

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 22020378-01

Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Lexington, NC).

Pages or sheets covered by this seal: T31092866 thru T31092881

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



July 20,2023

Lee, Julius

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

27-8-0

9-0-0

Scale = 1:89.3

40-2-12

3-6-12

Structural wood sheathing directly applied, except

8-19, 8-16, 5-22

2-0-0 oc purlins (2-8-5 max.): 4-10.

Rigid ceiling directly applied.

1 Row at midpt

36-8-0

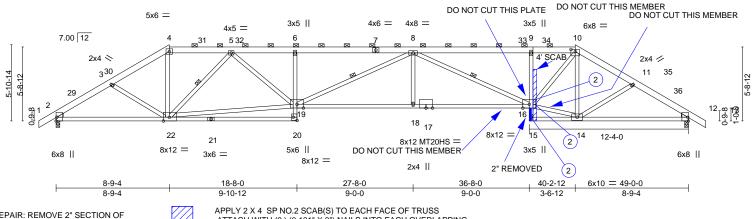
9-0-0

44-<u>7-15</u>

4-5-3

49-0-0

LUMBER AND CONNECTOR PLATES (SHOWN SHADED) TO BE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.



REPAIR: REMOVE 2" SECTION OF TRUSS SHOWN SHADED

13-6-14

4-9-10

APPLY 2 X 4 SP NO.2 SCAB(S) TO EACH FACE OF TRUSS ATTACH WITH (2) (0.131" X 3") NAILS INTO EACH OVERLAPPING MEMBER EACH FÁCE.

Plate Off	Plate Offsets (X,Y) [2:Edge,0-0-10], [10:0-4-0,0-2-0], [12:Edge,0-0-10], [20:Edge,0-3-8], [22:0-5-8, Edge]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.48 18-19	>999	240	MT20	244/190		
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-1.04 18-19	>568	180	MT20HS	187/143		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.34 12	n/a	n/a				
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	c-AS					Weight: 329 lb	FT = 20%		

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.2 *Except*

17-19: 2x4 SP 2400F 2.0E, 16-17: 2x4 SP No.1 **WEBS**

2x4 SP No.3 *Except*

14-16,19-22: 2x4 SP No.2

WEDGE

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

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=-99(LC 10)

Max Uplift 2=-48(LC 12), 12=-48(LC 12) Max Grav 2=2040(LC 1), 12=2040(LC 1)

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

TOP CHORD 2-3=-3118/59, 3-4=-3061/54, 4-5=-2649/68, 5-6=-5160/84, 6-8=-5240/81, 8-9=-4188/72,

9-10=-4137/75, 10-11=-3044/61, 11-12=-3124/63

BOT CHORD 2-22=0/2542, 20-22=0/417, 6-19=-452/93, 18-19=0/5531, 16-18=0/5531, 9-16=-464/86, 12-14=0/2555

> 3-22=0/267, 4-22=0/1115, 8-19=-392/0, 8-18=0/411, 8-16=-1555/8, 14-16=0/2637, 10-16=0/2401, 10-14=-645/17, 5-22=-1868/49, 19-22=0/3486, 5-19=0/1711

NOTES-

WEBS

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 8-9-4, Exterior(2R) 8-9-4 to 13-0-3 , Interior(1) 13-0-3 to 40-2-12, Exterior(2R) 40-2-12 to 44-5-11, Interior(1) 44-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



July 20,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

27-8-0

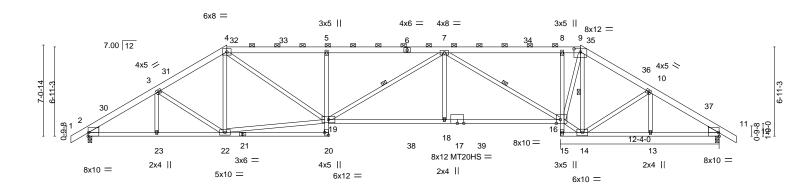
9-0-0

Scale = 1:89.5

43-7-15

49-0-0

49-0-0



SEE DWG T31092866 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT15-16

36-8-0

38-2-12

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-1-11 max.): 4-9.

Rigid ceiling directly applied.

1 Row at midpt

43-7-15

7-19, 7-16, 9-14

36-8-0

9-0-0

5-4-1 5-5-4										
3-4-1 3-3-4	7-1	0-12	' 9)-0-0	9-	0-0	1-6-12	5-5-4	5-4-1	1
[2:Edge,0-3-8], [9:0-6-0	0-2-14], [11:Ed	ge,0-3-8], [16	:0-3-12,Edge], [20:Edge,0-3-8]					
SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	S GRIF)
Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.47 18-1	>999	240	MT20	244/1	90
Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.89 18-1	>664	180	MT20H	S 187/1	43
Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.32 1	1 n/a	n/a			
Code IRC2018/7	PI2014	Matrix	(-AS	, ,				Weight:	345 lb FT	= 20%
,	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC Lumber DOL 1.15 BC Rep Stress Incr YES WB	SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC 0.57 Lumber DOL 1.15 BC 0.95 Rep Stress Incr YES WB 0.87	SPACING- 2-0-0 CSI. DEFL. Plate Grip DOL 1.15 TC 0.57 Vert(LL) Lumber DOL 1.15 BC 0.95 Vert(CT) Rep Stress Incr YES WB 0.87 Horz(CT)	SPACING- 2-0-0 CSI. DEFL. in (loc Plate Grip DOL 1.15 TC 0.57 Vert(LL) -0.47 18-19 Lumber DOL 1.15 BC 0.95 Vert(CT) -0.89 18-19 Rep Stress Incr YES WB 0.87 Horz(CT) 0.32 1	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl Plate Grip DOL 1.15 TC 0.57 Vert(LL) -0.47 18-19 >999 Lumber DOL 1.15 BC 0.95 Vert(CT) -0.89 18-19 >664 Rep Stress Incr YES WB 0.87 Horz(CT) 0.32 11 n/a	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d Plate Grip DOL 1.15 TC 0.57 Vert(LL) -0.47 18-19 >999 240 Lumber DOL 1.15 BC 0.95 Vert(CT) -0.89 18-19 >664 180 Rep Stress Incr YES WB 0.87 Horz(CT) 0.32 11 n/a n/a	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATE: Plate Grip DOL 1.15 TC 0.57 Vert(LL) -0.47 18-19 >999 240 MT20 Lumber DOL 1.15 BC 0.95 Vert(CT) -0.89 18-19 >664 180 MT20H: Rep Stress Incr YES WB 0.87 Horz(CT) 0.32 11 n/a n/a	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES GRIP Plate Grip DOL 1.15 TC 0.57 Vert(LL) -0.47 18-19 >999 240 MT20 244/1 Lumber DOL 1.15 BC 0.95 Vert(CT) -0.89 18-19 >664 180 MT20HS 187/1 Rep Stress Incr YES WB 0.87 Horz(CT) 0.32 11 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

WEBS

27-8-0

LUMBER-TOP CHORD 2x6 SP No 2

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

2x4 SP No.1 *Except*

5-20,8-15: 2x4 SP No.3, 17-19: 2x4 SP 2400F 2.0E

10-9-4

10-9-4

18-8-0

7-10-12

18-8-0

20-21: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

19-22,7-19,7-16,14-16,9-16: 2x4 SP No.2

WEDGE

Left: 2x6 SP No.2 , Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8, 11=0-3-8 Max Horz 2=-119(I C 10)

Max Horz 2=-119(LC 10)

Max Uplift 2=-48(LC 12), 11=-48(LC 12) Max Grav 2=2246(LC 17), 11=2257(LC 18)

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

TOP CHORD 2-3=-3480/48, 3-4=-3267/79, 4-5=-4514/96, 5-7=-4550/92, 7-8=-3638/84, 8-9=-3594/87,

9-10=-3281/85, 10-11=-3505/45

BOT CHORD 2-23=0/2959, 22-23=0/2959, 5-19=-534/109, 18-19=0/4864, 16-18=0/4864, 8-16=-389/99,

13-14=0/2891, 11-13=0/2891

WEBS 19-22=0/2674, 4-19=-3/2113, 7-19=-415/0, 7-18=0/514, 7-16=-1486/4, 14-16=0/3308,

9-16=0/2983, 9-14=-1533/0

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 10-9-4, Exterior(2R) 10-9-4 to 15-0-3, Interior(1) 15-0-3 to 38-2-12, Exterior(2R) 38-2-12 to 42-5-11, Interior(1) 42-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

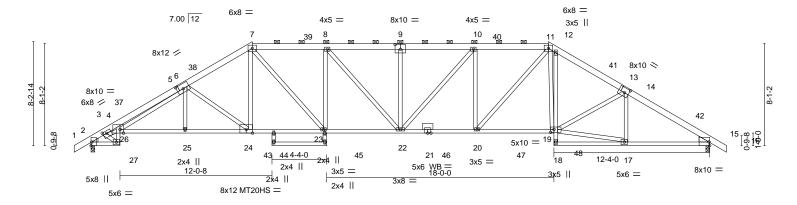




Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092868 Н1В PIGGYBACK BASE 22020378-01 Job Reference (optional) Lexington, NC - 27295, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:17 2023 Page 1 Carter Components (Lexington),



Scale = 1:91.3



SEE DWG T31092866 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT18-19

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-6-8 max.): 7-11.

Rigid ceiling directly applied.

					18-8-0)					
2-3-8	7-5-6	12-9-4	14-4-0 ₁	16-9-4	18-6-12 _{II}	24-6-0	30-5-4	36-2-12	36-8-0	42-4-9	49-0-0
2-3-8	5-1-14	5-3-14	1-6-12 ^l	2-5-4	1-9-8	5-10-0	5-11-4	5-9-8	01514	5-8-9	6-7-7
					0-1-4						

Plate Offsets (X,Y)	rate Orisets (X,Y) [2:Eage,0-0-10], [3:0-3-8,0-2-4], [4:0-3-4,Eage], [5:0-6-0,0-4-8], [9:0-5-0,0-4-8], [13:0-4-4,0-4-8], [15:Eage,0-3-8], [19:0-3-4,0-2-12]											
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP								
TCLL 20.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.35 22-23 >999 240	MT20 244/190								
TCDL 10.0	Lumber DOL 1.15	BC 0.87	Vert(CT) -0.63 22-23 >930 180	MT20HS 187/143								
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.40 15 n/a n/a									
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 377 lb FT = 20%								

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x6 SP No 2 *Except*

13-16.1-5: 2x6 SP 2400F 2.0E

BOT CHORD 2x4 SP No.1 *Except*

2-27: 2x4 SP No.2, 28-29,29-30,23-30,12-18: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except* 17-19,3-26: 2x4 SP No.2

OTHERS 2x6 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8, 15=0-3-8

> Max Horz 2=-139(LC 10) Max Uplift 2=-48(LC 12), 15=-48(LC 12)

Max Grav 2=2287(LC 17), 15=2287(LC 18)

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

TOP CHORD 2-3=-2718/13, 3-4=-5702/5, 4-6=-6095/39, 6-7=-3743/84, 7-8=-3833/99, 8-9=-4032/100, 9-10=-4032/100, 10-11=-3818/99, 11-12=-3496/104, 12-14=-3673/82, 14-15=-3574/51

BOT CHORD 2-27=0/1925, 26-27=0/1435, 4-26=0/577, 15-17=0/2951, 25-26=0/3973, 24-25=0/3976,

23-24=0/3184, 22-23=0/3885, 20-22=0/3835, 19-20=0/3085

WEBS 3-27=-1869/0, 6-24=-925/54, 17-19=0/2851, 14-19=0/326, 14-17=-378/64, 3-26=0/4105, 6-26=0/1750, 7-24=0/769, 9-22=-358/73, 8-23=-686/78, 10-20=-671/80, 7-23=-4/1178,

8-22=-3/403, 10-22=-3/402, 11-20=-2/1174, 11-19=-22/513

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 12-9-4, Exterior(2R) 12-9-4 to 17-0-3, Interior(1) 17-0-3 to 36-2-12, Exterior(2R) 36-2-12 to 40-5-11, Interior(1) 40-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 15. This connection is for uplift only and does not consider lateral forces
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

MANING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ABSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
					T31092868
22020378-01	H1B	PIGGYBACK BASE	1	1	
					Job Reference (optional)

Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:17 2023 Page 2 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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.

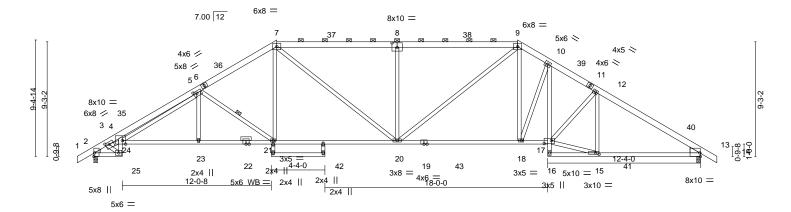


July 20,2023



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092869 22020378-01 PIGGYBACK BASE H1A Job Reference (optional) Carter Components (Lexington), Lexington, NC - 27295, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:15 2023 Page 1 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 24-6-0 9-8-12



SEE DWG T31092866 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT16-17

Structural wood sheathing directly applied, except

5-21

2-0-0 oc purlins (3-4-15 max.): 7-9.

Rigid ceiling directly applied.

1 Row at midpt

1	2-3-8	8-5-9	14-4-0	14-9-4	18-8-0	24-6-0	34-2-12	36-8-0	40-7-15	49-0-0	1
Г	2-3-8	6-2-1	5-10-7	01514	1-10-12 ¹	5-10-0	9-8-12	2-5-4	3-11-15	8-4-1	
				2-0-	0						
te Offsets (X,Y)	[2:Ed	ge,0-0-10], [3:0-3-8	8,0-2-4], [4:0-3-	-4,Edge],	[5:0-3-4,0	-2-0], [8:0-5-0,0-	-4-8], [13:Edge,0-3-8], [15:0-	3-8,0-1-8],	[17:0-7-0,0-	-3-0]	

16-9-4

	0010 (71,17		-,==gej, [e.e e .,e = ej, [10 0 0;0 : 0j; [:0:2 ago;0 0 0j; [:0:0 0 0;0 : 0j; [:::0 1	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.42 20-21 >999 240	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.75 20-21 >784 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0.38 13 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	, ,	Weight: 362 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SP No 2 *Except*

1-6.11-14: 2x6 SP 2400F 2.0E **BOT CHORD** 2x4 SP No.1 *Except*

2-25: 2x4 SP No.2, 21-26,26-27,27-28,10-16: 2x4 SP No.3

19-22: 2x4 SP 2400F 2.0E

2x4 SP No.3 *Except* **WEBS** 7-20,9-20,15-17,3-24: 2x4 SP No.2

OTHERS 2x4 SP No.2

WEDGE

Plate

Left: 2x4 SP No.3, Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8, 13=0-3-8 Max Horz 2=-158(LC 10)

Max Uplift 2=-48(LC 12), 13=-48(LC 12)

Max Grav 2=2297(LC 17), 13=2321(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2731/12, 3-4=-5736/15, 4-5=-6181/54, 5-7=-3530/93, 7-8=-3538/113,

8-9=-3538/113, 9-10=-3402/97, 10-12=-3681/96, 12-13=-3585/59

2-25=0/1950, 24-25=0/1464, 4-24=0/541, 10-17=-53/530, 13-15=0/2959, 23-24=0/3850,

21-23=0/3853, 20-21=0/3036, 18-20=0/2966, 17-18=0/3099 WEBS

3-25=-1912/0, 5-23=0/264, 5-21=-973/67, 8-20=-670/135, 7-20=-6/888, 9-20=-7/854,

9-18=0/826, 10-18=-438/58, 15-17=0/2817, 12-17=0/343, 12-15=-556/64, 3-24=0/4142,

5-24=-5/1962, 7-21=0/895

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-9-4, Exterior(2R) 14-9-4 to 19-0-3, Interior(1) 19-0-3 to 34-2-12, Exterior(2R) 34-2-12 to 38-5-11, Interior(1) 38-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Edenton, NC 27932

July 20,2023

SEAL

Scale = 1:93.1

MANING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ABSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
					T31092869
22020378-01	H1A	PIGGYBACK BASE	1	1	
					Job Reference (optional)

Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:15 2023 Page 2 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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.



July 20,2023



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092870 22020378-01 H1 PIGGYBACK BASE Job Reference (optional)

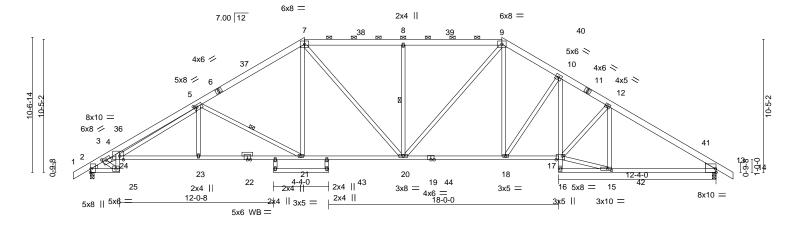
Carter Components (Lexington),

Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:13 2023 Page 1 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:90.2



SEE DWG T31092866 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT16-17 36-8-0 40-7-15

Structural wood sheathing directly applied, except

5-21. 8-20

2-0-0 oc purlins (4-0-3 max.): 7-9.

Rigid ceiling directly applied.

1 Row at midpt

	2-3	3-8 6-2-1	5-10-7	2-5-4 1-10-12	5-10-0	7-8	3-12	4-5-4	3-11-15	8-4-1	
Plate Offs	sets (X,Y)	[2:Edge,0-0-10], [3:0-3-8	,0-2-4], [4:0-3	-8,Edge], [5:0-2-8	,0-2-0], [13:Edge,	0-3-8], [15:0	-3-8,0-1-8], [[17:0-5-12,Ed	ge]		
LOADING	(psf)	SPACING-	2-0-0	CSI.		EFL.	in (loc)	l/defl L	'd	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.5	64 V	ert(LL) -0).33 20-21	>999 24	0	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.8	88 V	ert(CT) -0).59 20-21	>999 18	0		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.9)4 H	lorz(CT) ().39 13	n/a n/	a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-AS	;					Weight: 371 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

24-6-0

LUMBER-

TOP CHORD 2x6 SP No 2 *Except*

2-3-8

1-6.11-14: 2x6 SP 2400F 2.0E

BOT CHORD 2x4 SP No.1 *Except*

2-25: 2x4 SP No.2, 26-27,27-28,28-29,10-16: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except*

7-20,9-20,15-17,3-24: 2x4 SP No.2

OTHERS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8 13=0-3-8

> Max Horz 2=178(LC 11) Max Uplift 2=-48(LC 12), 13=-48(LC 12)

Max Grav 2=2290(LC 17), 13=2314(LC 18)

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

TOP CHORD 2-3=-2721/13, 3-4=-5716/4, 4-5=-6113/40, 5-7=-3302/102, 7-8=-3042/125,

8-9=-3042/125, 9-10=-3206/115, 10-12=-3679/97, 12-13=-3569/59 **BOT CHORD**

2-25=0/1957, 24-25=0/1467, 4-24=0/577, 10-17=-10/670, 13-15=0/2944, 23-24=0/3893, 21-23=0/3896, 20-21=0/2823, 18-20=0/2743, 17-18=0/3112

14-4-0

16-9-4 18-8-0

3-25=-1914/0, 5-23=0/335, 5-21=-1194/83, 8-20=-535/101, 7-20=-11/627, 9-20=-10/612,

9-18=0/904, 10-18=-738/61, 15-17=0/2886, 12-17=0/341, 12-15=-567/60, 3-24=0/4131,

5-24=0/1868, 7-21=0/881

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-4, Exterior(2R) 16-9-4 to 21-0-3, Interior(1) 21-0-3 to 32-2-12, Exterior(2R) 32-2-12 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 Corshectrock pagepelied directly to the bottom chord.

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



July 20,2023



Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
					T31092870
22020378-01	H1	PIGGYBACK BASE	1	1	
					lob Peference (optional)

Lexington, NC - 27295,

| Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:13 2023 Page 2 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

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



July 20,2023



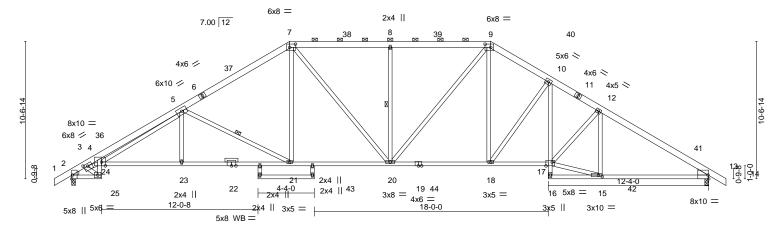
Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092871 22020378-01 T1D PIGGYBACK BASE 3 Job Reference (optional) Lexington, NC - 27295,

Carter Components (Lexington),

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:41 2023 Page 1 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:88.6



SEE DWG T31092866 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT16-17

40-7-15

Structural wood sheathing directly applied, except

5-21. 8-20

20

2-0-0 oc purlins (4-0-11 max.): 7-9.

Rigid ceiling directly applied.

1 Row at midpt

36-8-0

	2-3-8	6-2-1	5-10-7	2-5-3 1-10-13	5-10-0	1	7-8-13	4-5-3	3-11-15	8-4-1	
Plate Off	sets (X,Y)	[2:Edge,0-0-10], [3:0-3-	12,0-2-4], [4:0-	3-8,Edge], [7:0	-5-4,0-3-0], [9:0-5-	-4,0-3-0], [1	3:Edge,0-3-8],	[15:0-3-8,0-	1-8], [17:0-5-1	2,Edge]	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.32 20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.56 21-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.39 13	n/a	n/a		
BCDL	10.0	Code IRC2018/	TPI2014	Matrix	-AS					Weight: 372 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

24-6-0

LUMBER-TOP CHORD

2x6 SP No 2 *Except*

1-6.11-14: 2x6 SP 2400F 2.0E

BOT CHORD 2x4 SP No.1 *Except*

2-3-8

2-25: 2x4 SP No.2, 26-27,27-28,28-29,10-16: 2x4 SP No.3

14-4-0

16-9-3 18-8-0

WEBS 2x4 SP No.3 *Except*

7-20,9-20,15-17,3-24: 2x4 SP No.2

OTHERS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8, 13=0-3-8

> Max Horz 2=-180(LC 10) Max Uplift 2=-48(LC 12), 13=-48(LC 12)

Max Grav 2=2288(LC 17), 13=2312(LC 18)

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

2-3=-2719/13, 3-4=-5707/3, 4-5=-6094/40, 5-7=-3255/103, 7-8=-2989/126, 8-9=-2989/126, 9-10=-3169/116, 10-12=-3677/96, 12-13=-3565/59

BOT CHORD

2-25=0/1957, 24-25=0/1466, 4-24=0/586, 10-17=-6/683, 13-15=0/2941, 23-24=0/3899, 21-23=0/3902, 20-21=0/2795, 18-20=0/2713, 17-18=0/3110

3-25=-1913/0, 5-23=0/345, 5-21=-1256/84, 8-20=-511/100, 7-20=-16/595, 9-20=-14/583,

9-18=0/940, 10-18=-806/60, 15-17=0/2894, 12-17=0/342, 12-15=-569/59, 3-24=0/4123,

5-24=0/1844, 7-21=0/894

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 Corshectrock pagepelied directly to the bottom chord.

July 20,2023

Edenton, NC 27932

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
22020378-01	T1D	PIGGYBACK BASE	3	1	T31092871

Lexington, NC - 27295,

| Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:42 2023 Page 2 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

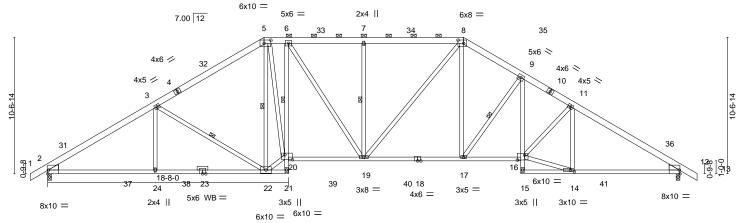
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





| Truss | Trus

Scale = 1:89.3



SEE DWG T31092866 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 15-16

Structural wood sheathing directly applied, except

6-20

3-22, 5-22, 7-19, 9-17

2-0-0 oc purlins (4-0-8 max.): 5-8.

1 Row at midpt

1 Row at midpt

Rigid ceiling directly applied. Except:

		8-4-0	16-9-3	₁ 18-8-0 ₁ 24-6	-0 3	2-2-13	36-8-0	40-8-0	49-0-0	
		8-4-0	8-5-4	1-10-13 5-10	-0	-8-13	4-5-3	4-0-0	8-4-0	1
Plate Offsets	(X,Y)	[2:Edge,0-3-8], [5:0-6	6-4,0-3-0], [8:0-5-4,	0-3-0], [12:Edge,0-3-8]	, [14:0-3-8,0-1-8],	16:0-6-12,0-4-8], [20:0-7-0),0-4-8]		
LOADING (p	osf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	0.0	Plate Grip DO	L 1.15	TC 0.54	Vert(LL)	-0.31 17-19	>999	240	MT20	244/190
TCDL 1	0.0	Lumber DOL	1.15	BC 0.98	Vert(CT)	-0.55 17-19	>999	180		
BCLL	0.0 *	Rep Stress Inc	cr YES	WB 0.72	Horz(CT)	0.27 12	n/a	n/a		
BCDL 1	0.0	Code IRC201	8/TPI2014	Matrix-AS					Weight: 381 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SP No.2

BOT CHORD 2x4 SP No.1 *Except*

6-21,9-15: 2x4 SP No.3, 18-20: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

20-22,6-19,8-19,14-16: 2x4 SP No.2

OTHERS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8, 12=0-3-8

Max Horz 2=180(LC 11)

Max Uplift 2=-48(LC 12), 12=-48(LC 12) Max Grav 2=2334(LC 17), 12=2319(LC 18)

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

TOP CHORD 2-3=-3646/61, 3-5=-2955/120, 5-6=-2797/125, 6-7=-3005/126, 7-8=-3005/126,

8-9=-3176/115, 9-11=-3793/93, 11-12=-3579/60

BOT CHORD 2-24=0/3153, 22-24=0/3153, 6-20=-457/49, 19-20=0/2878, 17-19=0/2728, 16-17=0/3201,

9-16=-1/838, 12-14=0/2954

WEBS 3-24=0/391, 3-22=-706/89, 5-22=-829/0, 20-22=0/2932, 5-20=0/1750, 6-19=-8/514,

7-19=-483/94, 8-19=-13/584, 8-17=0/941, 9-17=-932/55, 14-16=0/2960, 11-16=0/440, 11-14=-679/56

11 14= 07 3/3

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

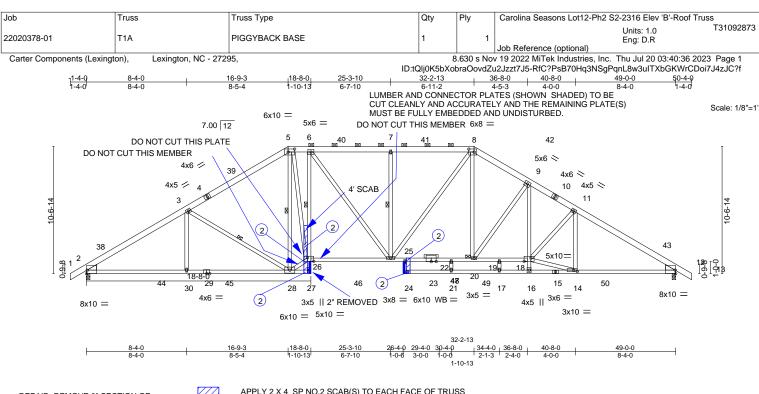
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601







REPAIR: REMOVE 2" SECTION OF TRUSS SHOWN SHADED



APPLY 2 X 4 SP NO.2 SCAB(S) TO EACH FACE OF TRUSS ATTACH WITH (2) (0.131" X 3") NAILS INTO EACH OVERLAPPING MEMBER EACH FACE.

Plate Offsets	ts (X,Y)	[2:Edge,0-3-8], [5:0-6-8,0-3-6	:Edge,0-3-8], [5:0-6-8,0-3-0], [8:0-5-4,0-3-0], [12:Edge,0-3-8], [14:0-3-8,0-1-8], [18:0-6-12,0-3-4], [23:0-4-15,0-0-3], [26:0-6-4,0-3-8]									
	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.57	DEFL. Vert(LL)	in -0.63	(loc) 24	l/defl >938	L/d 240	PLATES MT20	GRIP 244/190
	10.0	Lumber DOL Rep Stress Incr	1.15 1.15 YES	BC WB	0.85 0.92	Vert(CT) Horz(CT)	-1.15 0.25	24 12	>513 n/a	180 n/a	WITZO	244/100
	10.0	Code IRC2018/TPI2		Matrix							Weight: 400 lb	FT = 20%

BOT CHORD

WEBS

JOINTS

LUMBER-BRACING-TOP CHORD 2x6 SP No.2 TOP CHORD

BOT CHORD 2x4 SP 2400F 2.0E *Except*

6-27,9-16: 2x4 SP No.3, 27-29: 2x4 SP No.1, 15-24: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

26-28,6-25,8-25,14-18: 2x4 SP No.2

OTHERS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS. 2=0-3-8, 12=0-3-8 Max Horz 2=180(LC 11)

Max Uplift 2=-29(LC 12), 12=-22(LC 12) Max Grav 2=2442(LC 17), 12=2495(LC 18)

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

TOP CHORD 2-3=-3843/26, 3-5=-3161/84, 5-6=-3018/90, 6-7=-3300/72, 7-8=-3300/72, 8-9=-3566/53,

9-11=-4046/44, 11-12=-3898/0

BOT CHORD $2 - 30 = 0/3321,\ 28 - 30 = 0/3321,\ 6 - 26 = -525/40,\ 25 - 26 = 0/3100,\ 22 - 25 = 0/3055,\ 20 - 22 = 0/$

19-20=0/3429, 18-19=0/3429, 9-18=-24/635, 14-16=0/316, 12-14=0/3226 3-30=0/386, 3-28=-695/91, 5-28=-932/0, 26-28=0/3120, 5-26=0/1982, 6-25=0/610,

WEBS 7-25=-466/91, 8-25=-12/595, 14-18=0/3013, 11-18=0/400, 11-14=-581/52, 8-20=0/1165,

9-20=-774/77, 21-22=0/361

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

PROFINALING ARRIFORLY HOLD AND THE HOLD AND THE AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

Confliction valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information
**available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied, except

6-26

3-28, 5-28, 7-25

2-0-0 oc purlins (3-9-12 max.): 5-8.

1 Row at midpt

1 Row at midpt

1 Brace at Jt(s): 20

10-0-0 oc bracing: 22-25

Rigid ceiling directly applied. Except:

July 20,2023



Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
					T31092873
22020378-01	T1A	PIGGYBACK BASE	1	1	
					Job Reference (optional)

Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:36 2023 Page 2 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

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

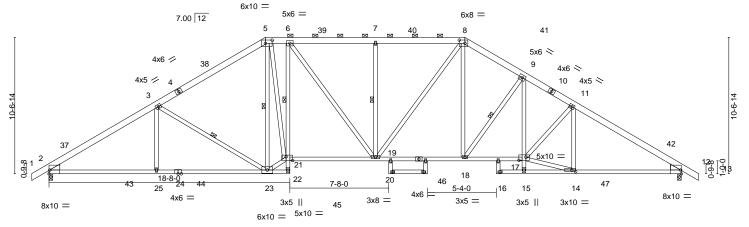


July 20,2023



ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 40-8-0 <u>25-3-1</u>0 . 32-2-13 36-8-0 49-0-0 1-10-13 8-5-4 6-7-10 4-5-3 4-0-0

Scale = 1:89.3



SEE DWG T31092873 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 19-20 AND JNT 21-22.

BRACING-

TOP CHORD

BOT CHORD

WEBS

40-8-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-11-15 max.): 5-8.

1 Row at midpt

1 Row at midpt

10-0-0 oc bracing: 15-17

Rigid ceiling directly applied. Except:

40<u>-</u>0-0

3-23, 5-23, 7-20, 9-18

	1	0-4-0	10-9-3	110-0-01 23-	3-10 2p-4-0 23-4	-0 32-2-13 34-0-0	30-0-0	49-0-0	
		8-4-0	8-5-4	1-10-13 6-7	7-10 1-0-6 3-0-	0 2-10-13 2-5-3	2-0-0 4-0-0	8-4-0	
Plate Offse	ets (X,Y)	[2:Edge,0-3-8], [5:0-6-	-4,0-3-0], [8:0-5-4	,0-3-0], [12:Edge,0-3-8], [14:0-3-8,0-1-8], [1	7:0-6-8,0-3-0], [21:0-6	6-0,0-3-8]		
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/de	fl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.30 20-21 >999	9 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.54 20-21 >999	9 180		
BCLL	0.0 *	Rep Stress Inc	r YES	WB 0.76	Horz(CT)	0.27 12 n/s	a n/a		
BCDL	10.0	Code IRC2018	3/TPI2014	Matrix-AS				Weight: 391 lb	FT = 20%

25-3-10

LUMBER-TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.1 *Except*

8-4-0

6-22,9-15,26-28: 2x4 SP No.3, 17-19: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

21-23,6-20,8-20,14-17: 2x4 SP No.2

WEDGE Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS.

(size) 2=0-3-8, 12=0-3-8 Max Horz 2=-180(LC 10)

Max Uplift 2=-42(LC 12), 12=-31(LC 12) Max Grav 2=2353(LC 17), 12=2366(LC 18)

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

TOP CHORD 2-3=-3679/50, 3-5=-2990/108, 5-6=-2844/114, 6-7=-3047/109, 7-8=-3047/109,

8-9=-3247/93, 9-11=-3811/57, 11-12=-3662/30

BOT CHORD 2-25=0/3181, 23-25=0/3181, 6-21=-495/56, 20-21=0/2926, 18-20=0/2778, 17-18=0/3226,

16-0-3

18-8-0

9-17=0/779. 12-14=0/3025

WEBS 3-25=0/390, 3-23=-704/90, 5-23=-864/0, 21-23=0/3005, 5-21=0/1839, 6-20=-4/476,

7-20=-467/91, 8-20=-16/600, 14-17=0/3016, 11-17=0/389, 11-14=-602/44, 8-18=0/972,

9-18=-894/36

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



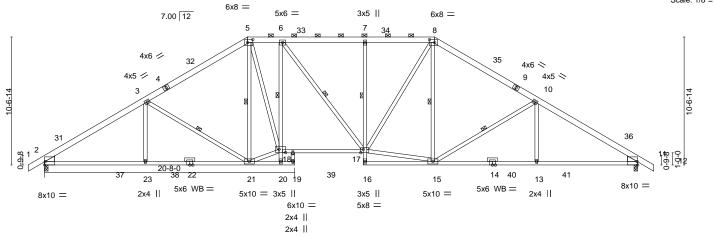


Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092875 22020378-01 T1B PIGGYBACK BASE Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:38 2023 Page 1

Lexington, NC - 27295, Carter Components (Lexington),

ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 19-8-0 26-4-0 32-2-13 40-8-0 49-0-0 8-4-0 8-5-3 2-10-13 6-8-0 5-10-13 8-5-3

Scale: 1/8"=1



SEE DWG T31092873 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 16-17 AND JNT 18-19.

L	8-4-0	16-9-3	19-8-0 20-8-0	26-4-0	32-2-13	40-8-0	49-0-0	
Г	8-4-0	8-5-3	2-10-13 1-0-0	5-8-0	5-10-13	8-5-3	8-4-0	1
Plate Offsets (X,Y)	[2:Edge,0-3-8], [5:0-5-	4,0-3-0], [8:0-5-4,	0-3-0], [11:Edge,0-3-8], [17:0-2-8,0-3-4], [1	8:0-6-8,0-3-4]			
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.31 17-18	>999 240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.56 17-18	>999 180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.24 11	n/a n/a		
BCDL 10.0	Code IRC2018	/TPI2014	Matrix-AS				Weight: 376 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.1 *Except*

6-20,7-16: 2x4 SP No.3 **WEBS** 2x4 SP No.3 *Except*

18-21,6-17,15-17,8-17: 2x4 SP No.2

OTHERS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8. 11=0-3-8

Max Horz 2=180(LC 11)

Max Uplift 2=-39(LC 12), 11=-42(LC 12) Max Grav 2=2353(LC 17), 11=2335(LC 18)

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

TOP CHORD 2-3=-3684/46, 3-5=-2983/105, 5-6=-2935/106, 6-7=-2982/112, 7-8=-2971/113,

8-10=-2954/109, 10-11=-3653/51 **BOT CHORD** 2-23=0/3185, 21-23=0/3185, 6-18=-481/75, 17-18=0/3016, 7-17=-408/77, 13-15=0/3024,

11-13=0/3024 **WEBS**

3-23=0/397, 3-21=-720/90, 5-21=-445/0, 18-21=0/2850, 5-18=0/1559, 6-17=-33/271, 15-17=0/2465, 8-17=0/1068, 8-15=-28/255, 10-15=-726/91, 10-13=0/396

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-3, Exterior(2R) 16-9-3 to 21-0-2, Interior(1) 21-0-2 to 32-2-13, Exterior(2R) 32-2-13 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



3-21, 5-21, 6-17, 8-15, 10-15

July 20,2023

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-11-13 max.): 5-8.

Rigid ceiling directly applied. Except:

1 Row at midpt

1 Row at midpt

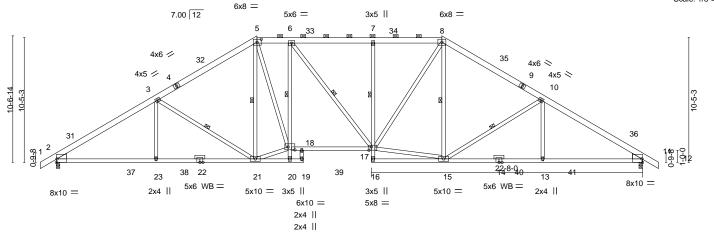
10-0-0 oc bracing: 18-20

Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092876 22020378-01 H1S HIP Job Reference (optional)

Carter Components (Lexington), Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:22 2023 Page 1 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





SEE DWG T31092873 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 16-17 AND JNT 18-19.

BRACING-

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-11-7 max.): 5-8.

1 Row at midpt

1 Row at midpt

10-0-0 oc bracing: 18-20

Rigid ceiling directly applied. Except:

		8-4-0	16-9-4	19-8-0 20-8-0	26-4-0	32-2-12	40-8-0	49-0-0	
		8-4-0	8-5-3	2-10-12 1-0-0	5-8-0	5-10-12	8-5-4	8-4-0	ı
Plate Off	sets (X,Y)	[2:Edge,0-3-8], [5:0-4-4,	0-3-0], [11:Edge	9,0-3-8], [17:0-2-8,0-3-4],	[18:0-6-12,0-3-0	0]			
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.31 17-18	>999 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.56 17-18	3 >999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT) 0.23 1 ⁻	1 n/a n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS				Weight: 375 lb	FT = 20%

LUMBER-TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.1 *Except*

6-20,7-16: 2x4 SP No.3 **WEBS** 2x4 SP No.3 *Except*

18-21,6-17,15-17,8-17: 2x4 SP No.2

OTHERS 2x4 SP No.3 WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8. 11=0-3-8

Max Horz 2=-178(LC 10)

Max Uplift 2=-39(LC 12), 11=-42(LC 12) Max Grav 2=2352(LC 17), 11=2334(LC 18)

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

TOP CHORD 2-3=-3677/46, 3-5=-3009/104, 5-6=-2978/105, 6-7=-3026/111, 7-8=-3016/112,

8-10=-2981/109, 10-11=-3645/51 2-23=0/3177, 21-23=0/3177, 6-18=-514/72, 17-18=0/3058, 7-17=-424/78, 13-15=0/3017,

BOT CHORD 11-13=0/3017 **WEBS**

3-23=0/390, 3-21=-675/89, 5-21=-405/0, 18-21=0/2851, 5-18=0/1535, 6-17=-33/274, 15-17=0/2473, 8-17=0/1085, 8-15=-31/251, 10-15=-678/90, 10-13=0/387

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: \ ASCE \ 7-16; \ \ Vult=120mph \ (3-second \ gust) \ \ Vasd=95mph; \ \ TCDL=6.0psf; \ BCDL=6.0psf; \ \ b=25ft; \ B=45ft; \ L=24ft; \ eave=6ft; \ Cat.$ II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 16-9-4, Exterior(2R) 16-9-4 to 21-0-3, Interior(1) 21-0-3 to 32-2-12, Exterior(2R) 32-2-12 to 36-5-11, Interior(1) 36-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



3-21, 5-21, 6-17, 8-15, 10-15

July 20,2023



Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092877 Units: 1.0 HIP 22020378-01 H1SA Eng: D.R Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:24 2023 Page 1 Carter Components (Lexington), Lexington, NC - 27295. ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-4-0 3-11-15 1-4-0 3-11-15 LUMBER AND CONNECTOR PLATES (SHOWN SHADED) TO BE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) Scale = 1:91.0 MUST BE FULLY EMBEDDED AND UNDISTURBED. DO NOT CUT THIS PLATE DO NOT CUT THIS PLATE 5x6 = 6x10 = 30" X 30' 7.00 12 3x5 II 4x6 = 6x8 = DO NOT CUT THIS MEMBER 8 10 9 4x5 / 4x6 🖊 4x6 < DO NOT CUT THIS MEMBER ³⁴₁₁ 4x5 ≈ 12 (2 9-3-3 2x4 \ (2) 31 Φ 20<u>-</u>8-0 38 16 40 (2) 48" (H) X 36" (W) 15 2" SECTION REMOVED 4x5 = 4x6 = 3x6 = 4x8 || 5x8 = 2x4 || 4x5 | 4x8 = 4x5 =3x5 = $_{20\text{-8-0}}^{3\text{X5}} \stackrel{=}{=}_{20\text{-8-0}}^{5\text{X8}} \stackrel{=}{=}_{20\text{-8-0}}^{5\text{X8}}$ 40-7-15 6-5-3 26-4-0 5-8-0 49-0-0 8-4-1 ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1)
TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE:
2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C.
NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE REPAIR: REMOVE 2" SECTION OF TRUSS SHOWN SHADED INSTALL 2 X 6 SP NO.2 CUT TO FIT TIGHT. FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE. APPLY 2 X 4 X 4-0-0 SP NO.2 SCAB(S) TO EACH FACE OF TRUSS ATTACH WITH (2) (0.131" X 3") NAILS INTO EACH OVERLAPPING MEMBER EACH FACE.

Plate Offsets (X,Y)-	[9:0-2-4,0-2-0], [13:Edge,0-0-10], [19:0-5	-8,0-2-8], [20:0-2-12,0-2-8]		
LOADING (psf)	SPACING- 2-0-0	CSI. TC 0.34	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15		Vert(LL) -0.11 17-18 >999 240	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.23 17-18 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.81	Horz(CT) 0.03 13 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 383 lb FT = 20%

TOP CHORD

BOT CHORD

WEBS

Structural wood sheathing directly applied, except

7-20

10-19, 6-20, 8-20

2-0-0 oc purlins (6-0-0 max.): 6-10.

1 Row at midpt

1 Row at midpt

Rigid ceiling directly applied. Except:

LUMBER-BRACING-

2x6 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 *Except*

2-23,21-23: 2x6 SP No.2, 7-21,8-18: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except*

10-19: 2x4 SP No.2

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 21=0-3-8 Max Horz 2=159(LC 11)

Max Uplift 13=-68(LC 12)

Max Grav 2=904(LC 17), 13=1193(LC 18), 21=2847(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. D 2-3=-1289/0, 3-5=-1161/0, 5-6=-287/10, 6-7=0/707, 7-8=0/706, 8-10=-278/176,

TOP CHORD 10-12=-979/151, 12-13=-1528/99

2-24=0/1158, 22-24=0/582, 20-21=-2824/0, 7-20=-363/70, 19-20=-0/278, 8-19=0/849,

15-17=0/1223, 13-15=0/1223 WEBS

5-24=0/793, 5-22=-657/0, 17-19=0/637, 10-19=-707/0, 10-17=0/597, 12-17=-653/74, 12-15=0/311, 6-22=0/1021, 20-22=0/360, 6-20=-1444/0, 8-20=-1516/0

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-9-4, Exterior(2R) 14-9-4 to 19-0-3, Interior(1) 19-0-3 to 34-2-12, Exterior(2R) 34-2-12 to 38-5-11, Interior(1) 38-5-11 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and

oferenced standard ANSI/TPI 1 ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19. Design use design requires that ever and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

10) Design use design requires that exhibition in a first design structured by the property of the property of the property of the property of the property design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
					T31092877
22020378-01	H1SA	HIP	1	1	
22020378-01	H1SA	HIP	1	1	.loh Reference (ontional)

Lexington, NC - 27295,

| Job Reference (optional) 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:24 2023 Page 2 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

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



July 20,2023



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092878 22020378-01 H1SB **ROOF SPECIAL** Job Reference (optional)

Carter Components (Lexington),

1-4-0 3-11-15

Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:26 2023 Page 1 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied, except

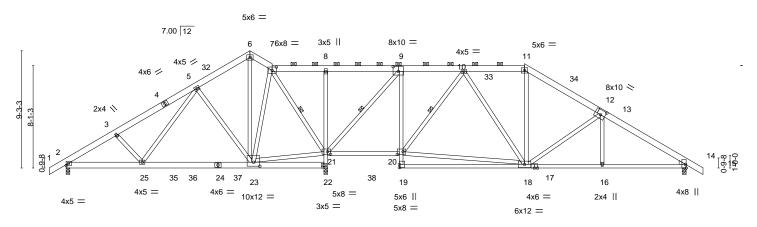
10-20, 7-21, 9-21

2-0-0 oc purlins (6-0-0 max.): 7-11.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:91.0



SEE DWG T31092877 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 19-20 AND JNT 21-22

			20	0-8-0			
6-0-2	14-7-14	₁ 16-3-6 ₁	19-8-0 2p-6	i-4 26-4-0	36-2-12	1 42-4-6	49-0-0
6-0-2	8-7-12	1-7-8	3-4-10 0 ¹ 10	1-4 5-8-0	9-10-12	6-1-10	6-7-10
			0-	1-12			

Plate Off	sets (X,Y)	[7:0-4-0,0-3-4], [9:0-5-0,0-4-8], [12:0	-4-8,0-4-8], [14:Edge,0-0-10], [20:0-5-8,0-2-8], [21:0-2-12,0-2-8], [23:0-6-0,0-3-12]	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.22 18-19 >999 240	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.45 18-19 >752 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.74	Horz(CT) 0.04 14 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	, ,	Weight: 394 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No 2 **BOT CHORD**

2x4 SP No.2 *Except*

2-24,22-24: 2x6 SP No.2, 8-22,9-19: 2x4 SP No.3

WEBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 22=0-3-8

Max Horz 2=157(LC 11)

Max Uplift 14=-60(LC 12)

Max Grav 2=920(LC 17), 14=1170(LC 18), 22=2795(LC 17)

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

2-3=-1328/0, 3-5=-1197/0, 5-6=-342/0, 6-7=-283/0, 7-8=0/766, 8-9=0/763,

9-10=-319/150, 10-11=-917/139, 11-13=-1124/127, 13-14=-1562/92 2-25=0/1176, 23-25=0/613, 21-22=-2776/0, 8-21=-348/67, 20-21=0/325, 9-20=0/892,

BOT CHORD 16-18=0/1262, 14-16=0/1262

WEBS 18-20=-7/541, 10-20=-684/21, 10-18=0/377, 13-18=-483/80, 5-25=0/780, 5-23=-674/0,

7-21=-1409/0, 7-23=0/966, 9-21=-1559/0

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2E) 14-6-5 to 16-3-6, Interior(1) 16-3-6 to 36-2-12, Exterior(2R) 36-2-12 to 39-2-12, Interior(1) 39-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10) 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.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092879 22020378-01 H1SC **ROOF SPECIAL** Job Reference (optional)

Carter Components (Lexington),

1-4-0 3-11-15

Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:28 2023 Page 1 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied, except

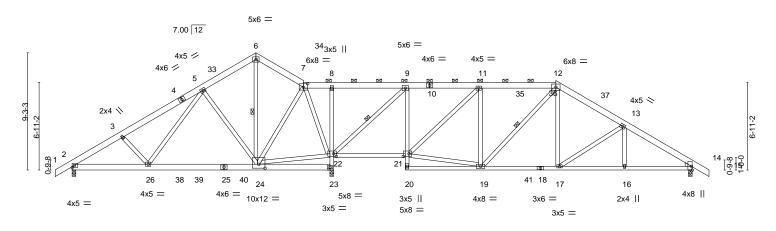
12-19, 6-24, 9-22

2-0-0 oc purlins (6-0-0 max.): 7-12.

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:91.0



SEE DWG T31092877 FOR REPAIR DETAIL TO REMOVE 2" FROM JNT 22-23 AND JNT 20-21.

				20-4-8	3					
	6-0-2	14-7-14	18-3-6	19-8-0	26-4-0	32-3-6	38-2-12	43-8-0	49-0-0	ı
	6-0-2	8-7-12	3-7-8	1-4-10	5-11-8	5-11-6	5-11-6	5-5-4	5-4-1	1
	0-8-8									
ΥV	V\ [7:0-4-0 0-3-4] [14:Edga 0-0-10] [21:0-5-8 0-2-8] [22:0-2-8 0-2-8] [24:0-6-0 0-3-12]									

Plate Oil	Plate Offsets (A, Y) [7:0-4-0,0-3-4], [14:Edge,0-0-10], [21:0-5-8,0-2-8], [22:0-2-8,0-2-8], [24:0-6-0,0-3-12]										
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP						
TCLL	20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.07 17-19 >999 240	MT20 244/190						
TCDL	10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.21 24-26 >999 180							
BCLL	0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.04 14 n/a n/a							
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 384 lb FT = 20%						

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x6 SP No 2

2x4 SP No.2 *Except* **BOT CHORD**

2-25,23-25: 2x6 SP No.2, 8-23,9-20: 2x4 SP No.3

WFBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 23=0-3-8

Max Horz 2=-157(LC 10)

Max Uplift 14=-60(LC 12)

Max Grav 2=927(LC 17), 14=1186(LC 18), 23=2757(LC 17)

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

2-3=-1341/0, 3-5=-1210/0, 5-6=-359/0, 6-7=-298/0, 7-8=0/879, 8-9=0/879, 9-11=-400/147, 11-12=-939/141, 12-13=-1269/121, 13-14=-1633/82

BOT CHORD 2-26=0/1188, 24-26=0/624, 22-23=-2742/0, 8-22=-324/49, 21-22=0/405, 9-21=0/860,

17-19=0/1024, 16-17=-3/1324, 14-16=-3/1324 **WEBS** 5-26=0/779, 19-21=0/879, 11-21=-763/0, 11-19=0/260, 12-17=0/434, 13-17=-351/58,

5-24=-663/0, 7-24=0/1211, 7-22=-1339/0, 9-22=-1677/2

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 38-2-12, Exterior(2R) 38-2-12 to 41-2-12, Interior(1) 41-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10) 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.
- 1) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20,2023

Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092880 H1SD **ROOF SPECIAL** 22020378-01 Units: 1.0 Job Reference (optional) Eng: D.R Carter Components (Lexington), Lexington, NC - 27295, 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:30 2023 Page 1 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 40-2-12 6-11-6 LUMBER AND CONNECTOR PLATES (SHOWN SHADED) TO BE Scale = 1:92.7 CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED. DO NOT CUT THIS PLATE DO NOT CUT THIS MEMBER 6x8 = 4-0-0 7.00 12 DO NOT CUT THIS PLATE 4x5 =

4x5 // 32 5x6 5x6 = 4x6 = 6x8 = 4x6 / 8 10 11 36 2x4 // 34 2x4 \ 12 5-9-2 19 8x10 20-8-0 38 39 16 23 22 18 17 15 4x5 = 4x8 || 4x6 =3x6 =8x10 = 5x6 = 3x5 || 5x8 = 3x5 =4x5 = DO NOT CUT THIS MEMBER $^{\prime}$ 2" REMOVED 5x8 = 2" REMOVED DO NOT CUT THIS MEMBER 20-6-4 20-4-8 0-10-2 40-2-12 49-0-0 20-3-6 5-7-8 8-7-12 REPAIR: REMOVE 2" SECTION OF TRUSS SHOWN SHADED.

INSTALL 2 X 6 SP NO.2 CUT TO FIT TIGHT.

ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1)
TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE:
2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C.
NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE

FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

Structural wood sheathing directly applied, except

8-20, 6-20

2-0-0 oc purlins (6-0-0 max.): 7-11.

Rigid ceiling directly applied.

1 Row at midpt

APPLY 2 X 4 X 4-0-0 SP NO.2 SCAB(S) TO EACH FACE OF TRUSS ATTACH WITH (2) (0.131" X 3") NAILS INTO EACH OVERLAPPING MEMBER EACH FACE.

Plate Offsets (X,Y)		[7:0-2-4,0-3-8], [13:Edge,0-0-10], [19:0-5-8,0-2-8], [20:0-4-8,0-2-8], [23:0-5-0,0-2-4]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.08	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.22	23-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matrix	-AS						Weight: 368 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD

2x4 SP No.2 *Except* 2-24,21-24: 2x6 SP No.2, 8-18,20-21: 2x4 SP No.3

2x4 SP No.3 WEBS WEDGE

Right: 2x4 SP No.3

REACTIONS. 2=0-3-8, 13=0-3-8, 21=0-3-8 (size)

Max Horz 2=-157(LC 10) Max Uplift 13=-37(LC 12)

Max Grav 2=1047(LC 17), 13=1238(LC 18), 21=2527(LC 17)

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

TOP CHORD 2-3=-1532/0, 3-5=-1397/0, 5-6=-570/0, 6-7=0/722, 7-8=0/561, 8-10=-864/40,

10-11=-1407/72, 11-12=-1518/60, 12-13=-1679/63 **BOT CHORD** 2-25=0/1366, 23-25=0/819, 19-20=0/892, 8-19=0/740, 15-17=0/1261, 13-15=0/1374,

20-21=-2198/0

17-19=0/1274, 10-19=-644/41, 11-15=0/330, 5-25=0/756, 5-23=-645/0, 8-20=-1776/33, **WEBS**

20-23=0/552, 6-20=-1624/0, 6-23=0/1002, 20-22=-396/0

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 40-2-12, Exterior(2R) 40-2-12 to 43-2-12, Interior(1) 43-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1

10) 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 chardes on this and included MITER REFERENCE PAGE MILTATA TRY, 519/2020 BEFORE USE

11) Busgin Call Brown State Common State Commo a truss system. Before use, the building designer must verify the approximation to design property incorporate has design find the content building design. Bracing indicated is to prevent buckling of individual truss web and/or chard members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



July 20,2023



Job Truss Truss Type Qty Ply Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss T31092881 Units: 1.0 22020378-01 H1SE ROOF SPECIAL Eng: D.R Job Reference (optional) Lexington, NC - 27295 8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:31 2023 Page 1 Carter Components (Lexington), ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 1-4-0 3-11-15 20-4-8 22-3-6 1-7-14 1-10-14 LUMBER AND CONNECTOR PLATES (SHOWN SHADED) TO BE Scale = 1:91.0 DO NOT CUT THIS PLATE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED. 5x6 =7.00 12 DO NOT CUT THIS PLATE 4-0-0 4x5 / 4-0-0 4x6 / 3 32 5 5x6 <> 3x5 II 4x6 = 4x5 =6x8 = 12 9 9-3-3 2x4 \ 8 33 10 9-6-0 20-8-0 24 36 37 23 38 16 22 18 17 2 15 4x5 = 4x8 || 4x6 = 5x8 = 3x6 =10x12 = 3x5 =4x8 = 2x4 || 4x5 = 3x5 = DO NOT CUT THIS MEMBER 3x5 = 5x8 = 5x8DO NOT CUT THIS MEMBER 20-4-8 21-10-6 23-6-0 2-1-12 1-5-14 1-2-10 14-7-14 0-1-9 3-6-14

REPAIR: REMOVE 2" SECTION OF TRUSS SHOWN SHADED.

INSTALL 2 X 6 SP NO.2 CUT TO FIT TIGHT.

ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

Plate Offsets (X,Y)	[2:0-0-0,0-0-9], [8:0-4-0,0-3-4], [13:Edge,0-0-10], [19:0-2-12,0-2-8], [20:0-2-12,0-2-12], [22:0-6-0,0-3-12]							
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.34 BC 0.65 WB 0.71 Matrix-AS	DEFL. in (loc) l/defl L/d Vert(LL) -0.08 15-17 >999 240 Vert(CT) -0.23 22-24 >999 180 Horz(CT) 0.03 13 n/a n/a	PLATES GRIP MT20 244/190 Weight: 355 lb FT = 20%				

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (6-0-0 max.): 8-12.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-TOP CHORD 2x6 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

2-23,21-23: 2x6 SP No.2, 7-21,9-18: 2x4 SP No.3

WEBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

REACTIONS. All bearings 6-3-0 except (jt=length) 2=0-3-8, 13=0-3-8, 19=0-3-8.

Max Horz 2=-157(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 13, 21, 21, 19

All reactions 250 lb or less at joint(s) 18, 21 except 2=1136(LC 17),

20=1286(LC 17), 13=997(LC 18), 19=1258(LC 26)

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

2-3=-1694/0, 3-5=-1559/0, 5-6=-688/0, 6-7=-718/0, 8-9=0/356, 9-11=0/364, 11-12=-1052/76, 12-13=-1282/54

BOT CHORD 2-24=0/1500, 22-24=0/961, 7-20=-1274/0, 9-19=-407/86, 15-17=0/1019, 13-15=0/1027

17-19=0/937, 11-19=-1488/19, 12-15=0/277, 5-24=0/759, 5-22=-645/0, 7-22=0/968, WEBS

6-22=0/440

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-6-5, Exterior(2R) 14-6-5 to 17-6-5, Interior(1) 17-6-5 to 42-2-12, Exterior(2R) 42-2-12 to 45-2-12, Interior(1) 45-2-12 to 50-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 350.0lb AC unit load placed on the bottom chord, 10-4-0 from left end, supported at two points, 4-0-0 apart.
- 4) This truss is not designed to support a ceiling and is not intended for use where aesthetics are a consideration.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Bearing at joint(s) 20, 21 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 21. This connection is for uplift only and does not consider lateral forces. 10) Two SBP4 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. This connection is for uplift
- only and does not consider lateral forces. 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.

CONTINUED RIVER THE REPORT OF THE READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek@ connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Job	Truss	Truss Type	Qty	Ply	Carolina Seasons Lot12-Ph2 S2-2316 Elev 'B'-Roof Truss
					T31092881
22020378-01	H1SE	ROOF SPECIAL	1	1	
					Job Reference (optional)

Lexington, NC - 27295,

8.630 s Nov 19 2022 MiTek Industries, Inc. Thu Jul 20 03:40:32 2023 Page 2 ID:tQlj0K5bXobraOovdZu2Jzzt7J5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

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





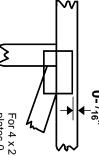
818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

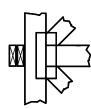
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

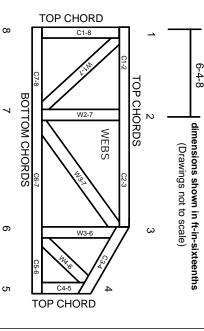
Industry Standards:

National Design Specification for Metal

Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

ი ი

- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

φ.

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.