Job	Truss	Truss Typ	ре	Q	ty	Ply	Freedo	m Const\V	Vilson Left Gar	а
28849	G1	Commo	n Supported Gable	1		1				
C&R Building Supp	hy Autroville NC			8 430	e lan '	20 2021	Job Refe	rence (option	ıal) - Tue Aug 10 08:36	S:45 2025 Page 1
Car building Suppl	ly, Autryville NC			8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:36:45 2025 Page 1 ID:F_kzji0liblMsA9nfTFnH2yF3gmy0E4NuZ6vvYEuhJY5dUvlaqaUTpGvVzBO7fiZymLsW						
	-1-2-8 1-2-8		5-10-0 5-10-0	1		11-8 5-10			12-10-8 1-2-8	
	1-2-0		3-10-0			3-10	5-0		1-2-0	
			4)	x4 =						Scale = 1:33.6
			_	_						
	6-3-0	10.00 12 3 \$T1	ST2	Т3	s		ST1	W.	6 0-10-0	
	1 3x8	6 15	14 1	3	1.	2	11	10	•	
			11- 11-	-8-0 -8-0						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/	2-0-0 1.15 1.15 YES FPI2014	CSI. DI TC 0.13 V6 BC 0.04 V6	EFL. ert(LL) ert(CT) orz(CT)	ir -0.01 -0.01 0.00) 9	n/r n/r	L/d 120 120 n/a	PLATES MT20 Weight: 70 lb	GRIP 244/190 FT = 20%
	SP No.2 SP No.3		TO	RACING OP CHO	RD	purlir	s, excep	t end vertica	directly applied or lls. d or 6-0-0 oc brac	
OTHERS 2x4 SP No.3						MiT	MiTek recommends that Stabilizers and required cross			

bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 11-8-0.

(lb) - Max Horz 16=-162(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12,

11

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 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 with a clearance greater than 6-0-0 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) 16, 10, 14, 15, 12, 11.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

28849	G2	GABL	.E	1	1			
						Job Reference (op		
C&R Building Su	pply, Autryville NC			8.430 s Jan	20 202	1 MiTek Industries,	Inc. Tue Aug 19 08:36:4	16 2025 Page 1
	1 2 8		12-0-0	ID:F_kzji0lil	olMsA9nf	TFnH2yF3gm-S8acHju 24-0-0	BtD1Ps2GV6o9jSy70rupN?	My7Q2tCE?ymLsV
	-1-2-8 1-2-8		12-0-0			12-0-0	25-2-8 1-2-8	
				4x4 =				Scale = 1:61.2
			10.00 12	9				
	3x8	3 ST2 ST11 HW11 28 27 2x4 2x4	26 25 24	4 23 22	B2 21	x6 \\ 12 13 8 14 ST3 ST2 ST 20 19 18 2x4 2x4 2x4	16W F 3x8	
	<u> </u>			24-0-0				
Plate Offsets (X	Y) [24:0-4-0,0-4-8]			24-0-0			<u> </u>	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip D Lumber DOI	2-0-0 OL 1.15 - 1.15 ncr YES	CSI. TC 0.10 BC 0.02 WB 0.12 Matrix-S	DEFL. ii Vert(LL) -0.0i Vert(CT) -0.0i Horz(CT) 0.0i	0 17	' n/r 120 ' n/r 120	PLATES MT20 Weight: 200 lb	GRIP 244/190 FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Qty

Freedom Const\Wilson Left Gara

Structural wood sheathing directly applied or 6-0-0 oc purlins.

MiTek recommends that Stabilizers and required cross

9-23, 8-24, 10-22

Rigid ceiling directly applied or 10-0-0 oc bracing.

bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

1 Row at midpt

LUMBER-

Job

Truss

Truss Type

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.1 2x4 SP No.3 OTHERS

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. All bearings 24-0-0.

(lb) - Max Horz 2=-263(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26,

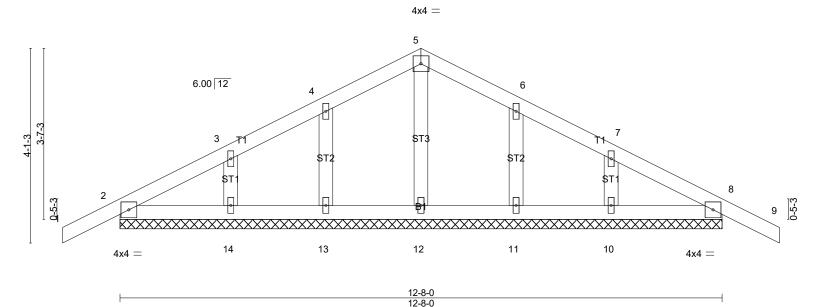
27, 28, 22, 21, 20, 19, 18

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	G3	GABLE	1	1	
					Job Reference (optional)
C&R Building Supply, Autryville NC			8.430 s Jan	20 2021	1 MiTek Industries, Inc. Tue Aug 19 08:36:47 2025 Page 1
			ID:F_kzji0li	blMsA9nf	TFnH2yF3gm-wK8_V3vpeX9GUBrhgWgy_AfBdl9ekqjGficmnRymLsU
1-2-8		6-4-0			12-8-0 13-10-8
1-2-8		6-4-0			6-4-0

Scale: 1/2"=1'



LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.10 BC 0.02	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 9 n/r 120 Vert(CT) -0.00 9 n/r 120	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-S	Horz(CT) 0.00 8 n/a n/a	Weight: 58 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E

OTHERS 2x4 SP No.3

BRACING-

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

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

REACTIONS. All bearings 12-8-0.

(lb) - Max Horz 2=72(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 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 with a clearance greater than 6-0-0 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) 2, 8, 13 . 14, 11, 10.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	GR2	Common Girder	1	2	Job Reference (optional)
C&R Building Supply, A	utryville NC				MiTek Industries, Inc. Tue Aug 19 08:36:48 2025 Page 1
	4-0-1 4-0-1	8-0-0 12-0-0 1	_kzji0liblMs 6-0-0 0-0	19-	H2yF3gm-OXiNiPwRPqH75LQuDDBBXNCK2hPwT8pQtMMJJtymLsT 11-15
		4x6			Scale = 1:60.7
	T T	4			
		3x8 //	1 2	3x8	
	10.0	00 12	N A		6 📏
	3x6	T1 W5			3x6 \
		2 W3 W4	W4 V	M3	7
			′		

4-0-1 4-0-0 4-0-0 4-0-0 Plate Offsets (X,Y)-- [1:Edge,0-3-12], [8:Edge,0-3-12], [11:0-3-8,0-4-0], [12:0-4-0,0-4-8], [13:0-3-8,0-4-0]

14

2x4 ||

22

8-0-0

13

8x8 =

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.25 BC 0.40 WB 0.61	DEFL. in (loc) l/defl L/d Vert(LL) -0.07 10-11 >999 360 Vert(CT) -0.14 10-11 >999 240 Horz(CT) 0.04 8 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.05 10-11 >999 240	Weight: 387 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

12

8x8 =

23

12-0-0

2425 ₂₆

16-0-0

27

19-11-15

8x8 =

10

2x4 ||

28

24-0-0

4-0-1

8x8 =

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E 2x4 SP No.3 *Except* WEBS

W5: 2x4 SP 2400F 2.0E

WEDGE

Left: 2x8 SP 2400F 2.0E, Right: 2x8 SP 2400F 2.0E

(lb/size) 1=3899/0-3-8 (min. 0-1-10), 8=5018/0-3-8 (min. 0-2-1) REACTIONS.

Max Horz 1=-256(LC 23)

Max Uplift1=-390(LC 8), 8=-495(LC 8)

8x8 =

4-0-1

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

TOP CHORD 1-2=-4927/524, 2-3=-4333/514, 3-4=-3507/492, 4-5=-3508/492,

5-6=-4750/544, 6-7=-4873/528, 7-8=-6081/583

BOT CHORD 1-21=-296/3692, 14-21=-296/3692, 14-22=-296/3692, 13-22=-296/3692,

13-23=-215/3294, 23-24=-215/3294, 12-24=-215/3294, 12-25=-211/3713, 25-26=-211/3713, 11-26=-211/3713, 11-27=-334/4570, 10-27=-334/4570,

10-28=-334/4570. 8-28=-334/4570

WEBS 4-12=-544/4153, 5-12=-2201/296, 5-11=-212/2542, 7-11=-1198/168,

7-10=-111/1489, 3-12=-1349/248, 3-13=-153/1457, 2-13=-563/139,

2-14=-60/605

NOTES-

1) 2-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. 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.

- 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) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	GR2	Common Girder	1	2	Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:36:48 2025 Page 2 ID:F kzji0liblMsA9nfTFnH2yF3gm-OXiNiPwRPqH75LQuDDBBXNCK2hPwT8pQtMMJJtymLsT

NOTES-

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=390, 8=495.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 470 lb down and 62 lb up at 2-0-12, 470 lb down and 62 Ib up at 4-0-12, 470 lb down and 62 lb up at 6-0-12, 470 lb down and 62 lb up at 8-0-12, 469 lb down and 61 lb up at 10-0-12, 469 lb down and 61 lb up at 12-0-12, 469 lb down and 61 lb up at 14-0-12, 909 lb down and 88 lb up at 16-0-12, 916 lb down and 88 lb up at 18-0-12, and 916 lb down and 88 lb up at 20-0-12, and 916 lb down and 88 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

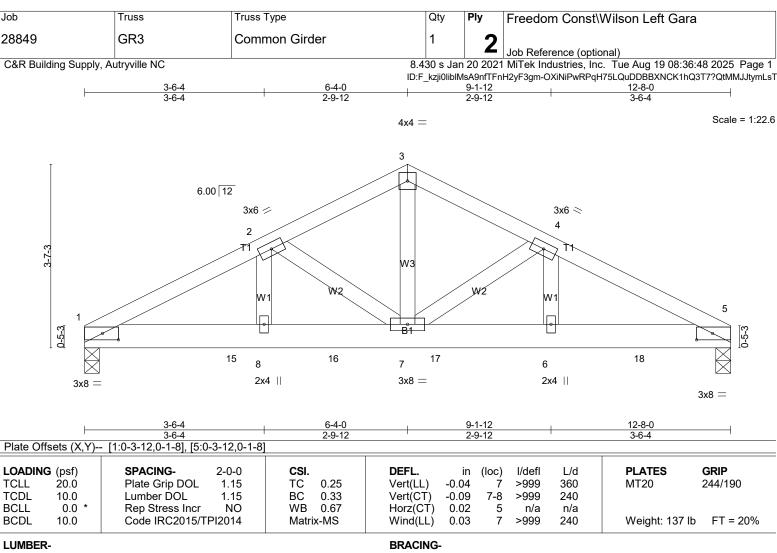
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-9=-60, 15-18=-20

Concentrated Loads (lb)

Vert: 12=-469(B) 11=-909(B) 10=-909(B) 13=-470(B) 14=-470(B) 21=-470(B) 22=-470(B) 23=-469(B) 26=-469(B) 27=-909(B) 28=-909(B)



LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP 2400F 2.0E

2x4 SP No.3 WEBS

TOP CHORD

Structural wood sheathing directly applied or 5-2-11 oc

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=3421/0-3-8 (min. 0-1-8), 5=3130/0-3-8 (min. 0-1-8)

Max Horz 1=61(LC 7)

Max Uplift1=-313(LC 8), 5=-264(LC 8)

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

1-2=-5320/501, 2-3=-3848/384, 3-4=-3848/384, 4-5=-5425/493 TOP CHORD **BOT CHORD**

1-15=-411/4738, 8-15=-411/4738, 8-16=-411/4738, 7-16=-411/4738,

7-17=-403/4833. 6-17=-403/4833. 6-18=-403/4833. 5-18=-403/4833

WEBS 3-7=-288/3216, 4-7=-1687/168, 4-6=-85/1443, 2-7=-1574/178, 2-8=-93/1338

NOTES-

1) 2-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.

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.

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) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B: Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 with a clearance greater than 6-0-0 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 (it=lb) 1=313, 5=264.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	GR3	Common Girder	1	2	Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:36:48 2025 Page 2 ID:F kzji0liblMsA9nfTFnH2yF3gm-OXiNiPwRPgH75LQuDDBBXNCK1hQ3T7?QtMMJJtymLsT

NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 910 lb down and 94 lb up at 0-11-4, 910 lb down and 95 lb up at 2-11-4, 910 lb down and 95 lb up at 4-11-4, 910 lb down and 95 lb up at 6-11-4, and 928 lb down and 97 lb up at 8-11-4, and 972 lb down and 71 lb up at 10-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

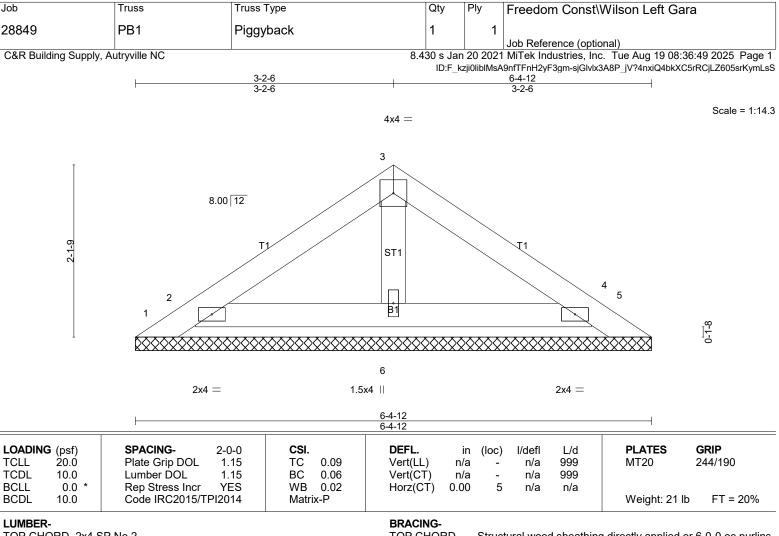
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 9-12=-20

Concentrated Loads (lb)

Vert: 6=-928(B) 11=-910(B) 15=-910(B) 16=-910(B) 17=-910(B) 18=-972



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

OTHERS 2x4 SP No.3

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

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

REACTIONS. All bearings 6-4-12.

(lb) - Max Horz 1=-44(LC 6)

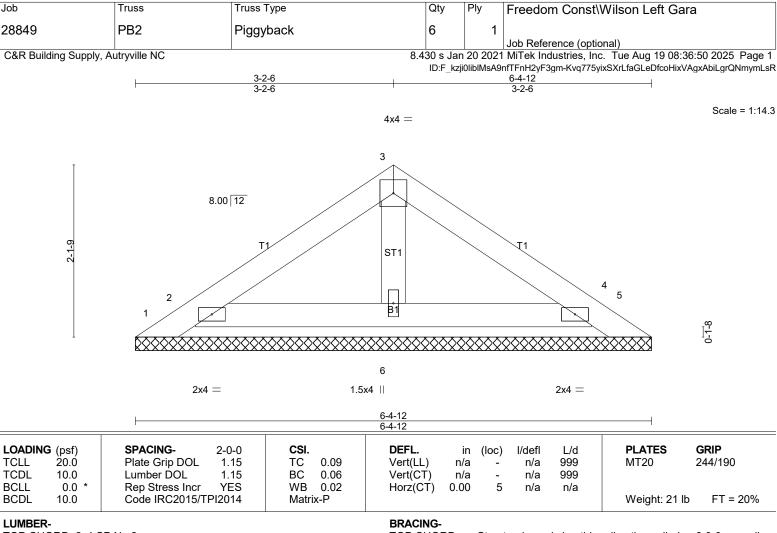
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

OTHERS 2x4 SP No.3

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

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

REACTIONS. All bearings 6-4-12.

(lb) - Max Horz 1=-44(LC 6)

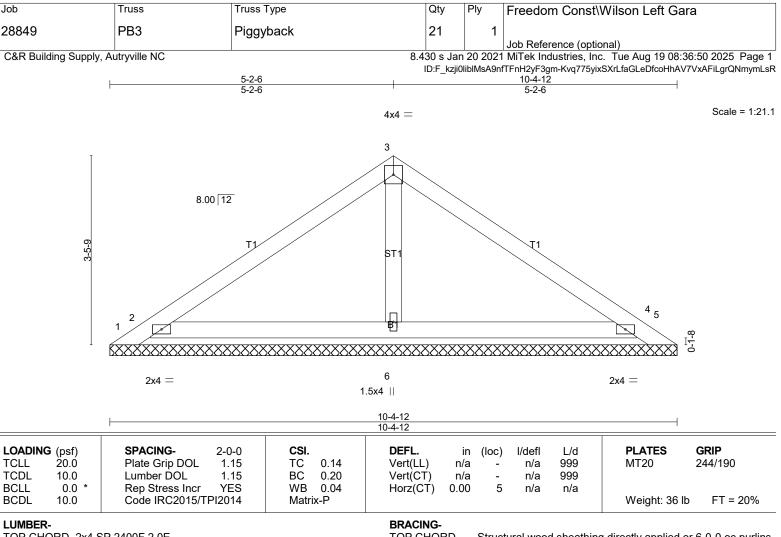
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

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

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

REACTIONS. All bearings 10-4-12.

(lb) - Max Horz 1=-74(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-305(LC 13),

5=-274(LC 14), 2=-201(LC 8), 4=-201(LC 8)

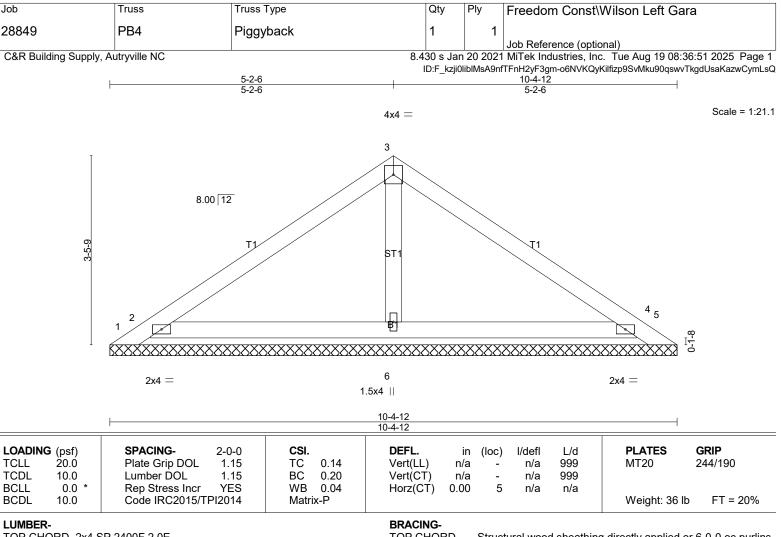
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=543(LC

13), 4=525(LC 14), 6=278(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 1, 274 lb uplift at joint 5, 201 lb uplift at joint 2 and 201 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

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

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

REACTIONS. All bearings 10-4-12.

(lb) - Max Horz 1=-74(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-305(LC 13),

5=-274(LC 14), 2=-201(LC 8), 4=-201(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=543(LC

13), 4=525(LC 14), 6=278(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 1, 274 lb uplift at joint 5, 201 lb uplift at joint 2 and 201 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

300	Truss	liuss i	ype	['	Qty	гіу	Freedom Const	wison Leit Gar	a
28849	T1	Comm	non		5	1			
							Job Reference (opt	ional)	
C&R Building	Supply, Autryville NC			8.43	0 s Jan	20 2021	MiTek Industries, Ir	c. Tue Aug 19 08:3	6:52 2025 Page 1
•				II	D:F kzji0	liblMsA9nt	fTFnH2yF3gm-GlxtYmz	yS3nZazkfS3F7hDM10。	JotP1p?o KXSfymLsP
	₇ 1-2-8 1-2-8	6-1-12 6-1-12	12-0-0	1	17-10-	4	24-0-0 6-1-12	25-2-8 1-2-8	
	1-2-8	6-1-12	5-10-4	ı	5-10-4	ļ	6-1-12	1-2-8	
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	3x6		444 — 44	.0 —	_	+A4 —			
	3x6 _{4x}	(4 =					4x4	=	
	,	8-1-3	1	15-10-13			24-0-0	1	
		8-1-3		7-9-11			8-1-3		
Plate Offsets	s (X,Y) [2:Edge,0-0-1], [8:Edg	ge,0-0-1]							
LOADING (ps	sf) SPACING-	2-0-0	CSI.	DEFL.	i	in (loc)	l/defl L/d	PLATES	GRIP
	0.0 Plate Grip DOL	1.15	TC 0.18	Vert(LL)		8 11-13		MT20	244/190
	0.0 Lumber DOL	1.15	BC 0.27	Vert(CT)		2 11-13		20	
	0.0 * Rep Stress Incr	YES	WB 0.23	Horz(CT					
	0.0 Code IRC2015/TP		Matrix-AS	Wind(LL		2 11-13		Weight: 161	b FT = 20%
DODE 10	7.0 COUE INC2013/1F	12014	IVIALI IX-AO	VVIIIU(LL	, 0.0	Z 11-13	- 333 24 0	weight. 101	D II - 2070

BRACING-

TOP CHORD

BOT CHORD

Freedom Const\Wilson Left Gara

Structural wood sheathing directly applied.

bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

MiTek recommends that Stabilizers and required cross

Rigid ceiling directly applied.

LUMBER-

Job

Truss

Truss Type

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -D 1-6-0, Right 2x4 SP No.3 -D 1-6-0

REACTIONS. (lb/size) 2=1030/0-3-8 (min. 0-1-8), 8=1030/0-3-8 (min. 0-1-8)

Max Horz 2=-263(LC 6)

Max Uplift2=-119(LC 8), 8=-119(LC 8) Max Grav2=1048(LC 13), 8=1048(LC 14)

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

TOP CHORD 2-3=-1195/131, 3-4=-1104/202, 4-5=-1004/243, 5-6=-1004/243,

6-7=-1104/202, 7-8=-1195/131

BOT CHORD 2-14=-197/403, 13-14=0/998, 12-13=0/673, 11-12=0/673, 10-11=0/873

WEBS 5-11=-97/609, 7-11=-323/195, 5-13=-97/609, 3-13=-323/195

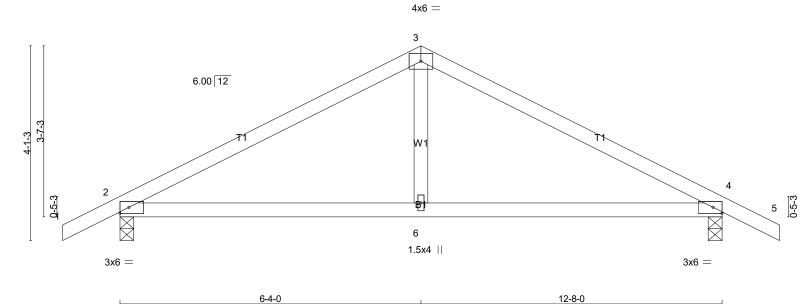
NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 2 and 119 lb uplift at joint 8.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara	
28849	T2	Common	2	1		
					Job Reference (optional)	
C&R Building Supply, Autryville NC			8.430 s Jai	1 20 202°	MiTek Industries, Inc. Tue Aug 19 08:36:53 2025	Page 1
			ID:F_kzji0lik	IMsA9nfT	FnH2yF3gm-IUVFI6_aDNvQC6Jr0mnMERv9fiAU8Ww91e34_	5ymLsO
1-2-8		6-4-0			12-8-0 13-10-	8
1-2-8		6-4-0			6-4-0 1-2-8	

Scale: 1/2"=1"



			-		
LOADIN	(1 /	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLAT	
TCLL	20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.03 6-9 >999 360 MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.06 6-9 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.00 2 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.02 6-9 >999 240 Weigh	nt: 49 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E WEBS 2x4 SP No.3

BRACING-

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

6-4-0

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

REACTIONS. (lb/size) 2=579/0-3-8 (min. 0-1-8), 4=579/0-3-8 (min. 0-1-8)

Max Horz 2=-72(LC 6)

Max Uplift2=-80(LC 8), 4=-80(LC 8)

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

6-4-0

TOP CHORD 2-3=-700/66, 3-4=-700/66 BOT CHORD 2-6=0/558, 4-6=0/558

WEBS 3-6=0/288

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 80 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	Т3	GABLE	1	1	
					Job Reference (optional)
C&R Building S	C&R Building Supply, Autryville NC			an 20 202	1 MiTek Industries, Inc. Tue Aug 19 08:36:54 2025 Page 1
			ID:F_kzji	OliblMsA9nf	TFnH2yF3gm-Dh3ezS?C_g1GqGt1aUlbneSPg6YEtz7lGlpdWXymLsN
	_¬ 1-2-8	14-9-10	21-2-6		36-0-0 37-2-8
	1-2-8	14-9-10	6-4-12		14-9-10 1-2-8

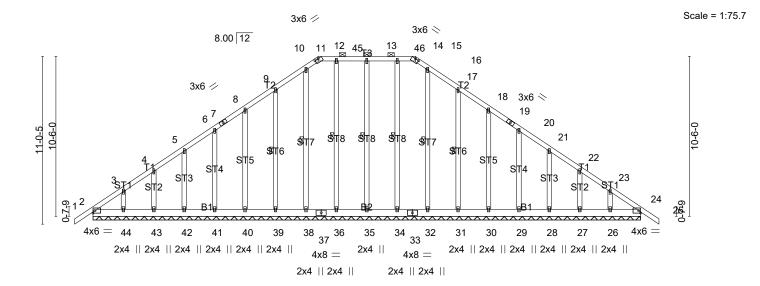


Plate Of	fsets (X,Y)	[11:0-3-0,0-0-2], [15:	:0-3-0,0-0-2]		36-0-0						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.ó	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	25	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	25	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S						Weight: 304 lb	FT = 20%

36-0-0

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 2x4 SP No.3 OTHERS

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except

2-0-0 oc purlins (6-0-0 max.): 11-15.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

13-35, 12-36, 10-38, 9-39, 14-34,

16-32, 17-31

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

REACTIONS. All bearings 36-0-0.

(lb) - Max Horz 2=-251(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 2, 35, 39, 40, 41, 42, 43,

44, 31, 30, 29, 28, 27, 26

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 35, 36, 38, 39, 40, 41, 42, 43, 44, 34, 32, 31, 30, 29, 28, 27, 26

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=36ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 35, 39, 40, 41, 42, 43, 44, 31, 30, 29, 28, 27, 26. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	Т3	GABLE	1	1	
					Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:36:54 2025 Page 2 ID:F_kzji0liblMsA9nfTFnH2yF3gm-Dh3ezS?C_g1GqGt1aUlbneSPg6YEtz7lGlpdWXymLsN

NOTES-

11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 12) 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	Freedom Con	st∖Wilson Left Gara	ı
28849	T4	Piggyback Base		6	1			
						Job Reference (o	ptional)	
C&R Building Supply, Au	utryville NC		8.4	30 s Jan	20 2021	MiTek Industries,	Inc. Tue Aug 19 08:36:	:55 2025 Page 1
			ID:	F_kzji0libl	MsA9nfTF	nH2yF3gm-htd0Ao?d	ql_97RQSE8BpqJs_XJWqjc	OORUyYB3zymLsM
_T 1-2-8	7-4-14	14-9-10	21-2-6			28-7-2	36-0-0	37-2-8
1-2-8	7-4-14	7-4-12	6-4-12			7-4-12	7-4-14	1-2-8

Scale = 1:65.5

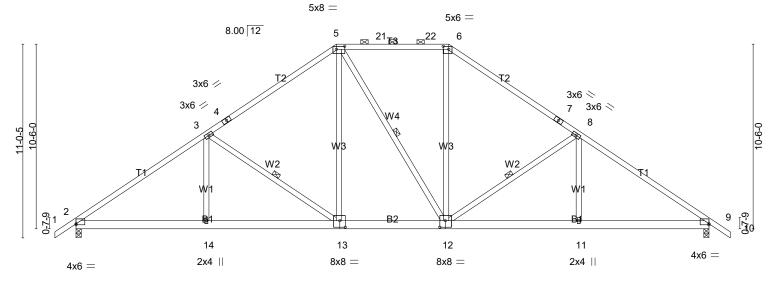


Plate Offsets (X,Y)-- [2:0-0-0,0-0-11], [5:0-5-12,0-2-0], [6:0-3-12,0-2-0], [9:0-0-0,0-0-11], [12:0-3-12,0-4-8], [13:0-3-12,0-4-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES GRIP** in (loc) 20.Ó Plate Grip DOL TCLL 1.15 TC 0.24 Vert(LL) -0.07 12-13 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.26 Vert(CT) -0.13 13-14 >999 240 0.0 Rep Stress Incr 0.24 Horz(CT) BCLL YES WB 0.05 9 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-AS Wind(LL) 0.04 13 >999 240 Weight: 238 lb FT = 20%

21-2-6

6-4-12

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 2x4 SP No.3 WFBS

BRACING-

TOP CHORD

BOT CHORD WEBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied.

28-7-2

1 Row at midpt 3-13, 5-12, 8-12

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

36-0-0

7-4-14

REACTIONS. (lb/size) 2=1512/0-3-8 (min. 0-1-13), 9=1512/0-3-8 (min. 0-1-13)

Max Horz 2=251(LC 7)

7-4-14

Max Uplift2=-152(LC 8), 9=-152(LC 8)

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

2-3=-2151/197, 3-4=-1639/194, 4-5=-1511/239, 5-21=-1288/247, TOP CHORD

21-22=-1288/247, 6-22=-1288/247, 6-7=-1513/239, 7-8=-1641/194,

14-9-10

7-4-12

8-9=-2151/197

BOT CHORD 2-14=-33/1829, 13-14=-33/1829, 12-13=0/1376, 11-12=-34/1693,

9-11=-34/1693

WEBS 3-14=0/295, 3-13=-561/148, 5-13=-3/548, 6-12=-3/530, 8-12=-558/148,

8-11=0/292

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=152, 9=152.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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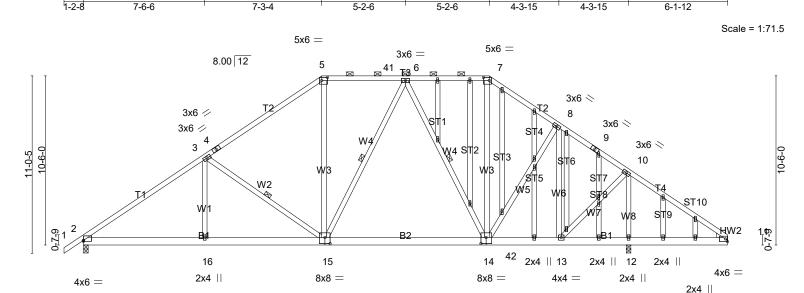
Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	T4	Piggyback Base	6	1	
					Job Reference (optional)

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NOTES-

- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) 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 Freedom Const\Wilson Le			son Left Gara				
28849	T5	GABLE		1	1						
						Job Refe	ence (optional)				
C&R Building Supply,	, Autryville NC			8.430 s Ja	n 20 202	MiTek Ind	dustries, Inc. Ti	ue Aug 19 08:36:56 2	025 Page 1		
			ID:F kzji0liblMsA9nfTFnH2yF3gm-93BON80SWIH 3a1QhvK3s3Xi1w8vLiRbjclkbQymLsL								
₁ 1-2-8	7-6-6	14-9-10	20-0-0	25-2-6	1	29-6-5	33-10-4	40-0-0	1		



	<u> </u>	7-6-6 7-6-6	14-9-1 7-3-4	-		25-2-6 10-4-12			9-6-5 -3-15	33-10-4 4-3-15	40-0-0 6-1-12	—
Plate Of	fsets (X,Y)	- [2:0-0-0,0-0-11], [5:0			-2-4], [14:0		5:0-3-12			4-3-13	0-1-12	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.13	1 4 -15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.21		>999	240		
BCLL	0.0 *	Rep Stress Incr		WB	0.83	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code IRC2015/7	ΓΡI2014	Matri	x-AS	Wind(LL)	0.03	15	>999	240	Weight: 347 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 2x4 SP No.3 WEBS 2x4 SP No.3 **OTHERS** WEDGE

Right: 2x4 SP No.3

BRACING-

TOP CHORD

BOT CHORD WEBS

Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-7. Rigid ceiling directly applied.

1 Row at midpt 3-15, 6-15, 6-14

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

REACTIONS. (lb/size) 2=1383/0-3-8 (min. 0-1-11), 12=1889/0-3-8 (min. 0-2-5)

Max Hórz 2=248(LC 7)

Max Uplift2=-143(LC 8), 12=-145(LC 8)

Max Grav2=1446(LC 13), 12=1947(LC 15)

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

TOP CHORD 2-3=-2019/184, 3-4=-1571/170, 4-5=-1552/219, 5-41=-1244/229,

 $6-41=-1244/229,\ 6-7=-966/206,\ 7-8=-1197/210,\ 8-9=-806/151,\ 9-10=-878/125,$

10-11=-62/419

BOT CHORD 2-16=-58/1751, 15-16=-58/1751, 14-15=0/1227, 14-42=0/680, 13-42=0/680,

12-13=-262/68, 11-12=-262/68

WEBS 3-16=0/271, 3-15=-535/156, 5-15=0/503, 6-14=-537/75, 7-14=-23/409,

8-14=0/594, 8-13=-854/50, 10-13=-14/1223, 10-12=-1743/187

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	T5	GABLE	1	1	11.5 (()
					Job Reference (optional)

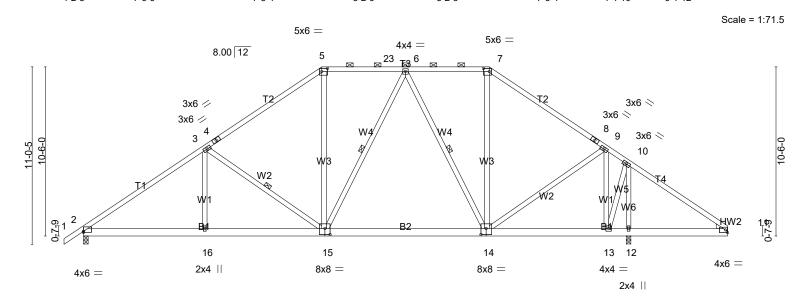
8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:36:56 2025 Page 2 ID:F kzji0liblMsA9nfTFnH2yF3gm-93BON80SWIH 3a1QhvK3s3Xi1w8vLiRbjclkbQymLsL

NOTES-

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=143, 12=145.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) 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	Freedom Co	onst\Wilson	Left Gara	
28849	T6	Piggyback Base		5	1				
						Job Reference	(optional)		
C&R Building Supply, A	utryville NC			8.430 s Jar	20 2021	MiTek Industrie	es, Inc. Tue Au	ug 19 08:36:57	2025 Page 1
				ID:F_kzji0l	blMsA9nf	ΓFnH2yF3gm-dGln	nbU15HbPrhkccF	crIOH4tmKTD4E	3GkyG1I7symLsK
₁ 1-2-8	7-6-6	14-9-10	20-0-0	25-2-6	1	32-5-10	33-10-4	40-0-0	1
1-2-8	7-6-6	7-3-4	5-2-6	5-2-6	-	7-3-4	1-4-10	6-1-12	



L	7-6-6	14-9-1	U		25-2-6		1	32-5-1	J	33-10-4	40-0-0	
	7-6-6	7-3-4			10-4-12			7-3-4		1-4-10	6-1-12	1
Plate Offsets (K,Y) [2:0-0-0,0-0-11], [5:0-4-4,0-2-4],	[7:0-4-4,0-	-2-4], [14:0	0-3-12,0-4-8], [1	5:0-3-12	,0-4-8					
			Ī									
LOADING (psf	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PL	ATES	GRIP
TCLL 20.0	Plate Grip DO	L 1.15	TC	0.25	Vert(LL)	-0.14 1	À-15	>999	360	M	Γ20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.22 1	4-15	>999	240			
BCLL 0.0	* Rep Stress Inc	cr YES	WB	0.66	Horz(CT)	0.03	12	n/a	n/a			
BCDL 10.0	Code IRC201	5/TPI2014	Matri	x-AS	Wind(LL)	0.03	15	>999	240	We	eight: 279 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 2x4 SP No.3 WEBS

WEDGE

Right: 2x4 SP No.3

BRACING-

TOP CHORD

BOT CHORD WEBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 5-7.

Rigid ceiling directly applied.

1 Row at midpt 3-15, 6-15, 6-14

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

REACTIONS. (lb/size) 2=1383/0-3-8 (min. 0-1-11), 12=1889/0-3-8 (min. 0-2-4)

Max Horz 2=248(LC 7)

Max Uplift2=-143(LC 8), 12=-145(LC 8)

Max Grav 2=1423(LC 13), 12=1889(LC 1)

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

TOP CHORD 2-3=-1978/184, 3-4=-1530/170, 4-5=-1511/219, 5-23=-1210/229,

6-23=-1210/229, 6-7=-913/209, 7-8=-1158/192, 8-9=-1178/143,

10-11=-59/391

2-16=-58/1717, 15-16=-58/1717, 14-15=0/1178

BOT CHORD 3-16=0/274, 3-15=-535/155, 5-15=0/476, 6-14=-528/65, 7-14=0/343, **WEBS** 9-14=0/955, 9-13=-1262/137, 10-13=-50/1112, 10-12=-1487/125

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=143, 12=145.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	Т6	Piggyback Base	5	1	
					Job Reference (optional)

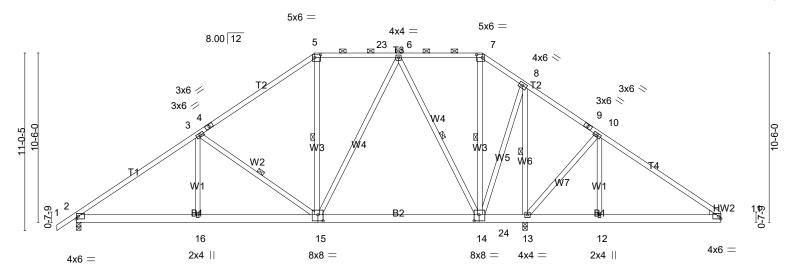
8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:36:57 2025 Page 2 ID:F_kzji0liblMsA9nfTFnH2yF3gm-dGlmbU15HbPrhkccFcrlOH4tmKTD4BGkyG1I7symLsK

NOTES-

- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

J	lob	Truss	Truss Type		(Qty	Ply	Freedom Const	\Wilson Left Gara	
2	28849	T7	Piggyback Base			1	1			
								Job Reference (opti	ional)	
	C&R Building Supply, Au	utryville NC			8.43	0 s Jan	20 2021	MiTek Industries, In	ic. Tue Aug 19 08:36:57	2025 Page 1
					ID	:F_kzji0li	blMsA9nf	TFnH2yF3gm-dGlmbU1	5HbPrhkccFcrlOH4sJKU?4AA	AkyG1I7symLsK
	₇ 1-2-8	7-6-6	14-9-10	20-0-0	2	5-2-6	27-1	0-4 32-5-10	40-0-0	
	1-2-8	7-6-6	7-3-4	5-2-6	5	5-2-6	2-7-	-14 4-7-6	7-6-6	

Scale = 1:71.5



	1	7-6-6	14-9-1	0		25-2-6	1 27-10)-4	32-5-10	40-0-0	1
		7-6-6	7-3-4	ļ		10-4-12	2-7-1	l4 [']	4-7-6	7-6-6	
Plate Of	fsets (X,Y)	- [5:0-4-4,0-2-4], [7:0-	-4-4,0-2-4], [14:0-3-12,	0-4-8], [15	5:0-3-12,0-4-8]					
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.12 1 4 -15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.34	Vert(CT)	-0.20 14-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.02 13	n/a	n/a		
BCDL	10.0	Code IRC2015/7	TPI2014	Matri	x-AS	Wind(LL)	0.03 14-15	>999	240	Weight: 288 lb	FT = 20%
						\ \ /				3	

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

BRACING-

TOP CHORD

BOT CHORD WEBS Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 5-7.

Rigid ceiling directly applied.

1 Row at midpt 3-15, 5-15, 6-14, 7-14, 8-13

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

REACTIONS. (lb/size) 2=976/0-3-8 (min. 0-1-8), 13=2296/0-3-8 (min. 0-2-12)

Max Horz 2=248(LC 7)

Max Uplift2=-112(LC 8), 13=-176(LC 8)

Max Grav 2=1077(LC 17), 13=2315(LC 15)

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

TOP CHORD 2-3=-1401/131, 3-4=-917/115, 4-5=-898/164, 5-23=-673/183, 6-23=-673/183,

6-7=-78/276, 7-8=-104/369, 8-9=-85/877, 9-10=-90/739, 10-11=-71/551

2-16=-14/1181, 15-16=-14/1181, 14-15=0/443, 14-24=-687/171,

13-24=-687/171, 12-13=-350/85, 11-12=-350/85

WEBS 3-16=0/287, 3-15=-561/158, 6-15=-13/667, 6-14=-980/113, 7-14=-396/48,

8-14=0/1552, 8-13=-1928/90, 10-13=-511/130, 10-12=-84/305

NOTES-

BOT CHORD

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=112, 13=176.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	T7	Piggyback Base	1	1	
					Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:36:57 2025 Page 2 ID:F_kzji0liblMsA9nfTFnH2yF3gm-dGlmbU15HbPrhkccFcrlOH4sJKU?4AAkyG1l7symLsK

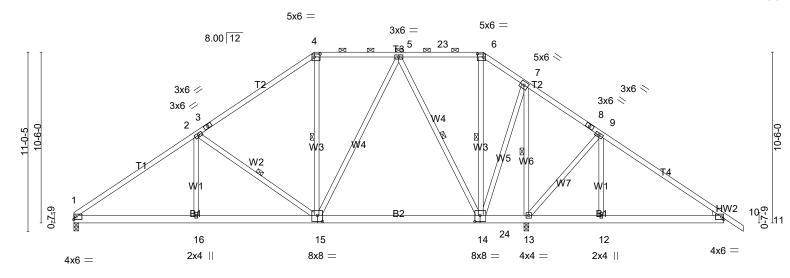
NOTES-

- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) 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	Freedom Const\Wilson Left Gara	
28849	Т8	Piggyback Base		2	1		
						Job Reference (optional)	
C&R Building Supply, Au	itryville NC		8.4	30 s Jan	20 2021	MiTek Industries, Inc. Tue Aug 19 08:36:58 2025 Page 1	
				ID:F_kz	ji0liblMsA9	9nfTFnH2yF3gm-5SJ8oq2j2vXiluBppKMXxUc1wjqFpdvuBwnrflymLsJ	
	766	14 0 10	20 0 0	25.0	27 4	0.4 22.5.10 40.00 41.2.0	

2-7-14

Scale = 1:70.9



		7-0-0	7-3-4		10-4-12	2-1-1	4	4-7-0	7-0-0	
Plate Off	fsets (X,Y)	[4:0-4-4,0-2-4], [6:0-	4-4,0-2-4], [14:0-3-12,0-4-8], [15:	0-3-12,0-4-8]					
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.12 1 4 -15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.20 14-15	>999	240		
BCLL	00 *	Ren Stress Incr	YES	WB 0.77	Horz(CŤ)	0.02 13	n/a	n/a		

Matrix-AS

25-2-6

LUMBER-

BCDL

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3

10.0

WEDGE

Right: 2x4 SP No.3

BRACING-

Wind(LL)

TOP CHORD

0.03 14-15

BOT CHORD WEBS Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 4-6.

240

Rigid ceiling directly applied.

>999

1 Row at midpt 2-15, 4-15, 5-14, 6-14, 7-13

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

40-0-0

Weight: 288 lb

FT = 20%

REACTIONS. (lb/size) 1=869/0-3-8 (min. 0-1-8), 13=2403/0-3-8 (min. 0-2-13)

Max Horz 1=-248(LC 6)

7-6-6

Max Uplift1=-51(LC 8), 13=-238(LC 8)

Code IRC2015/TPI2014

Max Grav 1=992(LC 17), 13=2403(LC 1)

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

TOP CHORD 1-2=-1391/105, 2-3=-900/83, 3-4=-880/132, 4-5=-658/156, 5-23=-74/358,

6-23=-74/358, 6-7=-111/466, 7-8=-125/1009, 8-9=-130/871, 9-10=-117/687

14-9-10

1-16=0/1170, 15-16=0/1170, 14-15=-19/422, 14-24=-797/271, 13-24=-797/271,

12-13=-463/188, 10-12=-463/188

WEBS 2-16=0/290, 2-15=-570/165, 5-15=-35/692, 5-14=-1020/137, 6-14=-449/78,

7-14=-48/1608, 7-13=-2008/150, 9-13=-505/125, 9-12=-82/303

NOTES-

BOT CHORD

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 13=238.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	Т8	Piggyback Base	2	1	Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:36:58 2025 Page 2 ID:F_kzji0liblMsA9nfTFnH2yF3gm-5SJ8oq2j2vXiluBppKMXxUc1wjqFpdvuBwnrflymLsJ

NOTES-

- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) 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				- 1	Qty	Ply	Freedom Const\	Wilson Left Gara	
28849		Т9	Piggyback B	ase				1	1			
										Job Reference (option	onal)	
C&R Buildir	ng Supply, A	utryville NC					8.43	0 s Jan	20 202	1 MiTek Industries, Ind	c. Tue Aug 19 08:36:59	9 2025 Page 1
							ID:F_	kzji0liblN	IsA9nfTF	nH2yF3gm-ZesX092LpD	fZw1m?N1umTi9C07AWY	541PZWOClymLsI
		7-6-6	14-9-10	_ 2	20-0-0	1	2	5-2-6	- 1	32-5-10	40-0-0	
		7-6-6	7-3-4		5-2-6			5-2-6	ľ	7-3-4	7-6-6	

Scale = 1:70.4

40-0-0

Weight: 264 lb

FT = 20%

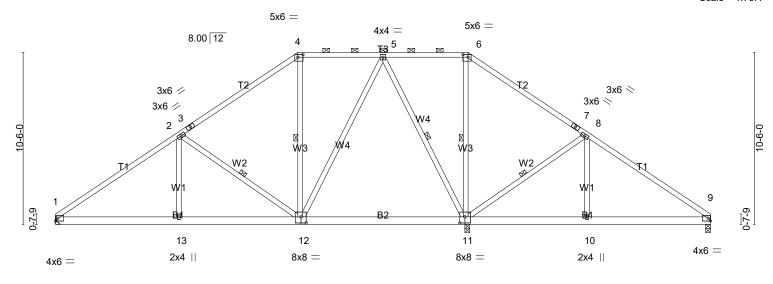


Plate Offsets (X,Y)-- [4:0-3-12,0-2-0], [6:0-3-12,0-2-0], [11:0-3-12,0-4-8], [12:0-3-12,0-4-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES GRIP** 20.Ó Plate Grip DOL TCLL 1.15 TC 0.26 Vert(LL) -0.12 11-12 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.33 Vert(CT) -0.18 11-12 >999 240 BCLL WB n/a

TOP CHORD

25-0-0

0.0 Rep Stress Incr 0.64 Horz(CT) YES 0.02 11 n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-AS Wind(LL) 0.02 13-16 >999 **BRACING-**

14-9-10

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 4-6. **BOT CHORD** Rigid ceiling directly applied.

32-5-10

WEBS 1 Row at midpt 2-12, 4-12, 5-11, 6-11, 8-11

240

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

REACTIONS. (lb/size) 1=913/Mechanical, 9=455/0-3-8 (min. 0-1-8), 11=1832/0-3-8 (min. 0-2-4)

Max Horz 1=-235(LC 6)

7-6-6

Max Uplift1=-75(LC 8), 9=-42(LC 8), 11=-130(LC 8)

Max Grav 1=927(LC 17), 9=490(LC 18), 11=1886(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1282/146, 2-3=-769/126, 3-4=-750/175, 4-5=-568/192, 6-7=0/323,

8-9=-535/90

TOP CHORD 2x4 SP 2400F 2.0E

2x4 SP No.3

BOT CHORD 2x6 SP No.1

BOT CHORD 1-13=-27/1115, 12-13=-27/1115, 11-12=-21/325, 10-11=0/355, 9-10=0/355 WEBS 2-13=0/294, 2-12=-573/163, 5-12=-11/726, 5-11=-1011/97, 6-11=-474/60,

8-11=-597/164, 8-10=0/308

NOTES-

LUMBER-

WFBS

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 11=130.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	Т9	Piggyback Base	1	1	Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:36:59 2025 Page 2 ID:F_kzji0libIMsA9nfTFnH2yF3gm-ZesX092LpDfZw1m?N1umTi9C07AWY541PZWOClymLsI

NOTES-

- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) 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	Freedom Const\	Wilson Left Gara	
28849	T10		Piggyback	Base			4	1			
									Job Reference (option	onal)	
C&R Building Supply, Au	utryville NC					3	3.430 s Jan	20 2021	MiTek Industries, Industries	c. Tue Aug 19 08:36:59	2025 Page 1
						I	D:F_kzji0liblN	/IsA9nfTFr	nH2yF3gm-ZesX092LpD	fZw1m?N1umTi9C07AWY	541PZWOClymLsI
1	7-6-6	1	14-9-10	1	20-0-0		25-2-6		32-5-10	40-0-0	1

5-2-6

7-3-4

5-2-6

Scale = 1:70.4

7-6-6

40-0-0

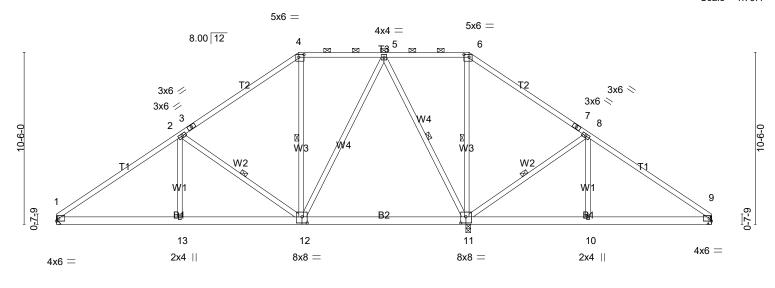


Plate Offs	Plate Offsets (X,Y) [4:0-3-12,0-2-0], [6:0-3-12,0-2-0], [11:0-3-12,0-4-8], [12:0-3-12,0-4-8]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.12 1Ì-1Ź	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.33	Vert(CT)	-0.18 11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.02 11	n/a	n/a		
BCDI	10.0	Code IRC2015/T	PI2014	Matri	x-AS	Wind(LL)	0.02.13-16	>999	240	Weight: 264 lb	FT = 20%

25-1-12

10-4-2

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3 BRACING-

TOP CHORD

BOT CHORD WEBS Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 4-6.

Rigid ceiling directly applied.

1 Row at midpt 2-12, 4-12, 5-11, 6-11, 8-11

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

REACTIONS. (lb/size) 1=913/Mechanical, 11=1832/0-3-8 (min. 0-2-4), 9=455/Mechanical

14-9-10

Max Horz 1=-235(LC 6)

7-6-6

7-3-4

Max Uplift1=-75(LC 8), 11=-130(LC 8), 9=-42(LC 8) Max Grav1=927(LC 17), 11=1886(LC 13), 9=490(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1282/146, 2-3=-769/126, 3-4=-750/175, 4-5=-568/192, 6-7=0/323,

8-9=-535/90

BOT CHORD 1-13=-27/1115, 12-13=-27/1115, 11-12=-21/325, 10-11=0/355, 9-10=0/355 WEBS 2-13=0/294, 2-12=-573/163, 5-12=-11/726, 5-11=-1011/97, 6-11=-474/60,

8-11=-597/164, 8-10=0/308

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 11=130.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	T10	Piggyback Base	4	1	
					Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:37:00 2025 Page 2 ID:F_kzji0liblMsA9nfTFnH2yF3gm-1rQvDV3zaWnQYBLBwkP?0viNmXWlHYKBeDGykBymLsH

NOTES-

- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

 10) 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	Freedom Const\	Wilson Left Gara	
28849	T11	Piggyback Base		3	1			
						Job Reference (option	onal)	
C&R Building Supply, Au	utryville NC			8.430 s Jan	20 2021	MiTek Industries, Industries	c. Tue Aug 19 08:37:00 2	025 Page 1
			I	D:F_kzji0liblMs	A9nfTFnF	l2yF3gm-1rQvDV3zaWn	QYBLBwkP?0viNmXWIHYKB	eDGykBymLsH
₁ 1-2-8	7-6-6	14-9-10	20-0-0	25-2-6	1	32-5-10	40-0-0	1

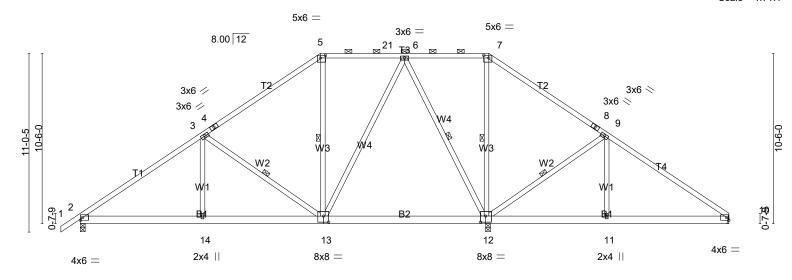
5-2-6

7-3-4

5-2-6

Scale = 1:71.1

7-6-6



ŀ	7-6-6 7-6-6	14-9- 7-3-		-	25-1-12 10-4-2	25-2-6 0-0-10	32-5- 7-3-		40-0-0 7-6-6	——
Plate Offsets ((,Y) [5:0-3-12,0-2-0], [7:0-3-12,0-2-0], [12:0-3-1	2,0-4-8],	[13:0-3-12,0-4-8]				
LOADING (psf TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Plate Grip DO Lumber DOL	1.15 or YES	CSI. TC BC WB Matri	0.26 0.33 0.64	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.12 12-13 -0.18 12-13 0.02 12 0.02 11-20	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 266 lb	GRIP 244/190 FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 2x4 SP No.3 WEBS

1-2-8

7-6-6

7-3-4

BRACING-

TOP CHORD

Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 5-7.

BOT CHORD WEBS

Rigid ceiling directly applied.

1 Row at midpt 3-13, 5-13, 6-12, 7-12, 9-12

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

REACTIONS. (lb/size) 2=986/0-3-8 (min. 0-1-8), 12=1834/0-3-8 (min. 0-2-4), 10=453/Mechanical

Max Horz 2=248(LC 7)

Max Uplift2=-116(LC 8), 12=-131(LC 8), 10=-41(LC 8)

Max Grav 2=1000(LC 17), 12=1888(LC 13), 10=489(LC 18)

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

2-3=-1271/138, 3-4=-765/123, 4-5=-746/172, 5-21=-565/189, 6-21=-565/189, TOP CHORD

7-8=0/327, 9-10=-534/88

BOT CHORD 2-14=-20/1105, 13-14=-20/1105, 12-13=-21/322, 11-12=0/354, 10-11=0/354 3-14=0/291, 3-13=-566/157, 6-13=-11/726, 6-12=-1011/97, 7-12=-476/62, WEBS

9-12=-597/165, 9-11=0/309

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=116, 12=131.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	T11	Piggyback Base	3	1	
					Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:37:00 2025 Page 2 ID:F_kzji0liblMsA9nfTFnH2yF3gm-1rQvDV3zaWnQYBLBwkP?0viNmXWlHYKBeDGykBymLsH

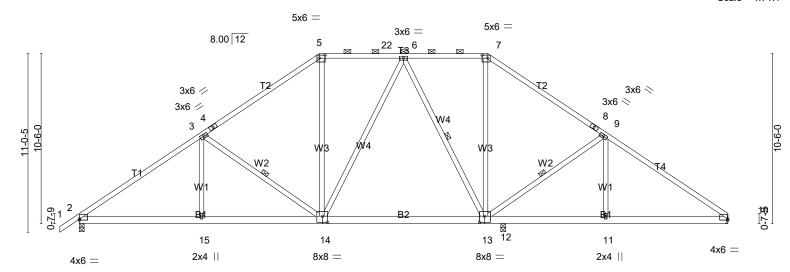
NOTES-

- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

J	lob	Truss	Truss Type		Qty	Ply	Freedom Const\	Wilson Left Gara	
2	28849	T12	Piggyback Bas	е	4	1			
							Job Reference (option	onal)	
	C&R Building Supply, A	utryville NC			8.430 s Jan	20 2021	MiTek Industries, Industries, Industries	c. Tue Aug 19 08:37:01 20	25 Page 1
					ID:F_kzji0liblN	/IsA9nfTFr	nH2yF3gm-W1_HRr4bLq	wH9LwNUSwEZ7EYfxrV03mK	tt?VGdymLsG
	₁ 1-2-8	7-6-6	14-9-10	20-0-0	25-2-6	1	32-5-10	40-0-0	1
	1-2-8	7-6-6	7-3-4	5-2-6	5-2-6	1	7-3-4	7-6-6	1

Scale = 1:71.1



	7-6-6 7-6-6	+ 14-9-1 7-3-4	-		25-2-6 10-4-12	26-3-8 1-1-2		5-10 2-2	40-0-0 7-6-6	
Plate Offsets (X,Y) [2:0-0-0,0-0-11], [5:0-4-4,0-2-4],	[7:0-4-4,0-	2-4], [10:0	0-0-0,0-0-11], [1	3:0-3-12,0-4-8], [14:0-3	3-12,0-4-8]		
LOADING (psi TCLL 20.1 TCDL 10.1 BCLL 0.1	Plate Grip DO Lumber DOL Rep Stress Inc	1.15 or YES	CSI. TC BC WB	0.25 0.43 0.44	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.14 13-14 -0.25 13-14 0.03 10	I/defI >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC201	5/TPI2014	Matrix	x-AS	Wind(LL)	0.06 13-14	>999	240	Weight: 266 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E 2x4 SP No.3 WFBS

BRACING-

TOP CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 5-7.

Rigid ceiling directly applied.

BOT CHORD WEBS 1 Row at midpt

3-14, 6-13, 9-13 MiTek recommends that Stabilizers and required cross

bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1319/0-3-8 (min. 0-1-8), 10=929/Mechanical, 12=1025/0-3-8 (min. 0-1-8)

Max Horz 2=248(LC 7)

Max Uplift2=-137(LC 8), 10=-68(LC 8), 12=-84(LC 8)

Max Grav 2=1368(LC 13), 10=1007(LC 14), 12=1025(LC 1)

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

TOP CHORD 2-3=-1878/172, 3-4=-1446/159, 4-5=-1427/208, 5-22=-1139/220,

6-22=-1139/220, 6-7=-771/188, 7-8=-991/170, 8-9=-1010/121,

9-10=-1354/131

2-15=-48/1635, 14-15=-48/1635, 13-14=0/1058, 12-13=-14/1027,

11-12=-14/1027, 10-11=-14/1027

WEBS 3-15=0/258, 3-14=-523/154, 5-14=0/443, 6-14=0/359, 6-13=-672/79,

7-13=0/260. 9-13=-445/152

NOTES-

BOT CHORD

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 12 except (jt=lb) 2=137.

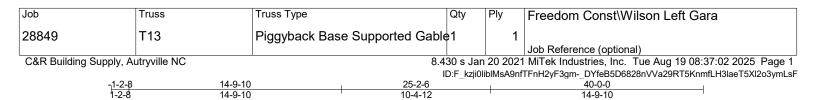
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	T12	Piggyback Base	4	1	
					Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:37:01 2025 Page 2 ID:F_kzji0libIMsA9nfTFnH2yF3gm-W1_HRr4bLqwH9LwNUSwEZ7EYfxrV03mKtt?VGdymLsG

NOTES-

- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



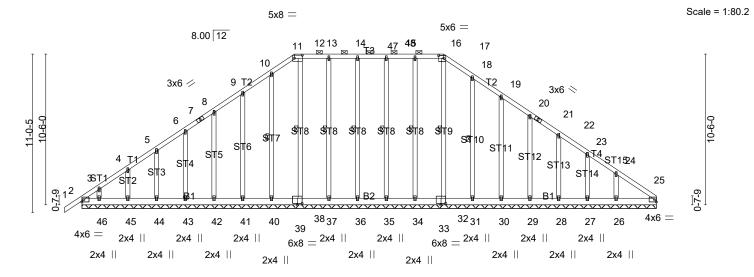


Plate Offsets (X,Y)-	- [11:0-6-8,0-2-8], [17:0-4-4,0-2-4], [32:0-4-0,0-1-4], [39	40-0-0 9:0-4-0,0-1-4]			'	
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.04 BC 0.02	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00	(loc) l/defl 1 n/r 1 n/r	L/d 120 120		GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.14 Matrix-S	Horz(CŤ) 0.00	25 n/a	n/a	Weight: 346 lb	FT = 20%

40-0-0

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP No.1 OTHERS 2x4 SP No.3 BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except

excep

2-0-0 oc purlins (6-0-0 max.): 11-17.

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

17-32, 16-34, 15-35, 14-36, 13-37,

12-38, 10-40, 18-31

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

REACTIONS. All bearings 40-0-0.

(lb) - Max Horz 2=249(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 36, 37, 40, 41,

42, 43, 44, 45, 46, 31, 30, 29, 28, 27, 26

Max Grav All reactions 250 lb or less at joint(s) 2, 32, 34, 35, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 31, 30, 29, 28, 27, 26, 25

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 31, 30, 29, 28, 27, 26. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	T13	Piggyback Base Supported Gable	1	1	
					Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:37:03 2025 Page 2 ID:F_kzji0liblMsA9nfTFnH2yF3gm-SP61sX6rtRA?Pf4mctyieYKxOkclU1tdKBUcLWymLsE

NOTES-

- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

		, ,		, ,	110000	on Concentration	bon Lon Can	1
28849	T14	COMMON GIRDE	:R 1		1			
						erence (optional)		
C&R Building Su	pply, Autryville NC							:03 2025 Page 1
	100	2.0.40	ID:F_	kzji0liblMsA9r	nfTFnH2yF3gn	n-SP61sX6rtRA?Pf	4mctyieYKvQkUSI	JzmdKBUcLWymLsE
	-1-2-8 1-2-8	3-0-12 3-0-12	5-10-0 2-9-4	8-7-4 2-9-4	+	11-8-0 3-0-12	1	
	. = 0	0 0 .2	20.			00.2		
			4x4 =					Scale = 1:32.9
			4					
	ĪĪ							
			// `					
		40.00 40						
		10.00 12 4x4 //			4x	⟨4 ◇		
		3 //			5			
	ιģ	3//			XX			
	6-3-0	71			/			
	` d	/// \	W4					
						2x4	II	
	2x4	///w/2	W3	/w3		W2 6		
	2	/// // 2				WZ		
	9 /	V				Mali		
	0-10-0		B-1				0-10-0	
		10	11 0		12	13	10	
		9 3x8 =	8		12	13		
			6x8 =			3x8 =		
		5-10-0			11-8-0		I	
		5-10-0			5-10-0		I	
LOADING (psf)	SPACING-	2-0-0 CSI .	DEFL.	in (lo	oc) I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15 TC 0.1		-0.07	3-9 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15 BC 0.5			3-9 >999	240		,
BCLL 0.0	* Rep Stress Incr	NO WB 0.4	1 Horz(CT)	0.01	7 n/a	n/a		
BCDL 10.0	Code IRC2015/TF	PI2014 Matrix-MS			3-9 >999	240	Weight: 75 lb	FT = 20%
LUMPED			DDACING	<u> </u>				
LUMBER-			BRACING	 -				

Qty

Ply

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except*

W1: 2x6 SP No.1

TOP CHORD

BOT CHORD

purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Freedom Const\Wilson Left Gara

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

Structural wood sheathing directly applied or 5-10-13 oc

REACTIONS. (lb/size) 9=1158/0-3-8 (min. 0-1-8), 7=1102/0-3-8 (min. 0-1-8)

Max Horz 9=156(LC 7)

Max Uplift9=-294(LC 8), 7=-254(LC 8)

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

TOP CHORD 2-3=-426/134, 3-4=-959/281, 4-5=-961/282, 5-6=-472/156, 2-9=-416/154,

6-7=-350/114

BOT CHORD 9-10=-170/715, 10-11=-170/715, 8-11=-170/715, 8-12=-139/729,

12-13=-139/729. 7-13=-139/729

WEBS 4-8=-297/979, 3-9=-644/132, 5-7=-602/112

NOTES-

Job

Truss

Truss Type

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=294, 7=254.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 255 lb down and 94 lb up at 2-0-12, 255 lb down and 94 lb up at 4-0-12, 255 lb down and 94 lb up at 6-0-12, and 255 lb down and 94 lb up at 8-0-12, and 255 lb down and 94 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	T14	COMMON GIRDER	1	1	
					Job Reference (optional)

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:37:03 2025 Page 2 ID:F_kzji0liblMsA9nfTFnH2yF3gm-SP61sX6rtRA?Pf4mctyieYKvQkUSUzmdKBUcLWymLsE

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-60, 2-4=-60, 4-6=-60, 7-9=-20 Concentrated Loads (lb) Vert: 8=-255(B) 10=-255(B) 11=-255(B) 12=-255(B) 13=-255(B)

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	V1	Valley	1	1	
					Job Reference (optional)
C&R Building Supply,	Autryville NC				MiTek Industries, Inc. Tue Aug 19 08:37:04 2025 Page 1
	1	10-8-14	ID:F_KZJ	OlidiidisA9	nfTFnH2yF3gm-wcgQ3t6Uells0pey9aTxAls3h8wxDUvmZrE9tyymLsD 21-5-13
		10-8-14			10-8-14
		4x4	=		Scale = 1:50.9
	T	4			
	10.0	00 12			
	2-	3 T1		5	V 1
	8-11-7	В тз			
	2/	ST2		ST2	6
	1 ST1				ST1 7
	4 ************************************		B2	u	××××××××××××××××××××××××××××××××××××××
			^//////////////////////////////////////	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	3x6 // 13	12 11 10 3x6 =		9	8 3x6 ⊗
		21-5-i 21-5-i	3		21-5-13 0-0-5
LOADING (psf) TCLL 20.0		0-0 CSI . DE	FL.	in (loc) /a -	
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1	.15 BC 0.19 Ve	\ /	/a -	n/a 999
BCDL 10.0	Code IRC2015/TPI20		. ,		Weight: 105 lb FT = 20%
LUMBER-		BR	ACING-		<u>'</u>
TOP CHORD 2x4 SF	No.2	TC	P CHORD	Struc	tural wood sheathing directly applied or 6-0-0 oc purlins.

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

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

1 Row at midpt 4-10

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

REACTIONS. All bearings 21-5-3.

(lb) - Max Horz 1=-206(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 8 except

11=-119(LC 8), 9=-119(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=368(LC 13), 11=436(LC 13), 13=294(LC 13), 9=436(LC 14), 8=294(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-11=-296/169, 5-9=-296/169

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 8 except (it=lb) 11=119, 9=119.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\\	Wilson Left Gara
28849	V2	Valley	1	1		
COD Buildin - Cu	and Autorilla NO		0.420 - 1-	- 00 0004	Job Reference (option	onal)
C&R Building Su	pply, Autryville NC					c. Tue Aug 19 08:37:04 2025 Page 1 Uells0pey9aTxAls2P8wxDU7mZrE9tyymLsD
	<u> </u>	9-1-11			18-3-6	
	1	9-1-11	1	!	9-1-11	,
			4x4 =			Scale = 1:43.2
	1	10.00 12 1.5x4 21 ST1	ST2	ST B2	1.5x4 4 T1	5
	3 *************************************			<u> </u>	^^^^	-6 -4
	3x6 //	⁸ 5x6 =	7	6		3x6 ◇
			1.5x4	1.5x	4	
	0-0-5 0-0-5		18-3-6			
Plate Offsets (X			18-3-2			•
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0	SPACING- Plate Grip DOL Lumber DOL * Rep Stress Incr	2-0-0 CSI. 1.15 TC 0.28 1.15 BC 0.19 YES WB 0.14	Vert(CT) r	in (loc) n/a - n/a - .00 5	n/a 999 n/a 999	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/T	PI2014 Matrix-S				Weight: 82 lb FT = 20%
LUMBER-	·		BRACING-			

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 18-2-13.

(lb) - Max Horz 1=-174(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) except 8=-141(LC 8),

6=-145(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=335(LC

13), 8=507(LC 13), 6=518(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-340/192, 4-6=-347/197

NOTES.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 8 and 145 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Ty	/pe	(ty F	Ply	Freedo	m Const∖W	ilson Left Gara	a
28849	V3	Valley		1		1				
							Job Refe	rence (optiona	al)	
C&R Building Su	upply, Autryville NC									:05 2025 Page 1
		7-0	: Q	ID:F	_kzji0liblN		FnH2yF3gm 5-1-0	n-OoEoGD76P3	QjeyD9jI_AjzPFhYHI	NyywwoVzjPOymLsC
	 	7-6	3-8				7-6-8			
										01- 4-00-0
				4x4 =						Scale = 1:36.0
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.00 12 1.5x4 2	T1	ST2			ST1	x4	5 -0-4	
	3x6 //								3x6 ♦	
	JAU //	8 1.5x4	II	7 1.5x4		1	6 .5x4		OVO /	
		1.5X4	11			'	.584			
	0-0-5 0-0-5			15-1-0 15-0-11					——	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0	Plate Grip DOI Lumber DOL	1.15	CSI. TC 0.19 BC 0.11 WB 0.11	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	` - -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0			Matrix-S	11012(01)	0.00	0	11/4	71/4	Weight: 66 lb	FT = 20%
LUMBER-				BRACING	}-			I		

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

OTHERS 2x4 SP No.3 TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. All bearings 15-0-6

(lb) - Max Horz 1=-142(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) except 8=-117(LC 8),

6=-117(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except

8=366(LC 13), 6=366(LC 14)

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

2-8=-283/160, 4-6=-283/160 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 8 and 117 Ib uplift at joint 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	V4	Valley	1	1	
				<u> </u>	Job Reference (optional)
C&R Building Sup	ply, Autryville NC				1 MiTek Industries, Inc. Tue Aug 19 08:37:05 2025 Page 1
	11	5-11-5	ID:F_KZJIUII	DIIVISA9NTI	TFnH2yF3gm-OoEoGD76P3QjeyD9jI_AjzPFhYHByyXwoVzjPOymLsC 11-10-10
		5-11-5			5-11-5
					Scale = 1:28.4
			4x4 =		Ocale - 1.20.4
	1	10.00 12 T1 2 \$T1	ST2		1.5x4 4 \$T1 5
	4x4 //	8	7		6 4x4 ◇
	·	1.5x4	1.5x4		1.5x4
	0-0-5	(1)	11-10-10		
	0-0-5 0-0-5		11-10-10		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 CSI. 1.15 TC 0.19 1.15 BC 0.12 YES WB 0.07 Pl2014 Matrix-S	Vert(LL) n	in (loc) /a - /a - 00 5	n/a 999 MT20 244/190 n/a 999
I UMBER-	1	1	BRACING-		1

LUMBER-

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

OTHERS 2x4 SP No.3 **BRACING-**

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

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

REACTIONS. All bearings 11-10-0.

(lb) - Max Horz 1=110(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-104(LC 8),

6=-104(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=319(LC 13), 6=319(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-8=-258/147, 4-6=-258/147 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=104, 6=104.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\Wilson Left Gara
28849	V5	Valley	1	1	
C&R Building Supp	ly, Autryville NC	4-4-2 4-4-2	8.430 s Ja ID:F_kzji0lib	olMsA9nfTF	Job Reference (optional) 21 MiTek Industries, Inc. Tue Aug 19 08:37:06 2025 Page FnH2yF3gm-s_nAUZ8k9MYZG6oLH?WPGAyObycuhQ8309jGxrymLs 8-8-3 4-4-2
			4x4 =		Scale = 1:22
	9-0-4	10.00 \(\bar{12} \)			3
	2x4 //	1.5x4	4		2x4 ∕
	0-0-5 0-0-5	3	8-8-3 3-7-14		<u> </u>
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	1.15 TC 0.30 1.15 BC 0.16 YES WB 0.05	Vert(CT)	in (loc n/a - n/a - .00 3	n/a 999 MT20 244/190
LUMBER- TOP CHORD 2x4	SP No.2		BRACING- TOP CHORD	Struc	octural wood sheathing directly applied or 6-0-0 oc purling

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

OTHERS 2x4 SP No.3

TOP CHORD BOT CHORD

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

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

REACTIONS. (lb/size) 1=181/8-7-10 (min. 0-1-8), 3=181/8-7-10 (min. 0-1-8), 4=269/8-7-10 (min. 0-1-8)

Max Horz 1=-79(LC 6)

Max Uplift1=-37(LC 8), 3=-37(LC 8)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

28849	V6	Valley			1		, ,,		
000000000000000000000000000000000000000			2.40				rence (option		100 0005 D
C&R Building Supply, Autryville NC 8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Aug 19 08:37:06 2025 Page 1 ID:F_kzji0liblMsA9nfTFnH2yF3gm-s_nAUZ8k9MYZG6oLH?WPGAyRpyeThQW309jGxrymLsB									
		2 9 14	ID:F_k	zjiUliblMsA	9ntiFnF	l2y⊦3gm-s - 12	_nAUZ8k9MY	ZG6oLH?WPGAyRpye	ThQW309jGxrymLsB
	<u> </u>	2-8-14 2-8-14		5-5-13 2-8-14					
		2-0-14		2-0-14					
			4x4 =						Scale = 1:15.0
									
	2-3-7	10.00 \(\bar{12} \)	ST1		1 1		3		
	2x	1 /	B1 A 1.5x4			2x4		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
		·	.,						
	0-0-5		5-5-13					1	
	0-0 <u>-5</u> 0-0-5		5-5-8						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 CSI. 1.15 TC 0.10 1.15 BC 0.00 YES WB 0.00	6 Vert(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL 10.0	Code IRC2015/T	PI2014 Matrix-P						Weight: 20 lb	FT = 20%
LUMBER- TOP CHORD 2x4 BOT CHORD 2x4 OTHERS 2x4		I	BRACING TOP CH	ORD	Purling Rigid MiTe brace	s. ceiling di ek recom ing be in	rectly appli mends tha stalled duri	g directly applied or ed or 10-0-0 oc bra t Stabilizers and rec ng truss erection, in ter Installation guide	cing. quired cross

Qty

Freedom Const\Wilson Left Gara

REACTIONS. (lb/size) 1=107/5-5-3 (min. 0-1-8), 3=107/5-5-3 (min. 0-1-8), 4=160/5-5-3 (min. 0-1-8)

Truss Type

Max Horz 1=47(LC 7)

Max Uplift1=-22(LC 8), 3=-22(LC 8)

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

NOTES-

Job

Truss

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss	Туре	0	Qty	Ply	Freedo	m Const∖V	Vilson Left G	ara
28849	V7	Valle	V		1	1				
		,	,					rence (optior		
C&R Building Suppl	ly, Autryville NC									:37:07 2025 Page 1 MyqQtFDFpSpUHymLsA
			4-6-14	ID.IK	ZjiUlibliv	9	9-1-13	CDL I IIV SIVIW GGC		viyqQtrDrpSpOt tyttLSA
		ı	4-6-14	'		4	1-6-14		ı	
				4x4 =						Scale = 1:23.2
				2						
	Ī									
		10.00 1	$\overline{2}$							
		.0.00 .	-	/ `						
	7		T1/			/ /	1			
	3-9-12			ST1						
								3		
		1/2/							<u> </u>	
	4.0-0		*****		~~~	~~~~	//////	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	×× 5-	
	Ö		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>	·///	/VVV	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
		2x4 //		4				2x4 📎		
				1.5x4						
	0-	Q-5 0-5		9-1-13						
	0-	Ö -5		9-1-8					1	
LOADING (psf)	SPACING		CSI.	DEFL.		in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip		TC 0.24	Vert(LL)	n/	′a -	n/a	999	MT20	244/190
TCDL 10.0 BCLL 0.0 *	Lumber D Rep Stres		BC 0.18 WB 0.05	Vert(CT) Horz(CT			n/a n/a	999 n/a		
BCDL 10.0		2015/TPI2014	Matrix-S	11012(01	, 0.0		II/a	11/4	Weight: 34	lb FT = 20%
LUMBER-			<u> </u>	DDACIN						
				BRACING TOP CH		Struc	tural woo	d sheathing	directly applied	or 6-0-0 oc purlins.
				BOT CH					d or 10 0 0 oc k	

BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3 **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. (lb/size) 1=177/9-1-3 (min. 0-1-8), 3=177/9-1-3 (min. 0-1-8), 4=314/9-1-3 (min. 0-1-8)

Max Horz 1=-83(LC 6)

Max Uplift1=-28(LC 8), 3=-28(LC 8)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Freedom Const\\	Vilson Left Gara		
28849	V8	Valley	1	1	Job Reference (option	nal)		
C&R Building Supply, A	utryville NC		8.430 s Jan	20 2021		. Tue Aug 19 08:37:07 2025 Page 1		
0 11 37	,		ID:F_kzji0liblM	lsA9nfTFn	H2yF3gm-KBLYhv9Mwgg	gQtGNXrj1eoOUcCMzXQtkDFpSpUHymLsA		
		2-11-11 2-11-11	+	5-	11-6 1-11	\dashv		
		2-11-11		2-1	11-11			
		4	x4 =			Scale: 3/4"=1'		
	2-5-12		T11	1 1	3	0-0-4		
	2x4 //	4 1.5x4			2x4 📏			
	0-0-5	5_	11-6					
	0- <u>0-5</u> 0-0-5	5-	11-2			\dashv		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	Rep Stress Incr YE	15 TC 0.12 V 15 BC 0.07 V ES WB 0.02 H	EFL. i ert(LL) n/ert(CT) n/orz(CT) 0.0	a -	n/a 999 n/a 999	PLATES GRIP MT20 244/190		
BCDL 10.0	Code IRC2015/TPI20	14 Matrix-P				Weight: 22 lb FT = 20%		
TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2			RACING- OP CHORD OT CHORD	P CHORD Structural wood sheathing directly applied or 5-11-purlins. T CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.				
				brad	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.			

REACTIONS. (lb/size) 1=118/5-10-13 (min. 0-1-8), 3=118/5-10-13 (min. 0-1-8), 4=175/5-10-13 (min. 0-1-8) Max Horz 1=51(LC 7)

Max Uplift1=-24(LC 8), 3=-24(LC 8)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Frandom Const	\Wilson Left Gara	
		• •		-	Freedom Const	Wilson Left Gara	
28849	V9	Valley	1	1	Job Reference (opt	ional)	
C&R Building Suppl	y, Autryville NC		8.430 s Jan	20 2021	MiTek Industries, In	nc. Tue Aug 19 08:37:08 2025 Page 1	
		3-7-3	ID:F_kzji0lib	IMsA9nfTI	FnH2yF3gm-oNvwvE9_b	n_oHVQykOQYtLb1mLlJR9JrMUTCN0jymLs9	
\vdash		3-7-3 3-7-3			7-2-5 3-7-3		
						Scale = 1:13.3	
			4x4 =			Sould 1.16.0	
			4A4 —				
			2				
Ī	0.0	00 12	2				
	6.0	10 12					
		T1/			J 1		
1-9-9		/ /					
-			ST1				
						3	
	1						
4			B1			4	
40-0			××××××××××××××××××××××××××××××××××××××	×	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	XXXXXXXXXX	
_	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<u> </u>	V V V V V			
			4				
	2x4 🕖	1.5x	4		2	x4 📎	
	_						
0- <u>Ω-</u> 0-0-	8 8		7-2-5 7-1-13				
LOADING (===f)	CDACING 0.0	0 001	DEEL	(1)	1/1-41 1/1	DI ATEC COID	
LOADING (psf) TCLL 20.0	SPACING- 2-0 Plate Grip DOL 1.		DEFL. Vert(LL) n.	in (loc) ′a -) l/defl L/d n/a 999	PLATES GRIP MT20 244/190	
TCDL 10.0	Lumber DOL 1.1	5 BC 0.09	Vert(CT) n	/a -	n/a 999		
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YE Code IRC2015/TPI201		Horz(CT) 0.0	0 3	n/a n/a	Weight: 22 lb FT = 20%	
	Oue 11\02013/1F120	IVIAU IX-F				Weight. 22 ib 1 1 - 20%	
LUMBER-	CD No 2		BRACING- TOP CHORD	Ctr	stural wood obs-thin	and directly applied or 6.0.0 or a military	
	FOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2					ng directly applied or 6-0-0 oc purlins. lied or 10-0-0 oc bracing.	
OTHERO 0::4	BOT CHORD		- Ingla coming an ootly applied of 10 0 0 00 bidding.				

OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) 1=120/7-1-5 (min. 0-1-8), 3=120/7-1-5 (min. 0-1-8), 4=234/7-1-5 (min. 0-1-8)

Max Horz 1=29(LC 7)

Max Uplift1=-21(LC 8), 3=-21(LC 8)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.