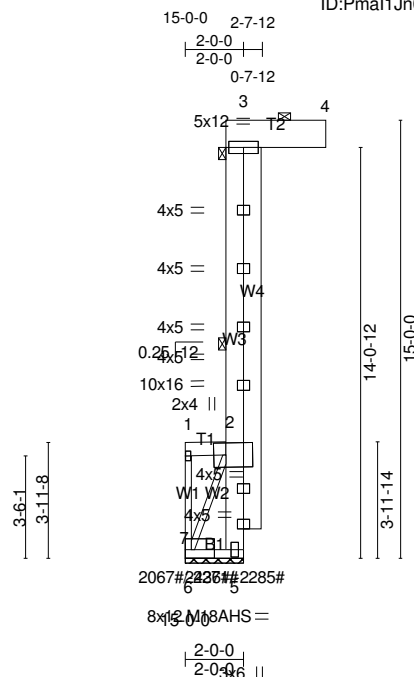
Wheeler Lumber, Waverly, KS 66871
Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In-Service Dept. File: US-19-04-263-028-000
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09/08/2022

NOTES-
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=3828, 7=5353.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2658 lb down and 2554 lb up at 0-10-4, and 2652 lb down and 2554 lb up at 2-10-4, and 2652 lb down and 2554 lb up at 4-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 4-5=-70, 6-7=-20, 8-9=-20, 1-2=-70, 2-3=-70
Concentrated Loads (lb)
Vert: 11=195(F) 12=195(F) 13=195(F)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 2021 Print: 8.400 s Aug 2021 MITekIn Development Services Department
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Scale = 1:78.9

Weight: 109 lb FT = 10%

TOP CHORD 2x6 SPF No.2 *Except*
T2: 2x12 SP No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W3,W4: 2x8 SP DSS

TOP CHORD	Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-5

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

REACTIONS. (lb/size) 6=141/2-0-0 (min. 0-1-8), 5=503/2-0-0 (min. 0-1-8)
Max Horz 6=558(LC 12)
Max Uplift6=2271(LC 12), 5=2285(LC 14)
Max Grav6=2067(LC 14), 5=2436(LC 12)

TOP CHORD 5-7=-2360/2246, 2-7=-2413/2303, 2-3=-197/312
BOT CHORD 5-6=-598/666
WEBS 2-6=-2103/2346

1 = 0.00, 2 = 0.00, 2 = 0.00, 2 = 0.00, 2 = 0.00, 2 = 0.00, 3 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 7 = 0.00 and 7 = 0.00

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) 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.
- 3) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2'-0" oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=227T, 5=2285.
- 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

As Noted on Plans Review

Wheeler Lumber, Waverly, KS 66871

15) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J53	Jack-Open Supported Gable	3	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. Fri Aug 5 10:42:39 2023 Page 1

Lee's Summit, Missouri

09/08/2022

09/08/2022

Scale = 1:78.9

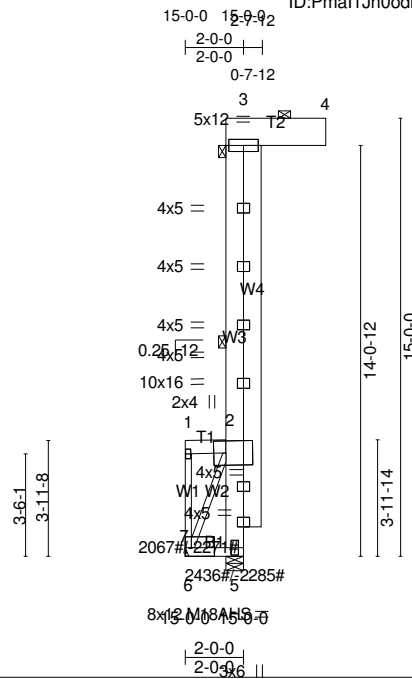


Plate Offsets (X,Y)-- [2:0-5-0,0-5-0], [6:Edge,0-3-8]									
LOADING (psf)		SPACING 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	0.00 6 >999 240	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	0.00 6 >999 180	M18AHS	142/136
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.00 6 n/a n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S				Weight: 109 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T2: 2x12 SP No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W3,W4: 2x8 SP DSS

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD	Rigid ceiling directly applied or 5-5-8 oc bracing.
WEBS	1 Row at midpt 3-5

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

REACTIONS.

(lb/size) 6=-141/Mechanical, 5=503/0-7-4 (min. 0-3-13)
Max Horz 5=-558(LC 12)
Max Uplift 6=-2271(LC 12), 5=-2285(LC 14)
Max Grav 6=2067(LC 14), 5=2436(LC 12)

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

TOP CHORD 5-7=-2359/2245, 2-7=-2412/2303, 2-3=-197/312
BOT CHORD 5-6=-1154/1035
WEBS 2-6=-2100/2342

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 2 = 0.00, 2 = 0.00, 2 = 0.00, 2 = 0.00, 3 = 0.00, 5 = 0.00, 6 = 0.00, 7 = 0.00, 7 = 0.00 and 7 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=2271, 5=2285.
- 12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J53	Jack-Open Supported Gable	3	1	

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102 Job: 221102

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RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
08/08/2022

at the bearings. Building designer

NOTES-
14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement must provide for uplift reactions indicated.

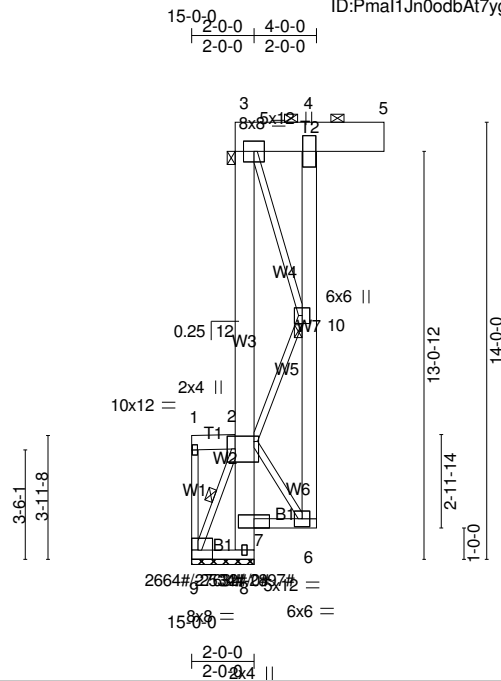
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J54	Monopitch Supported Gable	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Industries, Inc. Fri Aug 5 19:42:40 2023 Page 1

ID:Pmal1Jn0odbAt7yg9cdwkOzgZ39-iRZeltY5ypKRmrT5nafDomJQnOCX2tW7gmVwJQyquhj



Scale = 1:73.8

Plate Offsets (X,Y)-- [2:0-3-0,0-5-0], [9:Edge,0-3-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.02	4-5	n/r	120	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.03	4-5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-P							Weight: 106 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T2: 2x12 SP No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*
W3: 2x8 SP DSS, W7: 2x6 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-7, 3-5. Except: 10-0-0 oc bracing: 7-8, 2-3
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 2-9
JOINTS	1 Brace at Jt(s): 3, 10

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

REACTIONS. (lb/size) 9=-394/2-0-0 (min. 0-1-8), 8=16/2-0-0 (min. 0-1-8), 7=876/2-0-0 (min. 0-1-8)

Max Horz 9=582(LC 11)
Max Uplift9=-2534(LC 12), 7=-2897(LC 11)
Max Grav 9=2664(LC 11), 8=32(LC 5), 7=2763(LC 12)

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

TOP CHORD 2-7=-3515/3842, 2-3=-352/372, 6-10=-1329/1376, 4-10=-337/541
BOT CHORD 8-9=-735/849, 6-7=-942/1104
WEBS 2-6=-1903/1708, 2-10=-894/1220, 3-10=-395/336, 2-9=-3523/3643

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2'-0" oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 11) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J54	Monopitch Supported Gable	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

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ID:Pma11Jn0odbAt7yg9cdwkOzgz39-iRZeltY5ypKRmrT5naIDomJQnOCX2tW7gmVwJQyquhj

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review
Oswald, Missouri
Lee's Summit, Missouri
09/08/2022

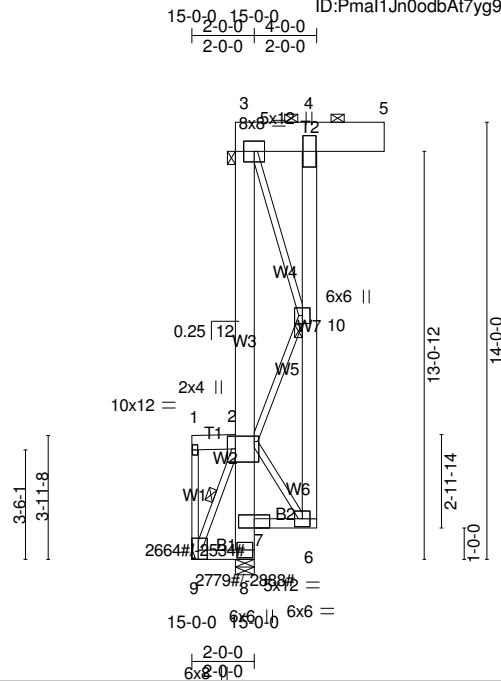
- NOTES-**
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=2534, 7=2897.
 - 13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 15) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J55	Monopitch Supported Gable	3	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek In Development Services Department
ID:Pma1Jn0odbAt7yg9cdwkOzgz39-Ae70zDZij7SHO?2HLAASLzsbRoYxnMMH3QOfUrsyquhi



Scale = 1:73.8

Plate Offsets (X,Y)-- [2:0-3-0,0-5-0], [9:0-3-8,Edge]												
LOADING (psf)		SPACING 2-0-0		CSI.		DEFL. in (loc) l/defl L/d					PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.00	9	>999	240	MT20	197/144
TCDL	15.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.00	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	-0.00	9	n/a	n/a		
BCDL	10.0	Code IBC2018/TPI2014		Matrix-S							Weight: 106 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
T2: 2x12 SP No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
W3: 2x8 SP DSS, W7: 2x6 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-7, 3-5. Except: 5-1-0 oc bracing: 7-8 10-0-0 oc bracing: 2-3
BOT CHORD	Rigid ceiling directly applied or 4-11-3 oc bracing.
WEBS	1 Row at midpt 2-9
JOINTS	1 Brace at Jt(s): 3, 10

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

REACTIONS.

(lb/size) 8=892/0-7-4 (min. 0-4-6), 9=-394/Mechanical
Max Horz 8=582(LC 11)
Max Uplift 8=-2888(LC 11), 9=-2534(LC 12)
Max Grav 8=2779(LC 12), 9=2664(LC 11)

FORCES.

TOP CHORD 1-9=-285/264, 7-8=-3441/3875, 2-7=-3415/3720, 2-3=-326/339, 6-10=-1262/1312,
4-10=-336/549
BOT CHORD 8-9=-1398/1382, 6-7=-868/1016
WEBS 2-6=-1772/1600, 2-10=-835/1151, 3-10=-387/322, 2-9=-3124/3230

JOINT STRESS INDEX

1 = 0.00, 2 = 0.00, 3 = 0.00, 4 = 0.00, 6 = 0.00, 7 = 0.00, 8 = 0.00, 9 = 0.00 and 10 = 0.00

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=80ft; L=40ft; eave=2ft; Cat. II; Exp C; Kd 1.00; Enclosed; MWFRS (directional) and C-C Corner(3) 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
- 2) 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.
- 3) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.00
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2'-0" oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 8-2888

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 9B of West Pryor
221102	J55	Monopitch Supported Gable	3	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871

Run: 8.400 s Aug 16 2021 Print: 8.400 s Aug 16 2021 MiTek Invision Job: 221102
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RELEASED FOR
CONSTRUCTION
As Noted on Plans Review
Oswald County Sheriff's Department
Lee's Summit, Missouri
09/08/2022

- NOTES-**
- 11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard