

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 28141 Jonah Blakenship\Mrtyle Beach

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

Pages or sheets covered by this seal: I67205812 thru I67205877

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

North Carolina COA: C-0844



Johnson, Andrew

July 30,2024

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.



12) Attic room checked for L/360 deflection.

July 30,2024

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A MiTek A 818 Soundside Road Edenton, NC 27932



| Plate Offsets (X,Y)- (2-0-6-14,Edge), [5:0-2-0:0-2-8] 4111 35-4 LOADING (ps) TCOL SPACINC- 2-0-0 CSL In (loc) Idea (Idea (I | | L | 4-11-1 | | | 8-4-5 | |
|--|---|---|---|--|---|--|------------------------------------|
| Plate Offseis (XY)- (2.06-14.Edge), [5.0-2.0.0-2.8] LOADING (ps) SPACING- 2-0-0 CSI. DEFL in (loc) Uddit L/d PLATES GRIP TCUL 20.0 Plate Grip DOL 1.15 BC 0.23 VerifL1 -0.03 6.8 -989 360 MT20 244/190 TCUL 20.0 Rep StressIns NO WS 0.21 VerifL1 -0.03 6.8 -989 240 Weight: 43 lb FT = 20% BCDL 10.0 Rep StressIns NO WS 0.21 VerifL1 -0.03 6.8 -989 240 Weight: 43 lb FT = 20% UMBER Code IRC2018/TPL2014 Matrix-MP WindL1 0.01 6.8 -989 240 Weight: 43 lb FT = 20% UMBER Code IRC2018/TPL2014 Matrix-MP WindL1 0.01 6.8 -989 240 Weight: 43 lb FT = 20% UMBER Code IRC2018/TPL2014 Matrix-MP WindL1 0.01 6.8 -989 240 Weight: 43 lb FT = 20% UMBER Code SP No.3 Structural wood shea | | | 4-11-1 | | 1 | 3-5-4 | 1 |
| LOADING [UBS] SPACING 2-0-0 Plate Gip DOL CSI. 1.5 DEFL TC in field Lob PLATES GRIP TCLL 10.0 - Long DOL 1.55 TC 0.23 Vert(CT) 0.03 6.6 9.893 900 MT20 244/190 LUMERT Code IRC2018/TPI2014 Matrix-MP Wind(LL) 0.01 6.6 9.893 240 Weight: 43 ib FT = 20% LUMERT TOP CHORD 24.5 PN N.1 TS 0.21 FT ACONG TS FT acong TS 0.21 FT acong TS 0.21 FT acong TS TS <t< td=""><td>Plate Offsets (X,Y)</td><td>[2:0-6-14,Edge], [5:0-2-0,0-2-8]</td><td></td><td></td><td></td><td></td><td></td></t<> | Plate Offsets (X,Y) | [2:0-6-14,Edge], [5:0-2-0,0-2-8] | | | | | |
| LUMBER- TOP CHORD 2x4 SP No.2 BRACING- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x4 SP No.3 BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. REACTIONS. (size) 2=0-7:0, 5=0-1-8 Max Horz 2=83(LC 4) Max Grav 2=483(LC 1), 5=-26(LC 4) Max Grav 2=483(LC 1), 5=-26(LC 4) Max Grav 2=483(LC 1), 5=-260(LC 1) Reaction 2 FORCES. (b) - Max. Comp./Max. Ten All forces 250 (b) or less except when shown. TOP CHORD 2:3=-716/0 BOT CHORD 2:3=-716/0 2-6=-34/686, 5-6=-34/686 WEES 3-5=-725/36 NOTES- 01 Wind: ASCE 7-16; Vull=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 3) "This truss has been designed for a 10.0 psf bottom chord live load enconcurrent with any other live loads. 4) Bearing a Ling(Is) 5 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearingial connection (by others) of truss to bearing plate capable of withstanding 100 b uplift at joint(s) 2, 5. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 b down and 45 b up at 5-77, on to the town etcol. 9) Hanger(45 October condrace with the | 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 NO Code IRC2018/TPI2014 | CSI. TC 0.23 BC 0.21 WB 0.20 Matrix-MP | DEFL. in Vert(LL) -0.02 Vert(CT) -0.03 Horz(CT) 0.01 Wind(LL) 0.01 | (loc) I/defl L 6-8 >999 36 6-8 >999 24 5 n/a n 6-8 >999 24 | /d PLATES 50 MT20 40 40 Weight: 43 lb | GRIP 244/190 FT = 20% |
| FORCES. (b) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-716/0 BOT CHORD 2-46=-34686, 5-56=-34/686 WEBS 3-5=-725/36 NOTES- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 3) * This truss has been designed for a 10.0 psf bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members. 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5. 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 15 lb up at 2-9.8, 53 lb down and 2.9-9.8, 61 b down at 2-9-9.8, and 24 lb down at 5-7.7, and 24 lb down at 5-7.7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 9) In the LOAD CASE(S) Standard 1) Dead + Root Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-60, 2-5=-20 Concentrated Loads (pl). Vert: 1-4=-60, 2-5=-20 Concentrate Loads (b) | LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x6 SF WEBS 2x4 SF REACTIONS. (siz: Max H Max U Max G | P No.2 P No.1 P No.3 e) 2=0-7-0, 5=0-1-8 lorz 2=83(LC 4) plift 2=-93(LC 4), 5=-25(LC 4) rav 2=463(LC 1), 5=360(LC 1) | · | BRACING- TOP CHORD BOT CHORD | Structural wood shea Rigid ceiling directly | athing directly applied or 6-0- applied or 10-0-0 oc bracing. | 0 oc purlins. |
| NOTES- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 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 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. Bearing at joint(s) 5 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) 5. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5. 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. Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 15 lb up at 2-9-8, and 24 lb down at 5-7-7, and 80 lb down and 48 lb up at 5-7-7 on top chord, and 6 lb down at 2-9-8, and 24 lb down at 5-7-7, and 80 lb down and 48 lb up at 5-7-7 on top chord, and 6 lb down at 2-9-8, and 24 lb down at 5-7-7, and 24 lb down at 5-7-7 on top chord, and 6 lb down at 2-9-8, and 24 lb down at 5-7-7, and 80 lb down and 48 lb up at 5-7-7 on top chord, and 6 lb down at 2-9-8, and 24 lb down at 5-7-7, and 24 lb down at 5-7-7 on top chord, and 6 lb down at 2-9-8, and 24 lb down at 5-7-7, and 24 lb down at 5-7-7 on top chord, and 6 lb down at 2-9-8, and 24 lb down at 5-7-7, and 24 lb down at 5-7-7 on top chord, loads applied to the face of | FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 2-6=- WEBS 3-5=- | Comp./Max. Ten All forces 250 (lb) or 716/0 34/686, 5-6=-34/686 725/36 | less except when shown. | | | | |
| | NOTES- 1) Wind: ASCE 7-16; V II; Exp B; Enclosed; plate grip DOL=1.60 2) This truss has been 3) * This truss has been 4) Bearing at joint(s) 5 capacity of bearing s 5) Provide mechanical 6) Provide mechanical 7) This truss is designer referenced standard 8) Hanger(s) or other of 2-9-8, 53 lb down ar and 6 lb down at 2- design/selection of 9) In the LOAD CASE(LOAD CASE(S) Stan 1) Dead + Roof Live (t Uniform Loads (plf) Vert: 1-4=-f Concentrated Loads | Ault=140mph (3-second gust) Vasd=111 MWFRS (directional); cantilever left and designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on t chord and any other members. considers parallel to grain value using A surface. connection (by others) of truss to bearin do in accordance with the 2018 Internation ANSI/TPI 1. connection device(s) shall be provided so do 15 lb up at 2-9-8, and 80 lb down and 9-8, 6 lb down at 2-9-8, and 24 lb down such connection device(s) is the respons S) section, loads applied to the face of t dard dard alanced): Lumber Increase=1.15, Plate 50, 2-5=-20 5 (lb) | mph; TCDL=6.0psf; BCDL d right exposed ; end vertic re load nonconcurrent with the bottom chord in all area NSI/TPI 1 angle to grain for ag plate at joint(s) 5. ng plate capable of withsta onal Residential Code sec ufficient to support concent d 48 lb up at 5-7-7, and 86 at 5-7-7, and 24 lb down sibility of others. he truss are noted as front Increase=1.15 | =6.0psf; h=20ft; B=45ft; cal left and right exposed any other live loads. as with a clearance great ormula. Building design nding 100 lb uplift at join tions R502.11.1 and R80 trated load(s) 53 lb down 0 lb down and 48 lb up a at 5-7-7 on bottom choin t (F) or back (B). | L=24ft; eave=4ft; Cat. t; Lumber DOL=1.60 ter than 6-0-0 er should verify ht(s) 2, 5. 02.10.2 and h and 15 lb up at t 5-7-7 on top chord, rd. The | Attractor Attractor 45 45 45 | EAL 844 |

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| | L | 4-11-1 | | - | 8-4-5 | | |
|---|--|---|--|---|--|-------------------------------------|------------------------------------|
| | | 4-11-1 | | I | 3-5-4 | | |
| Plate Offsets (X,Y) | [2:0-6-14,Edge], [5:0-2-0,0-2-8] | | | | | | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrNOCodeIRC2018/TPI2014 | CSI. TC 0.23 BC 0.21 WB 0.20 Matrix-MP | DEFL. in Vert(LL) -0.02 Vert(CT) -0.03 Horz(CT) 0.01 Wind(LL) 0.01 | (loc) l/defl 6-8 >999 6-8 >999 5 n/a 6-8 >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 43 lb | GRIP 244/190 FT = 20% |
| LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x6 SP WEBS 2x4 SP REACTIONS. (size Max H Max U Max G | No.2 No.1 No.3 b) 2=0-7-0, 5=0-1-8 prz 2=83(LC 19) polift 2=-93(LC 4), 5=-25(LC 4) ray 2=463(LC 1). 5=360(LC 1) | | BRACING- TOP CHORD BOT CHORD | Structural wood s Rigid ceiling dired | sheathing directly tty applied or 10- | applied or 6-0-0 0-0 oc bracing. | oc purlins. |
| FORCES. (lb) - Max. TOP CHORD 2-3=- BOT CHORD 2-6=- WEBS 3-5=- | Comp./Max. Ten All forces 250 (lb) or 716/0 34/686, 5-6=-34/686 725/36 | less except when shown. | | | | | |
| NOTES- 1) Wind: ASCE 7-16; V II; Exp B; Enclosed; plate grip DOL=1.60 2) This truss has been 3) * This truss has been 4) Bearing at joint(s) 5 capacity of bearing s 5) Provide mechanical 6) Provide mechanical 7) This truss is designer referenced standard 8) Hanger(s) or other c 2-9-8, 53 lb down at and 6 lb down at 2-6 design/selection of s 9) In the LOAD CASE(S) Stand 1) Dead + Roof Live (bi Uniform Loads (plf) Vert: 1-4=-6 | ult=140mph (3-second gust) Vasd=1110 MWFRS (directional); cantilever left and designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on 1 chord and any other members. considers parallel to grain value using A urface. connection (by others) of truss to bearir d in accordance with the 2018 Internation ANSI/TPI 1. onnection device(s) shall be provided so d 15 lb up at 2-9-9, and 20 lb down and -8, 6 lb down at 2-9-9, and 24 lb down uch connection device(s) is the respons S) section, loads applied to the face of the dard alanced): Lumber Increase=1.15, Plate 0, 2-5=-20 | mph; TCDL=6.0psf; BCDL: d right exposed ; end vertic re load nonconcurrent with the bottom chord in all area NSI/TPI 1 angle to grain for ng plate at joint(s) 5. ng plate at | =6.0psf; h=20ft; B=45ft; cal left and right exposed any other live loads. as with a clearance grea ormula. Building designe nding 100 lb uplift at join tions R502.11.1 and R8(trated load(s) 53 lb dowr 0 lb down and 48 lb up at at 5-7-9 on bottom chor c (F) or back (B). | L=24ft; eave=4ft; (; Lumber DOL=1.6 ter than 6-0-0 er should verify t(s) 2, 5. 12.10.2 and h and 15 lb up at t 5-7-9 on top cho d. The | rd, | SE 458 NOREN | AROLINA SILVALIA AL SA4 |
| Concentrated Loads Vert: 10=-19 | (ID) 9(F=-9, B=-9) 11=-5(F=-2, B=-2) 12=-40 | (F=-20, B=-20) | | | | Ju | uly 30,2024 |

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 BOT CHORD
 2x4 SP No.2
 structural wood sheatining directly applied of 6-0-0 oc bracing.

 BOT CHORD
 2x4 SP No.2
 except end verticals.

 WEBS
 2x4 SP No.3
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

 OTHERS
 2x4 SP No.3
 BOT CHORD
 Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 15-11-8.

(lb) - Max Horz 20=182(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 19, 15, 14, 13.
- 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.



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Max Grav All reactions 250 lb or less at joint(s) 16, 10, 14, 15, 12, 11 except 13=263(LC 8)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) All plates are 1.5x4 MT20 unless otherwise indicated.

5) Gable requires continuous bottom chord bearing.

6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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| | | | <u>1-</u> 1- | | | | |
|--|---|--|---|--|-------------------------------------|--------------------------------|------------------------------------|
| 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 0.10 BC 0.02 WB 0.00 Matrix-MP | DEFL. in Vert(LL) -0.00 Vert(CT) -0.00 Horz(CT) 0.00 Wind(LL) -0.00 | (loc) l/def 7 >999 7 >999 2 n/a 7 >999 | i L/d 360 240 a n/a 240 | PLATES MT20 Weight: 8 lb | GRIP 244/190 FT = 20% |

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=38(LC 8)

Max Uplift 3=-5(LC 8), 2=-58(LC 8) Max Grav 3=35(LC 1), 2=172(LC 1), 4=29(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat.
- II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60
- plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) 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 1-10-15 oc purlins.

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

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| | 3-10-15 3-10-15 | | | | | | | | | | |
|--|---|--|---|---|---|---------------------------------|---------------------------------|------------------------------------|--|--|--|
| 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 0.18 BC 0.15 WB 0.00 Matrix-MP | DEFL. Vert(LL) - Vert(CT) - Horz(CT) Wind(LL) | in (loc -0.01 4-7 -0.02 4-7 0.00 2 0.01 4-7 |) l/defl 7 >999 7 >999 2 n/a 7 >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 14 lb | GRIP 244/190 FT = 20% | | | |

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=57(LC 8)

Max Uplift 3=-25(LC 8), 2=-54(LC 8)

Max Grav 3=94(LC 1), 2=238(LC 1), 4=68(LC 3)

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

NOTES-

1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat.

II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60

plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * 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.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) 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.



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818 Soundside Road Edenton, NC 27932



TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



| | 6-0-0 6-0-0 | | | | | | | | | | | | |
|------------|----------------|-----------------|--------|--------|------|----------|-------|-------|--------|-----|---------------|----------|--|
| LOADING (p | sf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL 20 | 0.0 | Plate Grip DOL | 1.15 | TC | 0.46 | Vert(LL) | -0.05 | 4-7 | >999 | 360 | MT20 | 244/190 | |
| TCDL 10 | 0.0 | Lumber DOL | 1.15 | BC | 0.36 | Vert(CT) | -0.11 | 4-7 | >650 | 240 | | | |
| BCLL 0 | 0.0 * | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 2 | n/a | n/a | | | |
| BCDL 10 | 0.0 | Code IRC2018/T | PI2014 | Matrix | k-AS | Wind(LL) | 0.04 | 4-7 | >999 | 240 | Weight: 23 lb | FT = 20% | |
| LUMBER- | | | | | | BRACING- | | | | | | | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

2x4 SP No.3 REACTIONS.

2=0-3-0, 4=0-1-8 (size) Max Horz 2=77(LC 8) Max Uplift 2=-54(LC 8), 4=-24(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4. 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.



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| | ŀ | 6-0-0 6-0-0 | | | | | | | | | |
|--|--|--|--|---|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF | 2-0-0 1.15 1.15 YES Pl2014 | CSI. TC 0.46 BC 0.36 WB 0.03 Matrix-AS | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.05 -0.11 0.00 0.04 | (loc) 4-7 4-7 2 4-7 | l/defl >999 >650 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 23 lb | GRIP 244/190 FT = 20% | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

WEBS 2x4 SP No.3 REACTIONS. (size) 2=0-3-

TONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=77(LC 8) Max Uplift 2=-54(LC 8), 4=-24(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 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.



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818 Soundside Road



| | ŀ | 6-0-0 6-0-0 | | | | | | | | | |
|--|--|--|--|---|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF | 2-0-0 1.15 1.15 YES Pl2014 | CSI. TC 0.46 BC 0.36 WB 0.03 Matrix-AS | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.05 -0.11 0.00 0.04 | (loc) 4-7 4-7 2 4-7 | l/defl >999 >650 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 23 lb | GRIP 244/190 FT = 20% | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

WEBS 2x4 SP No.3 **REACTIONS.** (size) 2=0-3-1

10NS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=77(LC 8) Max Uplift 2=-54(LC 8), 4=-24(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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.



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818 Soundside Road



| | | 3-10-15 3-10-15 | | | | | | | | | | |
|---------|---------|--------------------|-------|--------|------|----------|-------|-------|--------|-----|---------------|----------|
| 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 TC | 0.18 | Vert(LL) | -0.01 | 4-7 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | -0.02 | 4-7 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/TP | 12014 | Matrix | -MP | Wind(LL) | 0.01 | 4-7 | >999 | 240 | Weight: 14 lb | FT = 20% |

TOP CHORD

BOT CHORD

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=57(LC 8)

Max Uplift 3=-25(LC 8), 2=-54(LC 8) Max Grav 3=94(LC 1), 2=238(LC 1), 4=68(LC 3)

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

NOTES-

1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat.

II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60

plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * 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.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

6) 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 3-10-15 oc purlins.

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

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LUMBER-



| | 3-10-15 3-10-15 | | | | | | | | | | |
|--|---|--|---|---|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|--|--|--|
| 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 0.18 BC 0.15 WB 0.00 Matrix-MP | DEFL. i Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0 Wind(LL) 0.0 | n (loc) 1 4-7 2 4-7) 2 1 4-7 | l/defl >999 >999 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 14 lb | GRIP 244/190 FT = 20% | | | |

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=57(LC 8)

Max Uplift 3=-25(LC 8), 2=-54(LC 8)

Max Grav 3=94(LC 1), 2=238(LC 1), 4=68(LC 3)

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

NOTES-

1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat.

II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) * 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.

4) Refer to girder(s) for truss to truss connections.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) 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 3-10-15 oc purlins.

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

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818 Soundside Road



| | 6-0-0 6-0-0 | | | | | | | | | |
|--|--|---|---|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|--|
| LOADING (psf) SPACING- TCLL 20.0 Plate Grip DOL TCDL 10.0 Lumber DOL BCLL 0.0 * Rep Stress Incr BCDL 10.0 Code IRC2018/T | 2-0-0 1.15 1.15 YES PI2014 | CSI. TC 0.46 BC 0.36 WB 0.03 Matrix-AS | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.05 -0.11 0.00 0.04 | (loc) 4-7 4-7 2 4-7 | l/defl >999 >650 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 23 lb | GRIP 244/190 FT = 20% | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

VEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=77(LC 8) Max Uplift 2=-54(LC 8), 4=-24(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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.



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A MITek Affi 818 Soundside Road



| | ŀ | 6-0-0 6-0-0 | | | | | | | | | |
|--|--|--|--|---|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|--|
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF | 2-0-0 1.15 1.15 YES Pl2014 | CSI. TC 0.46 BC 0.36 WB 0.03 Matrix-AS | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.05 -0.11 0.00 0.04 | (loc) 4-7 4-7 2 4-7 | l/defl >999 >650 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 23 lb | GRIP 244/190 FT = 20% | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

WEBS 2x4 SP No.3 REACTIONS. (size) 2=0-3

TONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=77(LC 8) Max Uplift 2=-54(LC 8), 4=-24(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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.



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A MiTek Aff 818 Soundside Road Edenton, NC 27932



| 6-0-0 6-0-0 | | | | | | | | | | | |
|--|---|--|---|--------------------------------------|---------------------------------|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|--|--|
| LOADING (psf) SPACING TCLL 20.0 Plate Grip TCDL 10.0 Lumber D BCLL 0.0 * Rep Stress BCDL 10.0 Code IRC | - 2-0-0 DOL 1.15 OL 1.15 s Incr YES :2018/TPI2014 | CSI. TC 0.46 BC 0.36 WB 0.03 Matrix-AS | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in -0.05 -0.11 0.00 0.04 | (loc) 4-7 4-7 2 4-7 | l/defl >999 >650 n/a >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 23 lb | GRIP 244/190 FT = 20% | | |

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD2x4 SP No.2BOT CHORD2x4 SP No.2WEBS2x4 SP No.3

WEBS 2x4 SP No.3 REACTIONS. (size) 2=0-3

10NS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=77(LC 8) Max Uplift 2=-54(LC 8), 4=-24(LC 8) Max Grav 2=314(LC 1), 4=227(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 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.



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818 Soundside Road



July 30,2024

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KENL



July 30,2024

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BENC



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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.

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 with a clearance greater than 6-0-0 between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=129, 2=105, 4=105.

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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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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.

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 Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60

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3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.

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 with a clearance greater than 6-0-0 between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 1, 125 lb uplift at joint 5, 118 lb uplift at joint 2 and 118 lb uplift at joint 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.

10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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- II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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I RENC





Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 4 except 1=-101(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 4, 6 except 2=254(LC 13)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.

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 with a clearance greater than 6-0-0 between the bottom chord and any other members.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 4 except (jt=lb) 1=101.

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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Max Uplift All uplift 100 lb or less at joint(s) 5, 2, 4 except 1=-101(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 4, 6 except 2=254(LC 13)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

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7) * 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.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 4 except (jt=lb) 1=101.

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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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between the bottom chord and any other members.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 4 except (jt=lb) 1=101.

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.

12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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RENCO A MITEK Affiliate

818 Soundside Road



| Plate Offsets (X,Y) | [6:0-4-0,0-2-0], [8:0-4-0,0-2-0] | | | _ |
|--|---|--|---|---|
| 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 0.16 BC 0.17 WB 0.50 Matrix-AS | DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.04 13-15 >999 360 MT20 244/190 Vert(CT) -0.05 13-15 >999 240 MT20 244/190 Horz(CT) 0.01 11 n/a n/a Wind(LL) 0.01 12-19 >999 240 Weight: 229 lb FT = 20% | |
| | | | | |

| LUMBER- | | BRACING- | | |
|-----------|---|-----------|-------------------------------|--------------------------|
| TOP CHORD | 2x4 SP 2400F 2.0E | TOP CHORD | Structural wood sheathing | directly applied, except |
| BOT CHORD | 2x6 SP No.1 | | 2-0-0 oc purlins (6-0-0 max | x.): 6-8. |
| WEBS | 2x4 SP No.3 | BOT CHORD | Rigid ceiling directly applie | ed. |
| SLIDER | Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3 1-6-0 | WEBS | 1 Row at midpt | 6-15, 7-15, 8-13 |
| | - | | | |

REACTIONS. (size) 11=0-3-8, 2=0-3-8, 15=0-3-8 Max Horz 2=233(LC 7) Max Uplift 11=-68(LC 8), 2=-94(LC 8), 15=-73(LC 8) Max Grav 11=753(LC 14), 2=520(LC 19), 15=1400(LC 13)

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

TOP CHORD 2-4=-436/100, 7-8=-415/181, 8-9=-590/172, 9-11=-897/129

BOT CHORD 2-16=-56/374, 15-16=-56/374, 12-13=-17/653, 11-12=-17/653

WEBS 4-15=-440/137, 6-15=-314/24, 7-15=-703/54, 7-13=-7/521, 9-13=-414/140

NOTES-

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

 2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 11, 94 lb uplift at joint 2 and 73 lb uplift at joint 15.

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.



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| | 6-4-13 14-0 | -8 21 | -8-3 | 27-3-12 | 30-5-14 | 39-1-8 | |
|---|--|---|--|--|---|--|------------------------------------|
| | 6-4-13 7-7- | 11 7- | 7-11 | 5-7-9 | 3-2-2 | 8-7-10 | |
| Plate Offsets (X,Y) | [4:0-5-4,0-3-4], [6:0-5-4,0-2-12] | | | | | | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2018/TPI2014 | CSI. TC 0.26 BC 0.39 WB 0.65 Matrix-AS | DEFL. ir Vert(LL) -0.15 Vert(CT) -0.24 Horz(CT) 0.01 Wind(LL) 0.08 | n (loc) l/defl 15-17 >999 15-17 >999 10 n/a 15-17 >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 349 lb | GRIP 244/190 FT = 20% |
| LUMBER- | | II | BRACING- | | | | |
| TOP CHORD 2x6 SP 8-11: 2 BOT CHORD 2x6 SP WEBS 2x4 SP 4-18,5- | No.1 *Except* x4 SP 2400F 2.0E No.1 No.3 *Except* 17: 2x4 SP No.2, 2-19: 2x6 SP No.1 | | TOP CHORD BOT CHORD WEBS JOINTS | Structural woo 2-0-0 oc purlin Rigid ceiling d 1 Row at midp 1 Brace at Jt(s | d sheathing direc is (6-0-0 max.): 4- irectly applied. it 6-1: 5): 20, 21 | tly applied, except e 6. 5, 7-13, 3-19 | nd verticals, and |
| REACTIONS. (size Max H Max U Max G | e) 13=0-3-8, 19=0-3-8, 10=0-3-8 orz 19=-342(LC 6) plift 13=-165(LC 8), 19=-111(LC 8), 10= rav 13=2455(LC 14), 19=1233(LC 13), | 180(LC 21) 10=132(LC 1) | | | | | |
| FORCES. (lb) - Max. TOP CHORD 3-4=- 8-9=- BOT CHORD 18-19 10-12 WEBS 3-18- 7-15= | Comp./Max. Ten All forces 250 (lb) of 767/202, 4-5=-685/199, 5-6=-663/198, 226/1041, 9-10=-199/776, 2-19=-312/2/ 9=-59/546, 17-18=0/741, 15-17=-84/292 2=-689/209 =-17/593, 17-21=-412/141, 5-21=-436/1 43/1619, 7-13=-2275/169, 8-12=0/363 | less except when shown. 5-7=-369/151, 7-8=-170/13: 03 , 13-15=-1076/237, 12-13= 42, 6-17=-51/763, 6-15=-85 , 9-12=-381/109, 3-19=-974 | 36, -957/264, 66/107, 4/8 | | | | |
| NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V II; Exp B; Enclosed; plate grip DOL=1.60 3) Provide adequate df 4) This truss has been 5) * This truss has been between the bottom 6) Provide mechanical joint 19 and 180 lb u 7) This truss is designer referenced standard | e loads have been considered for this de fult=140mph (3-second gust) Vasd=111 MWFRS (directional); cantilever left and ainage to prevent water ponding. designed for a 10.0 psf bottom chord liv n designed for a live load of 20.0psf on chord and any other members, with BC connection (by others) of truss to bearin plift at joint 10. ed in accordance with the 2018 Internati ANSI/TPI 1. | sign. mph; TCDL=6.0psf; BCDL= d right exposed ; end vertica e load nonconcurrent with a the bottom chord in all area DL = 10.0psf. g plate capable of withstan onal Residential Code section | -6.0psf; h=20ft; B=45ft; al left and right expose any other live loads. s with a clearance grea iding 165 lb uplift at join ions R502.11.1 and R8 | L=39ft; eave=5 d; Lumber DOL= ater than 6-0-0 nt 13, 111 lb upli 02.10.2 and | ft; Cat. :1.60 ft at | SE/ | AROLINI CARPACT |

ural 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.



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| | ł | 6-4-13 | 14-0-8 | | | 21-8-3 | | 2 | 27-3-12 | | 30-5-14 | | 39-1-8 | | |
|----------------------------|-----------------------|--|------------------------------|-------------|--------------|-------------------|-----------------|----------|-----------|-------------|-------------|------------|-------------------|--|--|
| Plate Offset | ts (X Y) | 6-4-13 [4:0-5-4 0-3-4] [6:0-5-4 0-2 | -12] | | | /-/-11 | | | 5-7-9 | | 3-2-2 | | 8-7-10 | | |
| | 10 (71,17 | | · · ~] | | | | | | | | | | | | |
| 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 | 0.26 | | Vert(LL) | -0.15 | 15-17 | >999 | 360 | | MT20 | 244/190 | |
| BCLI | 0.0 * | Rep Stress Incr | YES | WB | 0.39 | | Horz(CT) | -0.24 | 10-17 | >999 n/a | 240 n/a | | | | |
| BCDL | 10.0 | Code IRC2018/TPI2 | 2014 | Matrix | -AS | | Wind(LL) | 0.08 | 15-17 | >999 | 240 | | Weight: 349 lb | FT = 20% | |
| LUMBER- | | | | | | | BRACING- | | | | | | | | |
| TOP CHOR | D 2x6 SP | No.1 *Except* | | | | | TOP CHOR | D | Structu | ral wood | sheathing | directly | applied, except e | end verticals, and | |
| | 8-11: 2 | x4 SP 2400F 2.0E | | | | | | | 2-0-0 o | c purlins | s (6-0-0 ma | ax.): 4-6. | | | |
| BOT CHOR | D 2x6 SP | No.1 | | | | | BOT CHOR | D | Rigid ce | eiling dir | ectly appli | ed. | | | |
| WEBS | 2x4 SP | No.3 *Except* | | | | | WEBS | | 1 Row a | at midpt | . 00. 04 | 6-15, | 7-13, 3-19 | | |
| | 4-18,5- | 17: 2x4 SP NO.2, 2-19: 2x6 | 5P NO.1 | | | | JUINTS | | I Brace | at JI(S) | : 20, 21 | | | | |
| REACTION | IS. (size | e) 13=0-3-8, 19=0-3-8, 10 | =0-3-8 | | | | | | | | | | | | |
| | Max H | orz 19=-342(LC 6) | | | | | | | | | | | | | |
| | Max U | plift 13=-165(LC 8), 19=-11 | 1(LC 8), 10=-1 | B0(LC 21) | | | | | | | | | | | |
| | Max G | rav 13=2455(LC 14), 19=1 | 233(LC 13), 10 | =132(LC 1 |) | | | | | | | | | | |
| FORCES | (lb) - Max | Comp /Max Ten - All force | es 250 (lb) or le | ss evcent i | when show | 'n | | | | | | | | | |
| TOP CHOR | (15) Wax. RD 3-4=- | 767/202, 4-5=-685/199, 5-6 | =-663/198, 6-7 | =-369/151 | , 7-8=-168/ | /1336, | | | | | | | | | |
| | 8-9=- | 224/1041, 9-10=-197/776, 2 | 2-19=-312/203 | | , | , | | | | | | | | | |
| BOT CHOR | RD 18-19 | =-59/546, 17-18=0/741, 15 | -17=-84/292, 1 | 3-15=-107 | 6/236, 12-1 | 13=-957 | /263, | | | | | | | | |
| | 10-12 | 2=-689/208 | - 04 400/440 | 0 47 54 | 700 0 45 | 050/40 | | | | | | | | | |
| WEBS | 3-18= | =-17/593, 17-21=-412/141, 5 /1/1610, 7-132275/160 | 21=-436/142, 8-12=0/363 0 | 6-1/=-51/ | /63,6-15= | -856/10 .074/8 | 106, | | | | | | | | |
| | 7-10- | 41/1013, 7-132273/103, | 0-12-0/303, 9 | -12301/1 | 103, 3-13 | 314/0 | | | | | | | | | |
| NOTES- | | | | | | | | | | | | | | | |
| 1) Unbalan | ced roof live | loads have been considered | ed for this desig | jn. | | | | | | | | | | | |
| 2) Wind: AS | SCE 7-16; V | ult=140mph (3-second gus | t) Vasd=111mp | h; TCDL=6 | 6.0psf; BCI | DL=6.0p | osf; h=20ft; B | =45ft; I | L=39ft; e | ave=5ft | ; Cat. | | | 1.1.201 | |
| II; EXP B | ; Enclosed; | WWFRS (directional); canti | lever left and ri | gnt expose | ea ; ena vei | rtical let | t and right ex | posea | ; Lumbe | r DOL= | 1.60 | | | in the second se | |
| 3) Provide a | adequate dr | ainage to prevent water po | ndina. | | | | | | | | | | IN THU | ARO | |
| 4) This trus | s has been | designed for a 10.0 psf bot | om chord live I | oad nonco | ncurrent w | ith any | other live load | ds. | | | | ^ | 10h | Si Alle | |
| 5) * This tru | iss has beei | n designed for a live load of | 20.0psf on the | bottom ch | ord in all a | reas wi | h a clearanc | e great | ter than | 6-0-0 | | 11 | Trick 1 | Mineia | |
| between | the bottom | chord and any other memb | ers, with BCDL | = 10.0psf | | | | | | | | 0.0 | :0 V | 4: 3 | |
| 6) Provide i ioint 19 c | mechanical | connection (by others) of tr | uss to bearing | plate capal | ble of withs | standing | 165 ID uplift | at joint | t 13, 111 | Ib uplif | tat | Ξ | . OF | AL 1 | |
| 7) This trus | s is designe | ed in accordance with the 20 |)18 Internation | al Resident | tial Code s | ections | R502 11 1 a | nd R80 |)2 10 2 a | ind | | - | : SE/ | AL E | |
| reference | ed standard | ANSI/TPI 1. | | | | | | | | | | Ξ | 458 | 44 : = | |
| 8) This trus | s design red | quires that a minimum of 7/* | 16" structural w | ood sheatl | hing be app | olied dir | ectly to the to | op chor | rd and 1/ | 2" gyps | um | Ξ | 1 | 1 E | |
| sheetroc | k be applied | d directly to the bottom chor | d. | | | | | | | | | 1 | | 1 1 2 3 | |

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

.10 minim July 30,2024

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| | ⊢ | 6-4-13 | 14-0-8 | | | 21-8-3 | | 2 | 7-3-12 | | 30-5-14 | 39-1-8 | |
|---|-------------------------------------|---|---------------------------|--------------|---------------|-------------|--|---------|------------|------------|--------------|------------------|----------|
| Plate Offsets (X | Y) [? | 3.0-5-4 0-3-4] [5.0-5-4 | 0-2-12] [18:0-2- | 12 0-2-81 | | 7-7-11 | | | 5-7-9 | | 3-2-2 | 8-7-10 | |
| | | 5.0 0 1,0 0 1], [0.0 0 1 | <u>1,0 2 12], [10.0 2</u> | 12,0 2 0] | | | | | | | | | |
| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | | Plate Grip DOL | 1.15 | TC | 0.26 | | Vert(LL) | -0.15 | 14-16 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | | Lumber DOL | 1.15 | BC | 0.39 | | Vert(CT) | -0.24 | 14-16 | >999 | 240 | | |
| BCLL 0.0 | * | Rep Stress Incr | YES | WB | 0.65 | | Horz(CT) | 0.01 | 9 | n/a | n/a | | |
| BCDL 10.0 | 10.0 Code IRC2018/TPI2014 Matrix-AS | | | | | | | 0.08 | 14-16 | >999 | 240 | Weight: 347 lb | FT = 20% |
| LUMBER- | I | | | | | | BRACING- | | | | | | |
| TOP CHORD 2 | 2x6 SP I | No.1 *Except* | | | | | TOP CHORD Structural wood sheathing directly applied, except | | | | | | |
| 7 | 7-10: 2x | 4 SP 2400F 2.0E | | | | | | _ | 2-0-0 oc | c purlins | (6-0-0 max | x.): 3-5. | |
| BOT CHORD 2 | 2x6 SP I | No.1 | | | | | BOICHOR | D | Rigid ce | eiling dir | ectly applie | ed. | |
| WEBS 2 | 2X4 SP I 2 1 7 4 1 | | OVE SD No.1 | | | | WEBS | | 1 Row a | at midpt | . 10. 20 | 5-14, 6-12, 2-18 | |
| 3 | 5-17,4-1 | 0. 284 SF NU.2, 1-10. | 2X0 3P NU.1 | | | | JUINTS | | I DIACE | al JI(S) | . 19, 20 | | |
| REACTIONS. | (size) | 12=0-3-8, 18=0-3-8 | 3. 9=0-3-8 | | | | | | | | | | |
| 1 | Max Ho | rz 18=-194(LC 8) | , | | | | | | | | | | |
| 1 | Max Up | lift 12=-194(LC 8), 18: | =-69(LC 8), 9=-18 | 31(LC 21) | | | | | | | | | |
| I | Max Gra | av 12=2449(LC 14), 1 | 8=1136(LC 13), 9 | 9=131(LC 1) |) | | | | | | | | |
| | | | | | | | | | | | | | |
| TORCES. (ID) - | - Max. C | omp./Max. Ten All 1 | orces 250 (Ib) or | less except | when show | NN. | | | | | | | |
| TOP CHORD | 2-3=-7 | 21/133, 3-4=-003/148 | , 4-5=-630/145, 5 o | -0=-335/95, | 0-7=-172/ | 1318, | | | | | | | |
| | 17-18- | -37/500 16-17-0/709 | 0 | 12-14106 | 2/2/0 11- | 12-0/1 | /267 | | | | | | |
| BOT CHORD | 9-11=- | 691/212 | , 14-1071/200, | 12-14-100 | 2/240, 11- | 12341 | /201, | | | | | | |
| WEBS | 2-17=- | 9/586, 16-20=-413/13 | 4, 4-20=-437/138 | , 5-16=-38/7 | 754, 5-14=- | -851/119 |), | | | | | | |
| | 6-14=- | 60/1611, 6-12=-2266/ | 213, 7-11=0/363, | 8-11=-381/ | 111, 2-18= | -1015/6 | 2 | | | | | | |
| NOTES | | | | | | | | | | | | | |
| 1) Unbalanced re | oof live l | ands have been cons | idered for this de | sian | | | | | | | | | |
| 2) Wind: ASCE 7 | 7-16: \/u | It-140mph (3-second | nuet) Vaed-111r | nnh: TCDI – | 6 Onsf: BC | DI -6 0 | osf: h=20ft: B | -45ft· | I –30ft∙ ≏ | ave-5ft | Cat | | |
| II: Exp B: Encl | losed N | WFRS (directional): c | antilever left and | right expos | ed · end ve | ertical lef | t and right ex | nosed | · Lumber | DOI = 1 | 60 | | um. |
| plate grip DOL | L=1.60 | (directional), c | | ingin expect | ou , onu ro | | r ana ngini on | | , | | | | AD |
| 3) Provide adequ | uate dra | inage to prevent wate | r ponding. | | | | | | | | | THU | ARO |
| 4) This truss has | s been d | esigned for a 10.0 psf | bottom chord live | e load nonco | oncurrent w | vith any | other live load | ds. | | | | 1 of LER | Sin All |
| 5) * This truss ha | as been | designed for a live loa | ad of 20.0psf on t | ne bottom cl | hord in all a | areas wi | th a clearanc | e great | ter than 6 | 6-0-0 | | 1 Dirice 1 | Mixin |
| between the b | oottom c | hord and any other me | embers, with BCI | DL = 10.0pst | f. | | | | | | | | 1 |
| Provide mecha joint 18 and 18 | anical c 81 lb up | onnection (by others) lift at joint 9. | of truss to bearin | g plate capa | ble of with | standing | 194 lb uplift | at join | t 12, 69 l | b uplift a | at | E / 0= | |
| 7) This truss is d | lesigned | I in accordance with th | e 2018 Internatio | nal Resider | tial Code s | sections | R502.11.1 a | nd R80 |)2.10.2 a | nd | | | |
| referenced sta | andard A | ANSI/TPI 1. | | | | | | | | | | - • 458 | 544 • - |

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.



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a trust system and the solution was 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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)





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A MiTek 818 Soundside Road Edenton, NC 27932



July 30,2024

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818 Soundside Road



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A MiTek Affi



| L | 6-1-8 | 11-11-8 | | 18-5-8 | 1 | 22-11-12 | 26-1-14 | 34-9-8 | |
|--|---|--|--|---|--|---|---|---|------------------------------------|
| | 6-1-8 | 5-10-0 | 1 | 6-6-0 | | 4-6-4 | 3-2-2 | 8-7-10 | |
| Plate Offsets (X,Y) | [2:0-5-8,0-0-3], [6:0-2-4,0 | -2-0] | | | | | | | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0 | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP | 2-0-0 1.15 1.15 YES 12014 | CSI. TC 0.30 BC 0.23 WB 0.84 Matrix-AS | | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in (loc) -0.07 14-27 -0.15 14-27 0.01 12 0.02 19 | l/defl L/d >999 360 >922 240 n/a n/a >999 240 | PLATES MT20 Weight: 233 lb | GRIP 244/190 FT = 20% |
| LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF SLIDER Left 2x | P No.2 P 2400F 2.0E P No.3 66 SP No.1 1-6-0 | | | | BRACING- TOP CHOP BOT CHOP WEBS | RD Structo 2-0-0 o RD Rigid o 1 Row | ural wood sheathing oc purlins (6-0-0 max ceiling directly applie at midpt | directly applied, except (.): 6-8. d. 7-17, 8-17 | |
| REACTIONS. (siz Max H Max U Max C | e) 2=0-3-8, 15=0-3-8, 12 Horz 2=-241(LC 6) Jplift 2=-103(LC 8), 15=-13 Grav 2=957(LC 13), 15=15 | 2=0-3-8 35(LC 8), 12=-5 31(LC 1), 12=4 | 59(LC 8) 462(LC 20) | | | | | | |
| FORCES. (lb) - Max. TOP CHORD 2-4= 11-11 BOT CHORD 2-20 WEBS 4-19 10-11 | Comp./Max. Ten All forr -1079/112, 4-6=-789/161, 2=-535/54 =0/951, 19-20=0/951, 17-1 =-388/136, 7-19=-17/358, 5=-422/49, 10-14=0/365, 1 | ces 250 (lb) or 6-7=-579/172, 9=0/548, 12-1 7-17=-496/53, 1-14=-370/107 | less except when s 7-8=-320/150, 8-9= 4=0/472 9-17=0/794, 9-15= 7 | shown. 480/142, -1173/121, | 9-10=0/270, | | | | |
| NOTES- 1) Unbalanced roof live 2) Wind: ASCE 7-16; V II; Exp B; Enclosed; plate grip DOL=1.60 3) Provide adequate d 4) All plates are 4x4 M 5) This truss has been 6) * This truss has beetween the bottom 7) Provide mechanical joint 15 and 59 lb up 8) This truss is design referenced standard 9) This truss design re sheetrock be applie 10) Graphical purlin re | e loads have been conside /ult=140mph (3-second gu MWFRS (directional); car) rainage to prevent water p IT20 unless otherwise indic designed for a 10.0 psf bd or chord and any other mem connection (by others) of olift at joint 12. ed in accordance with the 2 d ANSI/TPI 1. quires that a minimum of 7 d directly to the bottom cho presentation does not dep | ered for this de ist) Vasd=111r tillever left and onding. cated. tom chord live of 20.0psf on the bers, with BCI truss to bearin 2018 Internatio 7/16" structural ord. ict the size or t | sign. nph; TCDL=6.0psf; right exposed ; end e load nonconcurre he bottom chord in DL = 10.0psf. g plate capable of v onal Residential Co- wood sheathing be the orientation of th | BCDL=6.0 d vertical le nt with any all areas w vithstandin de sections e applied di e purlin alc | psf; h=20ft; f ft and right e other live loo ith a clearan g 103 lb uplif s R502.11.1 a rectly to the f ng the top an | B=45ft; L=35ft; xposed; Lumbo ads. ce greater thar t at joint 2, 135 and R802.10.2 top chord and f nd/or bottom cf | eave=4ft; Cat. er DOL=1.60 n 6-0-0 i lb uplift at and 1/2" gypsum nord. | SE 458 | AROLINA SOUS |



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| 1 | 6-1-8 | 11-11-8 | 18-5-8 | 1 | 22-11-12 | 1 26-1-14 | L I | 34-9-8 | 1 |
|---|--|--|--|--|---|--|--|--|------------------------------------|
| l I | 6-1-8 | 5-10-0 | 6-6-0 | | 4-6-4 | 3-2-2 | 1 | 8-7-10 | 1 |
| Plate Offsets (X Y) | [1:0-3-8 Edge] [4:0-2-4 0 | -2-01 | | | | | | | |
| | [1.0 0 0,Edg0]; [1.0 2 1,0 | 20] | | | | | | | |
| LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF | 2-0-0 1.15 1.15 YES Pl2014 | CSI. TC 0.15 BC 0.22 WB 0.80 Matrix-AS | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in (lo -0.07 12-2 -0.14 12-2 0.02 0.01 18-2 | c) l/defl 25 >999 25 >981 10 n/a 21 >999 | L/d 360 240 n/a 240 | PLATES MT20 Weight: 231 lb | GRIP 244/190 FT = 20% |
| LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF SLIDER Left 2x | 2400F 2.0E 2400F 2.0E 2 No.3 66 SP No.1 1-6-0 | | | BRACING TOP CHO BOT CHO WEBS | - RD Stru 2-0- RD Rigi 1 R | uctural wood s -0 oc purlins (6 id ceiling direc ow at midpt | heathing dir 5-0-0 max.): tly applied. 5- | ectly applied, except 4-6. -15, 6-15 | |
| REACTIONS. (siz Max H Max L Max C | e) 1=0-3-8, 13=0-3-8, 1 Horz 1=-233(LC 6) Jplift 1=-65(LC 8), 13=-12- Grav 1=902(LC 13), 13=14 | 0=0-3-8 4(LC 8), 10=-6 490(LC 1), 10= | 7(LC 8) 483(LC 20) | | | | | | |
| FORCES. (lb) - Max. TOP CHORD 1-3= 9-10 BOT CHORD 1-18 WEBS 3-17 8-13 | Comp./Max. Ten All for -1108/121, 3-4=-815/169,)=-586/72 =0/976, 17-18=0/976, 15- =-393/139, 5-17=-14/346, =-433/55, 8-12=0/361, 9-1 | ces 250 (lb) or 4-5=-600/178, 17=0/573, 10-1 5-15=-481/49, 2=-369/103 | less except when shown 5-6=-348/159, 6-7=-515/ 2=-0/519 7-15=0/752, 7-13=-1121/ | 153, 8-9=-255/22 /107, | , , | | | | |
| NOTES- 1) Unbalanced roof liva 2) Wind: ASCE 7-16; N II; Exp B; Enclosed; plate grip DOL=1.60 3) Provide adequate d 4) All plates are 4x4 M 5) This truss has been 6) * This truss has been 6) * This truss has been 6) * This truss has been 7) Provide mechanical 13 and 67 lb uplift a 8) This truss is design referenced standard 9) This truss design resheetrock be applie 10) Graphical purlin re | e loads have been conside /ult=140mph (3-second gr MWFRS (directional); car) rainage to prevent water p T20 unless otherwise indi designed for a 10.0 psf b in designed for a live load chord and any other men connection (by others) of t joint 10. ed in accordance with the d ANSI/TPI 1. quires that a minimum of d directly to the bottom ch presentation does not dep | ered for this de ust) Vasd=111r ntilever left and oonding. cated. ottom chord liv of 20.0psf on t nbers, with BCI truss to bearin 2018 Internatio 7/16" structural ord. pict the size or | sign. mph; TCDL=6.0psf; BCDI I right exposed ; end verti- he bottom chord in all are DL = 10.0psf. g plate capable of withsta onal Residential Code sec I wood sheathing be appli the orientation of the purli | L=6.0psf; h=20ft; cal left and right any other live lo as with a clearar anding 65 lb uplif ctions R502.11.1 ed directly to the n along the top a | B=45ft; L=35 exposed; Lur ads. ace greater th at joint 1, 12 and R802.10 top chord an nd/or bottom | 5ft; eave=4ft; C nber DOL=1.6 nan 6-0-0 24 lb uplift at jc 0.2 and nd 1/2" gypsun n chord. | Dat. o | SE 458 | AROLINA AL 344 |



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| | 1 | 6-1-8 | 11-11-8 | 1 | 18-5-8 | 1 | 22-11-1 | 12 | 26-1- | 14 1 | 34-9-8 | 1 |
|----------------------------------|-----------------|--|-------------------|---------------|------------------|--------------------|----------|-----------|-------------|---------------|------------------------|---------------------------------------|
| | ſ | 6-1-8 | 5-10-0 | 1 | 6-6-0 | 1 | 4-6-4 | | 3-2- | 2 | 8-7-10 | |
| Plate Offse | ets (X,Y) | [1:0-3-8,Edge], [4:0-2-4,0 |)-2-0] | | | | | | | | | |
| | | [| | | | | | | | | | |
| | (nef) | SPACING- | 2-0-0 | 190 | | DEEL | in | (loc) | l/dofl | L/d | DIATES | GPIP |
| TOU | 20.0 | | 2-0-0 | TC | 0.45 | | 0.07 | 40.05 | . 000 | 200 | MTOO | 244/400 |
| TOLL | 20.0 | Plate Grip DOL | 1.15 | 10 | 0.15 | Vert(LL) | -0.07 | 12-25 | >999 | 360 | M120 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.14 | 12-25 | >981 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.80 | Horz(CT) | 0.02 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2018/T | PI2014 | Matri | x-AS | Wind(LL) | 0.01 | 18-21 | >999 | 240 | Weight: 231 lb | FT = 20% |
| | | | | | | | | | | | | |
| LUMBER- | • | | | | | BRACING | i- | | | | | |
| TOP CHO | RD 2x4 SF | 2400F 2.0E | | | | TOP CHO | RD | Structu | iral wood | sheathing dir | rectly applied, except | |
| BOT CHO | RD 2x4 SF | 2400F 2.0E | | | | | | 2-0-0 0 | oc purlins | (6-0-0 max.): | 4-6. | |
| WEBS | 2x4 SF | No 3 | | | | BOT CHO | RD | Rigid c | eilina dir | ectly applied | | |
| SLIDER | Loft 2v | 6 SP No 1 1-6-0 | | | | WEBS | | 1 Row | at midnt | 5000 0000 | -15 6-15 | |
| OLIDEIX | Len ZA | 0.01 110.1 1-0-0 | | | | WLDO | | TROW | armupt | 5 | -13, 0-13 | |
| REACTIO | NS (siz | a) 1-0-3-8 13-0-3-8 1 | 0-0-3-8 | | | | | | | | | |
| REACTIO | | $(-2)^{-1} = (-3)^{-2} = (-3)$ | 0=0-3-0 | | | | | | | | | |
| | Max H | 1012 1=-233(LC 6) | 44.0.0 | 7/1 (0, 0) | | | | | | | | |
| | Max U | 12 - 12 = 12 | 4(LC 8), 10=-6 | 7(LC 8) | | | | | | | | |
| | Max G | Grav 1=902(LC 13), 13=1 | 490(LC 1), 10= | 483(LC 20) | | | | | | | | |
| | | | | | | | | | | | | |
| FORCES. | (lb) - Max. | Comp./Max. Ten All for | rces 250 (lb) or | less except | when shown. | | | | | | | |
| TOP CHO | RD 1-3=- | -1108/121, 3-4=-815/169, | 4-5=-600/178, | 5-6=-348/15 | 59, 6-7=-515/1 | 53, 8-9=-255/22 | 2. | | | | | |
| | 9-10 | =-586/72 | , | | , | , | | | | | | |
| BOT CHO | RD 1-18- | -0/976 17-18-0/976 15- | 17-0/573 10-1 | 20/519 | | | | | | | | |
| WERS | 2 17 | - 202/120 5 17- 14/246 | 5 15- 491/40 | 7 15-0/752 | 7 12- 1121/ | 107 | | | | | | |
| WEBS | 0.40 | =-393/139, 3-17=-14/340, | 3-13=-401/49, | 7-15=0/752 | , /-13=-1121/ | 107, | | | | | | |
| | 8-13 | =-433/55, 8-12=0/361, 9- | 12=-369/103 | | | | | | | | | |
| | | | | | | | | | | | | |
| NOTES- | | | | | | | | | | | | |
| Unbalar | nced roof live | e loads have been consid | ered for this de | sign. | | | | | | | | |
| 2) Wind: A | ASCE 7-16; \ | /ult=140mph (3-second g | ust) Vasd=111ı | mph; TCDL= | 6.0psf; BCDL | =6.0psf; h=20ft; | B=45ft; | L=35ft; | eave=4ft | Cat. | | |
| II; Exp I | B; Enclosed; | MWFRS (directional); ca | ntilever left and | I right expos | ed ; end vertic | al left and right | exposed | d; Lumbe | er DOL=1 | .60 | | |
| plate or | ip DOL=1.60 |) | | 0 1 | | 0 | • | | | | | |
| 3) Provide | adequate di | rainage to prevent water i | oonding | | | | | | | | | 1111. |
| 4) All plate | e are 4v4 M | T20 unless otherwise ind | icated | | | | | | | | | a million |
| F) This true | | designed for a 10.0 meth | | | | | | | | | THU | ARO |
| 5) This tru | iss has been | designed for a 10.0 psi b | | e load nonce | | any other live ic | aus. | | | | 1 N RI | |
| 6) " I NIS TI | russ nas bee | n designed for a live load | of 20.0pst on t | ne bottom c | nord in all area | as with a clearai | ice grea | ater than | 6-0-0 | | S.O'.EES | SIN |
| betwee | n the bottom | chord and any other mer | nbers, with BC | DL = 10.0ps | t. | | | | | | LATA OL | L'anne |
| Provide | e mechanical | connection (by others) of | truss to bearin | ig plate capa | able of withsta | nding 65 lb uplif | at joint | 1, 124 I | b uplift at | joint 🕓 | | 1. 2 |
| 13 and | 67 lb uplift at | t joint 10. | | | | | | | | | | |
| 8) This tru | iss is designe | ed in accordance with the | 2018 Internatio | onal Resider | ntial Code sec | tions R502.11.1 | and R80 | 02.10.2 | and | - | SF SF | |
| referen | ced standard | I ANSI/TPI 1. | | | | | | | | | | . : : |
| 9) This tru | iss design re | quires that a minimum of | 7/16" structural | wood shea | thing be applie | ed directly to the | top cho | rd and 1 | /2" avpsi | ım 📮 | : : 458 | 344 : = |
| sheetro | ck he annlie | d directly to the bottom ch | ord | | | | | | - 9,00 | | | · · · · · · · · · · · · · · · · · · · |
| 10) Grand | ical nurlin ro | presentation does not do | nict the size or | the orientati | on of the nurli | a along the top of | nd/or b | ottom of | ord | | | 1. E |
| iu) Giaph | icai puriiri re | presentation dues not de | | une unentatio | | along the top a | | Short Cr | iuiu. | | 27:A. | a: 23 |
| | | | | | | | | | | | A SNOU | LEFT ON |



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II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0

between the bottom chord and any other members.5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 10 and 81 lb uplift at joint 8.

6) 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.



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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.



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7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 8 and 125 lb uplift at joint 14.

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



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818 Soundside Road Edenton, NC 27932

July 30,2024



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E RENCO

July 30,2024



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//TPI 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 | Jonah Blakenship\Mrtyle Beach | |
|------------------------|-------------|-----------------------|-----|------------|--|-----------|
| | | | | | | 167205859 |
| 28141 | TG1 | Piggyback Base Girder | 1 | 2 | | |
| | | | | 2 | Job Reference (optional) | |
| C&R Truss. Autrvville. | NC - 28318. | | | 8.530 s Au | a 2 2023 MiTek Industries, Inc. Tue Jul 30 10:53:59 2024 | Page 2 |

ID:43FmfUEpnBwxW36Q?RCfByzursR-ashM_ltgZSFmJU3SZ6HRjHADqYPwgaeMQsS_T8ysurc

NOTES-

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 906 lb down and 94 lb up at 2-0-12, 906 lb down and 94 lb up at 4-0-12, 906 lb down and 94 lb up at 6-0-12, 908 lb down and 95 lb up at 8-0-12, 908 lb down and 95 lb up at 10-0-12, 900 lb down and 95 lb up at 12-0-12, 809 lb down and 95 lb up at 12-3-4, 228 lb down and 850 lb up at 13-1-4, 228 lb down and 850 lb up at 13-1-4, 228 lb down and 850 lb up at 25-1-4, 208 lb down and 843 lb up at 19-1-4, 228 lb down and 850 lb up at 21-1-4, 228 lb down and 850 lb up at 23-1-4, 228 lb down and 850 lb up at 29-1-4, and 231 lb down and 844 lb up at 31-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 6-9=-60, 19-22=-20 Concentrated Loads (lb)

Vert: 16=-899(B) 18=-897(B) 17=-899(B) 15=-1798(B) 11=391(B) 10=389(B) 24=385(B) 25=-897(B) 26=-897(B) 28=391(B) 29=391(B) 30=389(B) 31=389(B) 32=391(B) 33=391(B) 34=389(B)





| | 6-4-13 6-4-13 | 14-0-8 7-7-11 | 21-8-3 7-7-11 | <u>27-3-12</u> 5-7-9 | 30-5-14 | <u> </u> | | | |
|--|---|--|---|---|--|--|--|--|--|
| Plate Offsets (X,Y) | [4:0-5-4,0-2-12], [6:0-5-4,0-2-12], | [29:0-2-0,0-0-6], [30:0-1-8,0-0- | -12], [33:0-1-11,0-0- | 12], [35:0-1-8, | 0-0-12] | | | | |
| 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 NO Code IRC2018/TPI2014 | CSI. TC 0.29 BC 0.54 WB 0.65 Matrix-MS | DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL) | in (loc) -0.15 15-17 -0.24 15-17 0.01 10 0.09 15-17 | l/defl L/d >999 360 >999 240 n/a n/a >999 240 | PLATES MT20 Weight: 442 lb | GRIP 244/190 FT = 20% | | |
| LUMBER- TOP CHORD 2x6 SI 8-11: 2 BOT CHORD 2x6 SI WEBS 2x4 SI 4-18,5 OTHERS 2x4 SI REACTIONS. (siz | P No.1 *Except* 2x4 SP 2400F 2.0E P No.1 P No.3 *Except* -17: 2x4 SP No.2, 2-19: 2x6 SP N P No.3 2e) 13=0-3-8, 19=0-3-8, 10=0-3- | o.1 3 | BRACING- TOP CHORI BOT CHORI WEBS JOINTS | D Structu except D Rigid ca 1 Row a 1 Brace | ral wood sheathing d end verticals, and 2- eiling directly applied at midpt e at Jt(s): 20, 21 | irectly applied or 6-0-0 0-0 oc purlins (6-0-0 ma or 6-0-0 oc bracing. 6-15, 7-13, 3-19 | oc purlins, ix.): 4-6. | | |
| Max H Max U Max C | Max Horz 19=-342(LC 6) Max Uplift 13=-236(LC 34), 19=-208(LC 8), 10=-180(LC 28) Max Grav 13=2503(LC 14), 19=1768(LC 38), 10=207(LC 1) CORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. OP CHORD 3-4=-900/229, 4-5=-771/216, 5-6=-752/215, 6-7=-466/170, 7-8=-336/1427, | | | | | | | | |
| FORCES. (lb) - Max. TOP CHORD 3-4= 8-9= BOT CHORD 18-1 | FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 3-4=-900/229, 4-5=-771/216, 5-6=-752/215, 6-7=-466/170, 7-8=-336/1427, 8-9=-398/1136, 9-10=-366/790, 2-19=-321/207 BOT CHORD 18-19=-78/621, 17-18=0/831, 15-17=-122/364, 13-15=-1144/371, 12-13=-1047/424, 10-246/12/262 | | | | | | | | |
| 10-1 WEBS 3-18 7-15 3-19 | BOT CHORD 18-19=-78/621, 17-18=0/831, 15-17=-122/364, 13-15=-1144/371, 12-13=-1047/424, 10-12=-691/362 WEBS 3-18=-25/635, 17-21=-458/151, 5-21=-476/152, 6-17=-60/792, 6-15=-882/164, 7-15=-123/1659, 7-13=-2349/271, 8-13=-274/39, 8-12=0/362, 9-12=-389/117, 3-19=-1128/31 | | | | | | | | |
| NOTES- 1) Unbalanced roof liv 2) Wind: ASCE 7-16; ' II; Exp B; Enclosed: plate grip DCL=1.6i 3) Truss designed for Gable End Details a 4) Provide adequate d 5) All plates are 2x4 M 6) Gable studs spaced 7) This truss has been 8) * This truss has been between the bottom 9) Provide mechanical joint 19 and 180 lb 10) This truss is designed referenced standa 11) Graphical purlin reference | e loads have been considered for Vult=140mph (3-second gust) Vas MWFRS (directional); cantilever lo wind loads in the plane of the trus as applicable, or consult qualified l trainage to prevent water ponding. IT20 unless otherwise indicated. d at 2-0-0 oc. d designed for a 10.0 psf bottom cl en designed for a live load of 20.0p n chord and any other members, w l connection (by others) of truss to uplift at joint 10. ned in accordance with the 2018 l rd ANSI/TPI 1. spresentation does not depict the s | this design. d=111mph; TCDL=6.0psf; BCD eft and right exposed ; end vert s only. For studs exposed to wi wilding designer as per ANSI/T ord live load nonconcurrent wit sf on the bottom chord in all ar ith BCDL = 10.0psf. bearing plate capable of withst nternational Residential Code s ize or the orientation of the pur | DL=6.0psf; h=20ft; B= tical left and right exp ind (normal to the fa TPI 1. th any other live load reas with a clearance tanding 236 lb uplift is sections R502.11.1 a flin along the top and | =45ft; L=39ft; e posed; Lumbe ce), see Stand ds. e greater than at joint 13, 208 and R802.10.2 4/or bottom che | eave=5ft; Cat. r DOL=1.60 dard Industry 6-0-0 8 lb uplift at and ord. | SE 458 SE | AROLINA SOUTHER AL SA44 VEER SOUTHER JOHNSTITUTE | | |

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| Job | Truss | Truss Type | Qty | Ply | Jonah Blakenship\Mrtyle Beach | |
|------------------------|-------------|------------|----------|------------|--|----------|
| | | | | | | 67205860 |
| 28141 | TG2 | GABLE | 1 | 1 | | |
| | | | | | Job Reference (optional) | |
| C&R Truss, Autryville, | NC - 28318, | | | 8.530 s Au | g 2 2023 MiTek Industries, Inc. Tue Jul 30 10:54:00 2024 F | Page 2 |
| | | ID:43Fn | nfUEpnBw | xW36Q?R | CfByzursR-22FkCeuIKmNdxeee7gogFUjP0yiNP2yVfWBY?a | aysurb |

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 218 lb down and 32 lb up at 0-2-12, and 207 lb down and 44 lb up at 2-0-12, and 207 lb down and 44 lb up at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-8=-60, 8-11=-60, 19-45=-20

Concentrated Loads (lb)

Vert: 19=-218 52=-207 53=-207

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| Job | Truss | Truss Type | Qty | Ply | Jonah Blakenship\Mrtyle Beach | |
|------------------------|--|------------|-----|-----|-------------------------------|-----------|
| | | | | | | 167205861 |
| 28141 | TG3 | GABLE | 1 | 1 | | |
| | | | | | Job Reference (optional) | |
| C&R Truss, Autryville, | C&R Truss, Autryville, NC - 28318, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Jul 30 10:54:01 2024 Page 2 | | | | | |

ID:43FmfUEpnBwxW36Q?RCfByzursR-WFp6P_vw54VUYoDqhXJvoiFalL5Z8azfuAx5X1ysura

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-2=-60, 2-4=-60, 4-6=-60, 6-8=-60, 9-17=-20

Concentrated Loads (lb)

Vert: 16=-207 15=-207

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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

818 Soundside Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Jonah Blakenship\Mrtyle Beach | |
|------------------------|-------------|------------|-----|------------|---|-----------|
| | | | | | | 167205862 |
| 28141 | TG4 | GABLE | 1 | 2 | | |
| | | | | - | Job Reference (optional) | |
| C&R Truss, Autryville, | NC - 28318, | | | 8.530 s Au | Ig 2 2023 MiTek Industries, Inc. Tue Jul 30 10:54:02 2024 | Page 2 |

8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Jul 30 10:54:02 2024 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-?RNUcKvYsNdKAyn0FFq8KvocOlHutuao6qge4TysurZ

NOTES-

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.

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 985 lb down and 97 lb up at 2-0-12, 983 lb down and 76 lb up at 4-0-12, 983 lb down and 76 lb up at 4-0-12, 983 lb down and 76 lb up at 10-0-12, 983 lb down and 76 lb up at 12-0-12, 985 lb down and 76 lb up at 12-0-12, 985 lb down and 76 lb up at 12-0-12, 985 lb down and 97 lb up at 14-0-12, 985 lb down and 97 lb up at 16-0-12, 985 lb down and 97 lb up at 22-0-12, and 985 lb down and 97 lb up at 2

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-7=-60, 7-9=-60, 9-11=-60, 11-13=-60, 28-31=-20

Concentrated Loads (lb)

Vert: 19=-985(B) 23=-985(B) 21=-983(B) 18=-985(B) 17=-985(B) 36=-983(B) 37=-983(B) 38=-983(B) 39=-983(B) 40=-985(B) 41=-985(B)

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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

| Job | Truss | Truss Type | Qty | Ply | Jonah Blakenship\Mrtyle Beach | |
|------------------------|-------------|-----------------|-----------|------------|--|-----------|
| | | | | | | 167205864 |
| 28141 | TG6 | PIGGYBACK ATTIC | 1 | 2 | | |
| | | | | _ | Job Reference (optional) | |
| C&R Truss, Autryville, | NC - 28318, | | | 8.530 s Au | g 2 2023 MiTek Industries, Inc. Tue Jul 30 10:54:03 2024 | Page 2 |
| | | ID:43Fm | nfUEpnBw: | xW36Q?R | CfByzursR-TdxsqgwAdhmBo6MDoyLNt7Lrc9lqcU1xLUQC | cvysurY |

NOTES-

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

13) Attic room checked for L/360 deflection.

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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)



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7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 26, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19, 18, 17.

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.



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- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0
- between the bottom chord and any other members, with BCDL = 10.0psf. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 21, 22, 23, 24, 25, 18, 17, 16, 15, 14.
- 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.



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REACTIONS. (size) 1=8-2-11, 3=8-2-11, 4=8-2-11 Max Horz 1=64(LC 7) Max Uplift 1=-36(LC 8), 3=-36(LC 8) Max Grav 1=170(LC 1), 3=170(LC 1), 4=253(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

 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.



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Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

3

n/a

n/a

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

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

BCLL

BCDL

LUMBER-

BOT CHORD

REACTIONS.

0.0

TOP CHORD 2x4 SP 2400F 2.0E

2x4 SP No.2

(size)

Max Horz 1=-18(LC 6) Max Uplift 1=-6(LC 8), 3=-6(LC 8) Max Grav 1=83(LC 1), 3=83(LC 1)

10.0

NOTES-

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

Rep Stress Incr

1=2-10-11, 3=2-10-11

Code IRC2018/TPI2014

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-P

0.00

3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



FT = 20%

Weight: 8 lb

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

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.sbcaccomponents.com)

TRENCO A MiTek Affiliate





Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=310(LC 13), 6=310(LC 14)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* 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 5) between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.

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.



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REACTIONS. (size) 1=7-10-13, 3=7-10-13, 4=7-10-13 Max Horz 1=61(LC 7) Max Uplift 1=-34(LC 8), 3=-34(LC 8) Max Grav 1=162(LC 1), 3=162(LC 1), 4=242(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

 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.



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818 Soundside Road



| | | 3-11-3 3-11-3 | | 0-0-5 | |
|--|---|--|---|---|------------------------------------|
| 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. DEFL. TC 0.02 Vert(LL) BC 0.02 Vert(CT) WB 0.01 Horz(CT) Matrix-P Horz(CT) Horz(CT) | in (loc) l/defl n/a - n/a n/a - n/a 0.00 3 n/a | L/d PLATES 999 MT20 999 n/a Weight: 13 lb | GRIP 244/190 FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.3

REACTIONS. 1=3-10-13, 3=3-10-13, 4=3-10-13 (size) Max Horz 1=-27(LC 6) Max Uplift 1=-15(LC 8), 3=-15(LC 8) Max Grav 1=71(LC 1), 3=71(LC 1), 4=105(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Structural wood sheathing directly applied or 3-11-8 oc purlins.

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

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818 Soundside Road

MILLIN in manut THILLING SEAL innin July 30,2024
