

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24010085 BCTH-53

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I62935639 thru I62935644

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



January 9,2024

Gilbert, Eric

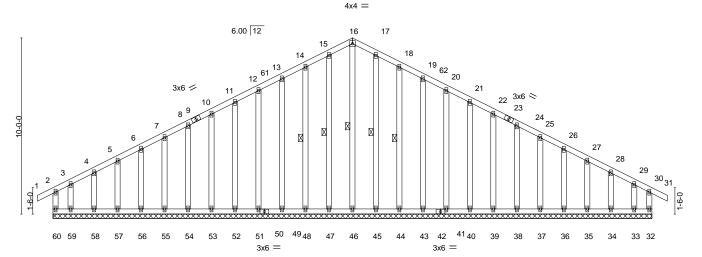
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.

Job Truss Truss Type Qty Ply BCTH-53 162935639 24010085 GABI F 2 A1GE 1 Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 10:13:11 2024 Page 1

The Building Center, Gastonia, NC - 28052.

ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-bhzbKXo4q_33B7TMIVnkHRb?6N3bnY6ru9vb0Wzx6zc 34-0-0 1-4-0 1-4-0

Scale = 1:65.4



LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 244/190 1.15 TC 0.17 Vert(LL) -0.00 31 120 MT20 n/r Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 вс 0.09 Vert(CT) -0.00 31 n/r 120 **TCDL** 10.0 WB Rep Stress Incr YES 0.12 Horz(CT) -0.00 32 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-R Weight: 310 lb FT = 20%**BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

34-0-0

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

OTHERS 2x4 SP No.3

All bearings 34-0-0.

(lb) -Max Horz 60=-175(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39,

38, 37, 36, 35, 34, 33 except 60=-135(LC 14), 59=-136(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 60, 32, 46, 47, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59,

45, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33

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

TOP CHORD 13-14=-110/264, 14-15=-124/294, 15-16=-130/305, 16-17=-130/305, 17-18=-124/294,

18-19=-110/264

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=34ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-10-8 to 2-4-0, Exterior(2N) 2-4-0 to 17-0-0, Corner(3R) 17-0-0 to 20-4-13, Exterior(2N) 20-4-13 to 34-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 48, 49, 51, 52, 53, 54, 55, 56, 57, 58, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34, 33 except (jt=lb) 60=135, 59=136.
- 13) 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.



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

16-46, 15-47, 14-48, 17-45, 18-44

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

except end verticals.

1 Row at midpt

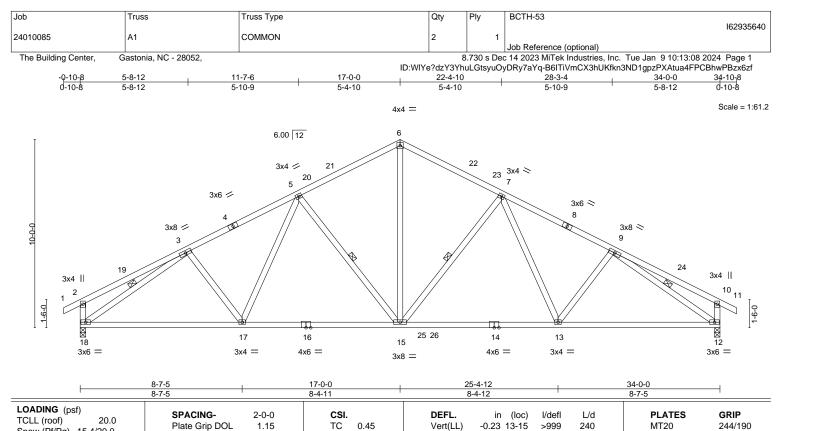
January 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





LUMBER-

Snow (Pf/Pg)

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* **BOT CHORD** 14-16: 2x4 SP No.1

15.4/20.0

10.0

10.0

0.0

WEBS 2x4 SP No.3

REACTIONS. (size) 18=0-3-8, 12=0-3-8 Max Horz 18=-175(LC 14)

Max Uplift 18=-35(LC 16), 12=-35(LC 16)

Max Grav 18=1502(LC 28), 12=1502(LC 29)

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

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

TOP CHORD 3-5=-2041/114, 5-6=-1616/155, 6-7=-1616/155, 7-9=-2041/114, 2-18=-304/99,

10-12=-304/99

17-18=-46/1831, 15-17=-3/1742, 13-15=0/1666, 12-13=-35/1722

BOT CHORD WEBS 6-15=-39/1144, 7-15=-505/95, 7-13=0/291, 5-15=-505/94, 5-17=0/291, 3-18=-1958/43,

9-12=-1958/43

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=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-6-5, Interior(1) 2-6-5 to 17-0-0, Exterior(2R) 17-0-0 to 20-4-13, Interior(1) 20-4-13 to 34-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

1.15

YES

вс

WB

Matrix-S

0.80

0.57

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.36 13-15

except end verticals.

1 Row at midpt

12

0.09

>999

n/a

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

180

n/a

Structural wood sheathing directly applied or 3-10-3 oc purlins,

7-15, 5-15, 3-18, 9-12

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12.
- 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.



Weight: 208 lb

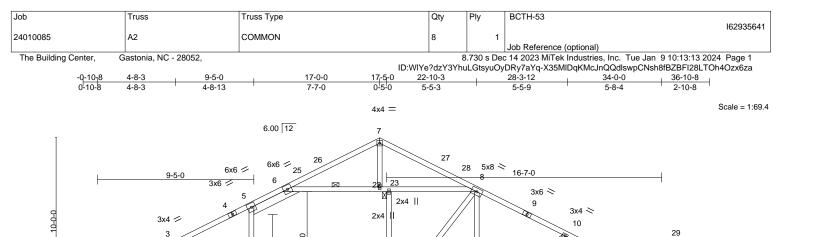
FT = 20%

January 9,2024

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1-6-0		<u> </u>				12 0 8 E
21 2x4	20 19 18 3x10 = 3x6 = 3x8 =	3x4 3x4 3x4	17 3x10 =	16 ₁₅ 3x6 = 3x4 =	14 6x6 =	13 3x4
4-8-3 4-8-3	9-5-0 4-8-13	17-0-0 7-7-0	17 ₋ 5-0	28-3-12 10-10-12	34-0-0 5-8-4	

8-0-0

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 1.00 BC 0.85 WB 0.73	DEFL. in (loc) l/defl L/d Vert(LL) -0.12 18-20 >999 240 Vert(CT) -0.28 18-20 >999 180 Horz(CT) 0.05 13 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	. (1)	Weight: 246 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-TOP CHORD

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

3x6 /

17-18: 2x6 SP No.1 2x4 SP No.3 *Except*

5-18,17-22,6-8: 2x4 SP No.2, 5-6: 2x6 SP No.1

(size) 21=0-3-8, 13=0-3-8

REACTIONS. Max Horz 21=-187(LC 14)

Max Grav 21=1574(LC 2), 13=1665(LC 2)

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

Plate Offsets (X,Y)-- [11:0-2-0,0-1-12], [17:0-2-4,0-1-8], [18:0-2-0,0-1-8], [20:0-3-8,0-1-8]

TOP CHORD 2-3=-2016/0, 3-5=-2061/0, 5-6=-1858/0, 6-7=-903/0, 7-8=-917/0, 8-10=-1954/0,

10-11=-1989/0, 2-21=-1528/0, 11-13=-1611/53

BOT CHORD 18-20=0/1790, 17-18=0/1788, 15-17=0/1687, 14-15=0/1704

WEBS 5-18=0/321, 17-22=-86/513, 6-23=-1330/7, 22-23=-1330/7, 8-22=-1331/7, 7-23=-63/512,

8-17=-233/447, 10-14=-275/40, 11-14=0/1756, 3-20=-369/13, 2-20=0/1752

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=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-6-5, Interior(1) 2-6-5 to 17-0-0, Exterior(2R) 17-0-0 to 20-4-13, Interior(1) 20-4-13 to 36-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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

Continued on page 2



4x5 <

Structural wood sheathing directly applied, except end verticals.

6-22, 8-17

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 13-14.

1 Row at midpt

1 Brace at Jt(s): 22

11

January 9,2024



Job	Truss	Truss Type	Qty	Ply	BCTH-53	
						162935641
24010085	A2	COMMON	8	1		
					Job Reference (optional)	

The Building Center. Gastonia, NC - 28052.

8,730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 10:13:13 2024 Page 2 ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-X35MIDqKMcJnQQdlswpCNsh8fBZBFI28LTOh4Ozx6za

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-51, 2-5=-51, 5-7=-61, 7-8=-61, 8-11=-51, 11-12=-51, 18-21=-20, 17-18=-40, 13-17=-20

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-7=-70, 7-8=-70, 8-11=-60, 11-12=-60, 18-21=-20, 17-18=-40, 13-17=-20

3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-50, 2-5=-50, 5-7=-60, 7-8=-60, 8-11=-50, 11-12=-50, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20

4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-43, 2-5=-43, 5-7=-53, 7-8=-53, 8-11=-43, 11-12=-43, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20

5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-43, 2-5=-43, 5-25=-53, 7-25=-75, 7-8=-37, 8-11=-27, 11-12=-27, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20

6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-27, 2-5=-27, 5-7=-37, 7-28=-75, 8-28=-53, 8-11=-43, 11-12=-43, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 11-12=-20, 18-21=-40, 17-18=-60, 13-17=-40 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=38, 2-24=18, 5-24=13, 5-7=3, 7-27=13, 8-27=3, 8-11=13, 11-12=8, 18-21=-12, 17-18=-32, 13-17=-12

Horz: 1-2=-50, 2-24=-30, 7-24=-25, 7-27=35, 11-27=25, 11-12=20, 2-21=21, 11-13=32

9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-5=13, 5-26=3, 7-26=13, 7-8=3, 8-29=13, 11-29=18, 11-12=38, 18-21=-12, 17-18=-32, 13-17=-12

Horz: 1-2=-20, 2-26=-25, 7-26=-35, 7-29=25, 11-29=30, 11-12=50, 2-21=-32, 11-13=-21

10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Vert: 1-2=-12, 2-5=-32, 5-7=-42, 7-8=-42, 8-11=-32, 11-12=-28, 18-21=-20, 17-18=-40, 13-17=-20

Horz: 1-2=-8, 2-7=12, 7-11=-12, 11-12=-8, 2-21=30, 11-13=23

11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-28, 2-5=-32, 5-7=-42, 7-8=-42, 8-11=-32, 11-12=-12, 18-21=-20, 17-18=-40, 13-17=-20

Horz: 1-2=8, 2-7=12, 7-11=-12, 11-12=8, 2-21=-23, 11-13=-30

12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=12, 2-5=-0, 5-7=-10, 7-8=-5, 8-11=5, 11-12=1, 18-21=-12, 17-18=-32, 13-17=-12

Horz: 1-2=-24, 2-7=-12, 7-11=17, 11-12=13, 2-21=13, 11-13=15

13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=1, 2-5=5, 5-7=-5, 7-8=-10, 8-11=-0, 11-12=12, 18-21=-12, 17-18=-32, 13-17=-12

Horz: 1-2=-13, 2-7=-17, 7-11=12, 11-12=24, 2-21=-15, 11-13=-13

14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-23, 2-5=-27, 5-7=-37, 7-8=-22, 8-11=-12, 11-12=-7, 18-21=-20, 17-18=-40, 13-17=-20 Horz: 1-2=3, 2-7=7, 7-11=8, 11-12=13, 2-21=22, 11-13=6

15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 1-2=-7, 2-5=-12, 5-7=-22, 7-8=-37, 8-11=-27, 11-12=-23, 18-21=-20, 17-18=-40, 13-17=-20

Horz: 1-2=-13, 2-7=-8, 7-11=-7, 11-12=-3, 2-21=-6, 11-13=-22

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=25, 2-5=13, 5-7=3, 7-8=3, 8-11=13, 11-12=25, 18-21=-12, 17-18=-32, 13-17=-12

Horz: 1-2=-37, 2-7=-25, 7-11=25, 11-12=37, 2-21=-19, 11-13=19 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=16, 2-5=4, 5-7=-6, 7-8=-6, 8-11=4, 11-12=16, 18-21=-12, 17-18=-32, 13-17=-12 Horz: 1-2=-28, 2-7=-16, 7-11=16, 11-12=28, 2-21=-19, 11-13=19

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-16, 2-5=-21, 5-7=-31, 7-8=-31, 8-11=-21, 11-12=-16, 18-21=-20, 17-18=-40, 13-17=-20

Horz: 1-2=-4, 2-7=1, 7-11=-1, 11-12=4, 2-21=-10, 11-13=10

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=-16. 2-5=-21. 5-7=-31. 7-8=-31. 8-11=-21. 11-12=-16. 18-21=-20. 17-18=-40. 13-17=-20 Horz: 1-2=-4, 2-7=1, 7-11=-1, 11-12=4, 2-21=-10, 11-13=10

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

Uniform Loads (plf)

Vert: 1-2=-51, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 11-12=-51, 18-21=-20, 17-18=-40, 13-17=-20

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-51, 2-5=-51, 5-25=-61, 7-25=-90, 7-8=-39, 8-11=-29, 11-12=-29, 18-21=-20, 17-18=-40, 13-17=-20

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3





Job	Truss	Truss Type	Qty	Ply	BCTH-53
					162935641
24010085	A2	COMMON	8	1	
					Job Reference (optional)

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-29, 2-5=-29, 5-7=-39, 7-28=-90, 8-28=-61, 8-11=-51, 11-12=-51, 18-21=-20, 17-18=-40, 13-17=-20

23) Dead + Uninhabitable Attic Storage: Lumber Increase=1,25. Plate Increase=1,25 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-30, 8-11=-20, 11-12=-20, 18-21=-20, 17-18=-40, 15-17=-60, 13-15=-20

24) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-45, 2-5=-49, 5-7=-59, 7-8=-47, 8-11=-37, 11-12=-34, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20 Horz: 1-2=2, 2-7=6, 7-11=6, 11-12=10, 2-21=16, 11-13=5

25) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-34, 2-5=-37, 5-7=-47, 7-8=-59, 8-11=-49, 11-12=-45, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20 Horz: 1-2=-10, 2-7=-6, 7-11=-6, 11-12=-2, 2-21=-5, 11-13=-16

26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-44, 5-7=-54, 7-8=-54, 8-11=-44, 11-12=-40, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-21=-8, 11-13=8

27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-44, 5-7=-54, 7-8=-54, 8-11=-44, 11-12=-40, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-21=-8, 11-13=8

28) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-52, 2-5=-56, 5-7=-66, 7-8=-54, 8-11=-44, 11-12=-40, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20 Horz: 1-2=2, 2-7=6, 7-11=6, 11-12=10, 2-21=16, 11-13=5

29) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-44, 5-7=-54, 7-8=-66, 8-11=-56, 11-12=-52, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20 Horz: 1-2=-10, 2-7=-6, 7-11=-6, 11-12=-2, 2-21=-5, 11-13=-16

30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-47, 2-5=-51, 5-7=-61, 7-8=-61, 8-11=-51, 11-12=-47, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-21=-8, 11-13=8

31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-47, 2-5=-51, 5-7=-61, 7-8=-61, 8-11=-51, 11-12=-47, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20 Horz: 1-2=-3, 2-7=1, 7-11=-1, 11-12=3, 2-21=-8, 11-13=8

34) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-7=-70, 7-8=-30, 8-11=-20, 11-12=-20, 18-21=-20, 17-18=-40, 13-17=-20

35) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-70, 8-11=-60, 11-12=-60, 18-21=-20, 17-18=-40, 13-17=-20

36) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15. Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-50, 2-5=-50, 5-7=-60, 7-8=-30, 8-11=-20, 11-12=-20, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20

37) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-7=-30, 7-8=-60, 8-11=-50, 11-12=-50, 18-21=-20, 17-18=-40, 15-17=-50, 13-15=-20



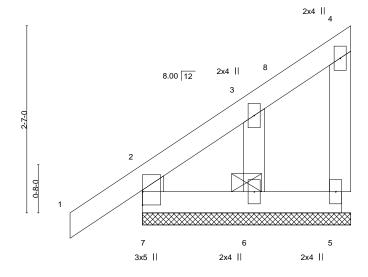
Job Truss Truss Type Qty Ply BCTH-53 162935642 24010085 F1GF **GABLE** 2 1 Job Reference (optional)

The Building Center, Gastonia, NC - 28052.

8,730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 10:13:15 2024 Page 1 ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-USD6AvrbtDZVgkn7_LrgSHmhJ?SDjN9Rpmto9Hzx6zY



Scale: 3/4"=1'



LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.16 BC 0.05 WB 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.00 0.00	(loc) 1 1 5	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20	GRIP 244/190
BCDI 10.0	Code IRC2018/TPI2014	Matrix-R						Weight: 16 lb	FT = 20%

LUMBER-

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

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

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins,

except end verticals. 2-0-0 oc bracing.

REACTIONS. (size) 7=2-10-8, 5=2-10-8, 6=2-10-8

Max Horz 7=73(LC 11)

Max Uplift 7=-25(LC 14), 5=-7(LC 11), 6=-21(LC 11) Max Grav 7=149(LC 2), 5=44(LC 24), 6=96(LC 24)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 2-8-12 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 7) 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 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) 7, 5, 6.
- 10) 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.



January 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply BCTH-53 162935643 24010085 F1 MONOPITCH 2 Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 10:13:14 2024 Page 1 The Building Center, Gastonia, NC - 28052. ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-?GfkzZrz6vRe2aCxQeKRv4DXUb6t_weHa68Fdrzx6zZ -1-0-0 1-0-0 2-10-8 Scale: 3/4"=1' 2x4 || 8.00 12 2-3-8 0-8-0 4 2x4

2-10-8

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 15.4/20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.10 BC 0.06 WB 0.00	DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00	(loc) l/defl 4-5 >999 4-5 >999 4 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2018/TPI2014	Matrix-R				Weight: 15 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3 **WEBS**

REACTIONS. (size) 5=0-3-0, 4=0-1-8 Max Horz 5=73(LC 11)

Max Uplift 5=-31(LC 14), 4=-18(LC 11) Max Grav 5=187(LC 2), 4=96(LC 24)

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

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 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.



Structural wood sheathing directly applied or 2-10-8 oc purlins,

except end verticals.

2-0-0 oc bracing.

January 9,2024

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Job Truss Truss Type Qty Ply BCTH-53 162935644 VALLEY 24010085 V1GF 1 Job Reference (optional) 8.730 s Dec 14 2023 MiTek Industries, Inc. Tue Jan 9 10:13:16 2024 Page 1 The Building Center, Gastonia, NC - 28052. ID:WIYe?dzY3YhuLGtsyuOyDRy7aYq-yemUOFsDeXhMHuMKX2Nv_Vlu_Om2Sq8a1QdMhjzx6zX 1-8-3 1-8-3 Scale = 1:9.8 3x4 = 2 10.00 12 3 0-0-4 0-0-4 2x4 // 2x4 💉 Plate Offsets (X,Y)-- [2:0-2-0,Edge] LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. (loc) I/defI L/d TCLL (roof) 20.0 244/190 Plate Grip DOL 1.15 TC 0.03 Vert(LL) n/a n/a 999 MT20 Snow (Pf/Pg) 15.4/20.0 Lumber DOL вс 0.08 Vert(CT) 999 1.15 n/a n/a **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0

BRACING-

TOP CHORD

BOT CHORD

Matrix-P

LUMBER-

BCDL

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

REACTIONS. (size) 1=3-3-13, 3=3-3-13 Max Horz 1=-19(LC 12)

Max Uplift 1=-1(LC 14), 3=-1(LC 14)

Max Grav 1=102(LC 2), 3=102(LC 2)

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

Code IRC2018/TPI2014

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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.
- * 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) 1, 3.
- 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.



Weight: 10 lb

Structural wood sheathing directly applied or 3-4-6 oc purlins.

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

FT = 20%

January 9,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Symbols

PLATE LOCATION AND ORIENTATION



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



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

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

LATERAL BRACING LOCATION



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

BEARING



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

ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

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

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

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

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MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

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- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- 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.

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- 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- 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.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.