

RE: 1453-A - Tyre Residence

Site Information:

Customer Info: JBC Builders Project Name: Tyre Residence Model: . Lot/Block: . Subdivision: . Address: ., . City: . State: FL

MiTek, Inc. 16023 Swinalev Ridae Rd. Chesterfield, MO 63017 314.434.1200

Name Address and License # of Structural Engineer of Record, If there is one, for the building. Name: License #: Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2023/TPI2014 Wind Code: ASCE 7-22 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.7 Wind Speed: 140 mph Floor Load: N/A psf

This package includes 10 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal# | Truss Name | Date |
|--------|------------------------|------------|--------------------|
| 1 | T34408874 | BJ3 | 7/10/24 |
| 2 3 | T34408875 T34408876 | BJ5 BJ7 | 7/10/24 |
| 3 | T34408877 | CJ9 | 7/10/24 7/10/24 |
| 5 | T34408878 | EJ7 | 7/10/24 |
| 6 | T34408879 | G1 | 7/10/24 |
| 7 | T34408880 | G2 T1 | 7/10/24 |
| 8 9 | T34408881 T34408882 | T2 | 7/10/24 7/10/24 |
| 10 | T34408883 | T3 | 7/10/24 |



This item has been digitally signed and sealed by Lee, Julius, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by 19 Lumber, Inc..

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2025.

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.



July 10,2024

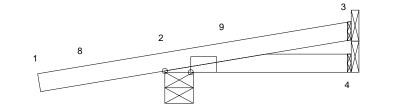
| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| 1453-A | BJ3 | Corner Jack | 4 | 1 | Job Reference (optional) | T34408874 |

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Wed Jul 10 13:05:58 ID:Z8jI0UFsRQvIX5cgi4c9qnzX0bI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f











Page: 1



| 3-0-0 | |
|-------|--|
| | |

Scale = 1:18.5

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

| | | | | - | | | | | | | | |
|-------------|--|------------------------|-----------------|-----------------------|--------------|-----------------|-------|-------|--------|-----|----------------------|---|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.54 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.07 | Vert(CT) | 0.00 | 7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 12 lb | FT = 20% |
| LUMBER | | | 7) Provide m | echanical connect | tion (by oth | ers) of truss | to | | | | | |
| TOP CHORD | 2x4 SP No.2 | | bearing pl | ate capable of with | nstanding 3 | 32 lb uplift at | joint | | | | | |
| BOT CHORD | 2x4 SP No.2 | | 3 and 250 | lb uplift at joint 2. | | | | | | | | |
| BRACING | | | LOAD CASE(| Standard | | | | | | | | |
| TOP CHORD | Structural wood she | eathing directly appli | ed or | | | | | | | | | |
| | 3-0-0 oc purlins. | | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | / applied or 10-0-0 o | IC . | | | | | | | | | |
| REACTIONS | · · · · | 3= Mechanical, 4= | | | | | | | | | | |
| | Mechanic Max Horiz 2=57 (LC | | | | | | | | | | | |
| | Max Uplift 2=-250 (LC | | | | | | | | | | | |
| | Max Grav 2=281 (L | , , , , | | | | | | | | | | |
| | (LC 3) | 0 1), 0 10 (20 1), 1 | - 12 | | | | | | | | | |
| FORCES | (lb) - Maximum Con | npression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | 1-2=0/20, 2-3=-205 | /21 | | | | | | | | | | |
| BOT CHORD | 2-4=-19/195 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Wind: AS | CE 7-22; Vult=140mpł | n (3-second gust) | | | | | | | | | | |
| | mph; TCDL=5.0psf; B | | | | | | | | | | | |
| | Enclosed; MWFRS (e | | | | | | | | | | | |
| | C-C Zone3 -2-0-5 to 0 | | -11 to | | | | | | | | This item ha | as heen |
| | he; cantilever left and | | | | | | | | | | digitally sig | |
| | it and right exposed;C /IWFRS for reactions s | | | | | | | | | | | |
| | plate grip DOL=1.60 | snown, Lumber | | | | | | | | | | ee, Julius, PE |
| | esigner / Project engi | neer responsible for | | | | | | | | | | indicated here. |
| | applied roof live load s | | | | | | | | | | Printed cop | ies of this |
| requireme | nts specific to the use | of this truss compo | nent. | | | | | | | | document a | are not considered |
| | has been designed for | | | | | | | | | | signed and | sealed and the |
| | load nonconcurrent w | | | | | | | | | | • | nust be verified |
| | s has been designed | | 0psf | | | | | | | | 0 | tronic copies. |
| | tom chord in all areas | | | | | | | | | | on any elec | a onic copies. |
| | all by 2-00-00 wide will | The bottle | om | | | | | | | | Julius Lee PE No.348 | |
| | any other members. | oint 2 SP No 2 | | | | | | | | | | ek USA FL Cert 6634 Rd. Chesterfield, MO 63017 |
| | irder(s) for truss to tru | | | | | | | | | | Date: | And Calester nelo, hito 0501/ |
| J Relei log | inder(a) ior indaa lo lit | 133 001116010115. | | | | | | | | | | |



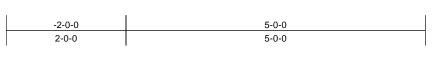


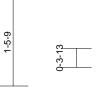
| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | |
|--------|-------|-------------|-----|-----|--------------------------|-----------|
| 1453-A | BJ5 | Corner Jack | 4 | 1 | Job Reference (optional) | T34408875 |

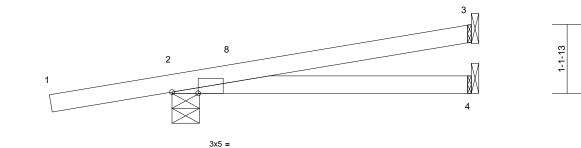
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12 2 Г

Page: 1







5-0-0 Scale = 1:19.2 Plate Offsets (X, Y): [2:0-5-4,Edge]

| | ∧, f). [2.0-5-4,⊏uge] | | | | | | | | | | | |
|--|---|---|--|---|--------------------------|--|-----------------------------|--------------------------|-------------------------------|--------------------------|---|--|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.25 1.25 YES FBC2023/TPI2014 | CSI TC BC WB Matrix-MP | 0.54 0.31 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.05 -0.05 0.00 | (loc) 4-7 4-7 2 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 18 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD | 5-0-0 oc purlins. Rigid ceiling directly bracing. | eathing directly applie / applied or 10-0-0 or | 7) Provide i bearing j 3, 268 lb ed or LOAD CASE | girder(s) for truss to nechanical connectio blate capable of withs uplift at joint 2 and 4 (S) Standard | on (by oth standing 8 | ers) of truss i 33 lb uplift at j | | | | | | |
| | (size) 2=0-5-8, Mechanic Max Horiz 2=77 (LC Max Uplift 2=-268 (I (LC 12) Max Grav 2=344 (Li (LC 3) | : 8) _C 8), 3=-83 (LC 12), | | | | | | | | | | |
| FORCES TOP CHORD BOT CHORD NOTES | Tension 1-2=0/20, 2-3=-184/ 2-4=-91/191 | | | | | | | | | | | |
| Vasd=108 II; Exp C; I zone and 4-11-4 zor vertical lef forces & M DOL=1.60 2) Building D verifying a requiremen | CE 7-22; Vult=140mph mph; TCDL=5.0psf; B Enclosed; MWFRS (e C-C Zone3 -2-0-5 to 0 ue; cantilever left and t and right exposed; C IWFRS for reactions s plate grip DOL=1.60 esigner / Project engin pplied roof live load sl nts specific to the use | CDL=5.0psf; h=25ft; nvelope) exterior (2) b-11-11, Zone1 0-11- right exposed ; end C for members and shown; Lumber neer responsible for hown covers rain loa of this truss compor | 11 to ding | | | | | | | | on the date Printed copi document a | ned and ee, Julius, PE indicated here. |
| chord live 4) * This trust on the bott 3-06-00 ta chord and | has been designed fo load nonconcurrent w s has been designed tom chord in all areas II by 2-00-00 wide will any other members. | ith any other live load for a live load of 20.0 where a rectangle fit between the botto |)psf | | | | | | | | signature m on any elect Julius Lee PE No.3486 MiTek Inc. DBA MiTe | ust be verified ronic copies. |
| 5) Bearings a | are assumed to be: , J | 0111 2 SP NO.2 . | | | | | | | | | 18207.AS | July 10.2024 |

July 10,2024



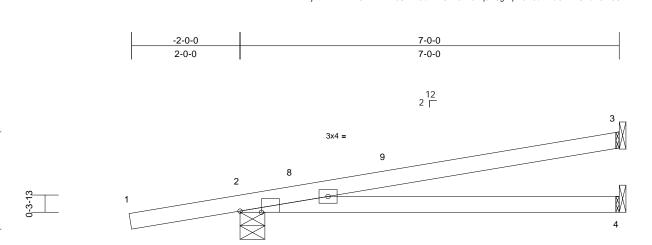
| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | T 04400070 |
|--------|-------|-------------|-----|-----|--------------------------|-------------------|
| 1453-A | BJ7 | Corner Jack | 4 | 1 | Job Reference (optional) | T34408876 |

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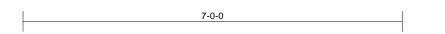


1-5-13

r ugo.



3x4 =



Scale = 1:21.3

1-9-9

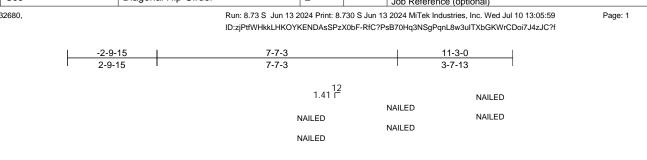
Plate Offsets (X, Y): [2:0-4-12,Edge]

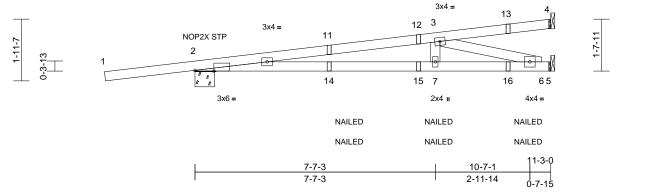
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|--|------------------------|------------------|------------------------|-------------|----------------|---------|-------|--------|-----|--|----------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.67 | Vert(LL) | 0.19 | 4-7 | >434 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.64 | Vert(CT) | -0.21 | 4-7 | >390 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 24 lb | FT = 20% |
| LUMBER | | | 6) Refer to a | rder(s) for truss to | truss con | nections. | | | | | | |
| TOP CHORD | 2x4 SP No.2 | | | echanical connection | | | to | | | | | |
| BOT CHORD | | | bearing pl | ate capable of withs | standing 1 | 30 lb uplift a | t joint | | | | | |
| BRACING | | | 3, 298 lb u | plift at joint 2 and 4 | lb uplift a | it joint 4. | | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | ed or LOAD CASE(| S) Standard | | | | | | | | |
| | 6-0-0 oc purlins. | | | | | | | | | | | |
| BOT CHORD | 0 0 , | applied or 10-0-0 o | с | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | | 3= Mechanical, 4= | | | | | | | | | | |
| | Mechanic Max Horiz 2=97 (LC | | | | | | | | | | | |
| | Max Uplift 2=-298 (LC | | 2) | | | | | | | | | |
| | 4=-4 (LC | | _), | | | | | | | | | |
| | Max Grav 2=417 (L0 | | 4=122 | | | | | | | | | |
| | (LC 3) | - // // | | | | | | | | | | |
| FORCES | (lb) - Maximum Corr | pression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | , | '114 | | | | | | | | | | |
| BOT CHORD | 2-4=-163/292 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| | CE 7-22; Vult=140mph | | - | | | | | | | | | |
| | 8mph; TCDL=5.0psf; B | | | | | | | | | | | |
| | Enclosed; MWFRS (er C-C Zone3 -2-0-5 to 0 | | | | | | | | | | This item ha | as been |
| | ne; cantilever left and i | | 1110 | | | | | | | | digitally sigr | ned and |
| | ft and right exposed;C- | | | | | | | | | | | ee, Julius, PE |
| | WWFRS for reactions s | | | | | | | | | | | indicated here. |
| | 0 plate grip DOL=1.60 | | | | | | | | | | | |
| | Designer / Project engir | | | | | | | | | | Printed copi | |
| | applied roof live load sh | | | | | | | | | | | re not considered |
| | ents specific to the use has been designed fo | | ient. | | | | | | | | • | sealed and the |
| | load nonconcurrent w | | ds | | | | | | | | signature m | ust be verified |
| | ss has been designed f | | | | | | | | | | on any elect | tronic copies. |
| | ttom chord in all areas | | | | | | | | | | - | |
| | all by 2-00-00 wide will | fit between the botto | m | | | | | | | | Julius Lee PE No.3486 MiTek Inc. DBA MiTe | |
| | any other members. | | | | | | | | | | 16023 Swingley Ridge Date: | Rd. Chesterfield, MO 63017 |
| 5) Bearings | are assumed to be: , J | oint 2 SP No.2 . | | | | | | | | | Date: | |
| | | | | | | | | | | | | Julv 10.2024 |

July 10,2024



| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | |
|--------|-------|---------------------|-----|-----|--------------------------|-----------|
| 1453-A | CJ9 | Diagonal Hip Girder | 2 | 1 | Job Reference (optional) | T34408877 |





Scale = 1:36.4

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

| | y 0 | Lagol | | | | | | - | | | | | | | | |
|--|---|---|--|---|--|--|---------------------------------|---|--|--|---------------------------------|--------------|--------------|--------------------------|---|--|
| BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS LUMBER TOP CHORD 2x4 SP No.2 6) Bearings are assumed to be: , Joint 2 SP No.2. BCAL 0.0 Code FBC2023/TPI2014 Matrix-MS WEBS 2x4 SP No.2 7) Refer to girder(s) for truss to truss to russ to noncetions. BCAL 0.0 Structural wood sheathing directly applied or 5-6-10 oc bracing. 7) Refer to girder(s) for truss to truss to russ to noncetions. BOT CHORD Structural wood sheathing directly applied or 5-6-10 oc bracing. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 2 and 270 lb uplift at joint 1.6 BOT CHORD Structural wood sheathing directly applied or 5-6-10 oc bracing. 7) NAILED' Indicates Girder: 3-16d (0.162' x 3.5') toe-nails per NDS guidelines. BOT CHORD (size) 2-0-7-6, 4- Mechanical, 5-m Mechanical, 5-m Mechanical 10 Nat Horiz Dead + Root Standard Max Horiz 2-107 (LC 4) Max Horiz 8-2107 (LC 8) Concentrated Loads (lb/fi) Max Grav 2-273 (L 8) -120 (Z 0.2-3-2045/1014, 3-4-27/18 Concentrated Loads (lb/fi) Netro 1-2-50/55 FORCES (lb) - Maximum Compression/Maximum Tension |) | 20.0 0.0 | Plat Lun | ite Grip DOL mber DOL | | 1.25 1.25 | | TC BC | 0.90 | Vert(LL) Vert(CT) | 0.21 -0.28 | 7-10 7-10 | >632 >479 | L/d 240 180 n/a | PLATES MT20 | GRIP 244/190 |
| TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING 70P CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins. BOT CHORD REACTIONS (size) 2=-0-7-6, 4= Mechanical, 5= Mechanical, 5= Mechanical Max Horiz 2=-107 (LC 4) Max Upit 2=-501 (LC 4), 4=-139 (LC 9), 5=-270 (LC 8) Max Grav 2=-727 (LC 8) Max Grav 2=-727 (LC 1), 4=172 (LC 1), 5=601 TOP CHORD 1:-2=0/20, 2:-3=-2045/1014, 3:-4=-27/18 BOT CHORD 2:-7-1052/2021, 6:-7-1052/2021, 5:6=0/0 NOTES 1 Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25f; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed; curves rain loading requirements specific to the use of this truss component. All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 pst bottom TOP CHORD 2: All plates unless otherwise indicated. Tor CHORD 4: All plates are MT20 plate supposite for a 10.0 pst bottom TOP CHORD 4: All plates are mt20 plate supposite for a 10.0 pst bottom TOP CHORD 4: All plates are mt20 plate supposite for a 10.0 pst bottom TOP CHORD 4: All plates are mt20 plates unless otherwise indicated. Tor CHORD 4: All plates are mt20 plates unless otherwise indicated. The truss has been designed for a 10.0 pst bottom | | | | • | 4 | |)23/TPI2014 | | 0.49 | 11012(01) | 0.03 | 5 | 11/a | n/a | Weight: 44 lb | FT = 20% |
| Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom | sh ctl 6, ani (L 1 (2 | od shea hs. lirectly 0-7-6, 4 chanica 107 (LC 501 (L0 270 (L0 225 (LC 21) m Com =-2045 21, 6-7 | 2 appli 4 appli 4 = Mec C 4) C 4), C 4), C 7), 2 appli 2 a | g directly ap ied or 5-6-10 echanical, 5- 4=-139 (LC 4=172 (LC 1 sion/Maximu 4, 3-4=-27/1 52/2021, 5-6 | 0 oc = : 9), 1), 5= um | 6 7 8 1 or 1 1 1 2601 | Bearings and | e assumed to be: der(s) for truss to chanical connectid e capable of withs lift at joint 2 and 2 dicates Girder: 3- DS guidelines. 0 CASE(S) sectior are noted as front 0 CASE(S) sectior are noted as front 0 Standard of Live (balanced ase=1.25 pads (lb/ft) 4=-60, 5-8=-20 ted Loads (lb) =-54 (F=-27, B=-2 14=-10 (F=-5, B=-2) | truss con on (by oth standing 1 270 lb uplii -16d (0.16 n, loads a t (F) or ba l): Lumber 27), 13=-1 | nections. ers) of truss 39 lb uplift a ft at joint 5. i2" x 3.5") to oplied to the ck (B). Increase=1 78 (F=-89, | at joint be- face .25, | | | | | |
| 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. | ; E (e) Ol ngi selle t v ed sas will | psf; BC RS (en ght exp r DOL= t engin oad sh ne use o unless ned for rent wit gned fo areas v de will f | CDL= nvelop posed =1.60 neer re hown of so of this so of this so of this so the or a 10 for a li where | =5.0psf; h=2: pe) exterior d; end vertic D plate grip responsible f covers rain is truss comp erwise indic D.0 psf botto ny other live l ive load of 2 e a rectangle | (2) cal lef for loadin poner ated. m loads 20.0ps e | ft ng nt. s. | | | | | | | | | on the date Printed copi document a signed and signature m on any elec: Julius Lee PE No.3486 MiTek Inc. DBA MIT | ned and ee, Julius, PE indicated here. es of this re not considered sealed and the ust be verified tronic copies. |

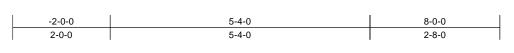
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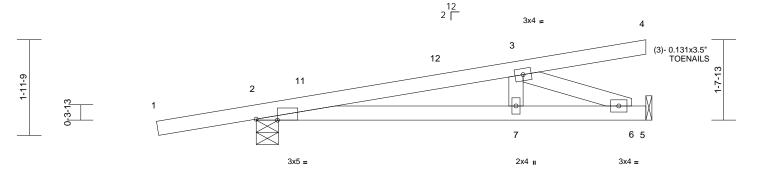
| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1453-A | EJ7 | Jack-Open | 9 | 1 | Job Reference (optional) | T34408878 |

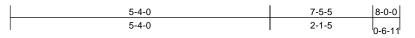
Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Wed Jul 10 13:05:59 ID:zjPtfWHkkLHKOYKENDAsSPzX0bF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

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Scale = 1:23.7

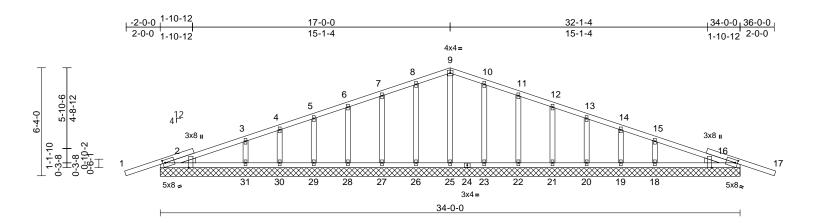
Plate Offsets (X, Y): [2:0-5-4,Edge]

| | | | | | | | | | | | 1 | |
|--|---|---|---|---|------|----------|-------|-------|--------|-----|---|-----------------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.70 | Vert(LL) | 0.03 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.34 | Vert(CT) | -0.06 | 7-10 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 31 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD | 2x4 SP No.2 2x4 SP No.2 | athing directly applied | bearing pla 2 and 140 l LOAD CASE(S | chanical connectio re capable of withs o uplift at joint 5.) Standard | | | | | | | | |
| BOT CHORD | 5-11-14 oc purlins. Rigid ceiling directly | | | | | | | | | | | |
| REACTIONS | bracing. (size) 2=0-5-8, \$ | 5= Mechanical | | | | | | | | | | |
| NEACTIONS | Max Horiz 2=03-0, 3 Max Horiz 2=104 (L0 Max Uplift 2=-312 (L Max Grav 2=454 (L0 | C 8) .C 8), 5=-140 (LC 12 | 2) | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | npression/Maximum | | | | | | | | | | |
| TOP CHORD | | 819. 3-4=-26/0 | | | | | | | | | | |
| BOT CHORD | | , | | | | | | | | | | |
| WEBS | 3-6=-874/962, 3-7=0 | , | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| Vasd=108 II; Exp C; zone and 8-0-0 zon- vertical let forces & M | CE 7-22; Vult=140mph 8mph; TCDL=5.0psf; B Enclosed; MWFRS (er C-C Zone3 -2-0-5 to 0 e; cantilever left and rig ft and right exposed;C- WWFRS for reactions s 0 plate grip DOL=1.60 | CDL=5.0psf; h=25ft nvelope) exterior (2) -11-11, Zone1 0-11- ght exposed ; end -C for members and | -11 to | | | | | | | | , | |
| 2) Building D verifying a | Designer / Project engir applied roof live load sh ents specific to the use | nown covers rain loa | ading | | | | | | | | Printed copi | |
| | s has been designed fo | | | | | | | | | | | sealed and the |
| | load nonconcurrent w | | ds. | | | | | | | | | ust be verified |
| This trus on the bot | ss has been designed f ttom chord in all areas | for a live load of 20.0 where a rectangle | Opsf | | | | | | | | • | tronic copies. |
| chord and 5) Bearings | all by 2-00-00 wide will any other members. are assumed to be: Jo | int 2 SP No.2 . | om | | | | | | | | Julius Lee PE No.3486 MiTek Inc. DBA MiTe 16023 Swingley Ridge Date: | |
| 6) Refer to g | girder(s) for truss to tru | iss connections. | | | | | | | | | | July 10,2024 |
| | | | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | |
|--------|-------|------------------------|-----|-----|--------------------------|-----------|
| 1453-A | G1 | Common Supported Gable | 1 | 1 | Job Reference (optional) | T34408879 |

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Wed Jul 10 13:05:59 ID:1KH7EqGUCk1c8FBsGo7OM_zX0bH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:67.5

| | ()()() [0.0 | 4 4 0 0 0 0 | | | 0.01.[40:0.0 | 0.5.1 | | | | | | | | | |
|---------------|-------------------------|-------------|---|---|---|--------------------------------------|------------|-------------------|------------------------|----------------------------|-------------|---------------------|---------------------------------------|--|--|
| Plate Offsets | (X, Y): [2:0 | -1-10,0-2-0 |), [2:0-3-8,Edge], [16 | 5:0-1-10,0 | -2-0], [16:0-3 | -8,Edgej | | 1 | | | | | 1 | | |
| Loading | | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL (roof) | | 20.0 | Plate Grip DOL | 1.25 | | TC | 0.98 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 | |
| TCDL | | 10.0 | Lumber DOL | 1.25 | | BC | 0.42 | Vert(CT) | n/a | - | n/a | 999 | | | |
| BCLL | | 0.0* | Rep Stress Incr | YES | | WB | 0.06 | Horz(CT) | 0.01 | 16 | n/a | n/a | | | |
| BCDL | | 10.0 | Code | FBC20 | 23/TPI2014 | Matrix-MS | | | | | | | Weight: 179 lb | FT = 20% | |
| LUMBER | 2x4 SP N | lo 2 | | т | OP CHORD | 1-2=0/50, 2-3=-´ 4-5=-48/134, 5-6 | , | , | | | | | en designed for a nconcurrent with | 10.0 psf bottom any other live loads. | |
| BOT CHORD | | | | | | 7-8=-82/330, 8-9 | , | , | | | | | | a live load of 20.0psf | |
| DTHERS | 2x4 SP N | | | | | 10-11=-82/330, | | | | | | | ord in all areas wh | | |
| VEDGE | Left: 2x4 | | | | | 12-13=-49/195, | | | | | | | | between the bottom | |
| | | 4 SP No.2 | | | | 14-15=-25/57, 1 | 5-16=-59/4 | 1, 16-17=0/50 | | | | | er members. | | |
| BRACING | · · · g· · · · =· · | | | В | OT CHORD | 2-31=-44/194, 3 | 0-31=-38/1 | 95, | | 10) All | bearings | s are as | ssumed to be SP | No.2 . | |
| FOP CHORD | Structura | wood she | athing directly applie | h | | 29-30=-38/195, | 28-29=-38 | /195, | | 11) Pro | vide me | chanic | al connection (by | others) of truss to | |
| BOT CHORD | | | applied or 10-0-0 or | | | 27-28=-38/195, | 26-27=-38 | /195, | | bea | ring pla | te capa | able of withstandi | ng 365 lb uplift at join | |
| | bracing. | g un oou) | | | | 25-26=-38/195, | | | | | | | | ft at joint 26, 94 lb | |
| REACTIONS | 0 | 2=34-0-0 | 16=34-0-0, 18=34-0 |)-0 | | 22-23=-38/195, | | | | upli | ft at join | t 27, 9 | 8 lb uplift at joint 2 | 28, 89 lb uplift at joint | |
| | (0120) | | 0, 20=34-0-0, 21=34 | | | 20-21=-38/195, | | | | | | | | lift at joint 31, 97 lb | |
| | | | 0, 23=34-0-0, 25=34 | -0-0 | | 18-19=-38/195, | | | | | | | | 22, 98 lb uplift at joint | |
| | | | 0, 27=34-0-0, 28=34 | | VEBS | 9-25=-121/0, 8-2 | | | 94, | | | | | lift at joint 19 and 81 | |
| | | | 0, 30=34-0-0, 31=34 | | | 6-28=-120/193, | | | | | plift at jo | | | | |
| | Max Horiz | 2=158 (L0 | C 12) | | | 4-30=-112/205, 10-23=-129/195 | | | | LOAD | CASE(S |) Sta | ndard | | |
| | Max Uplift | 2=-365 (L | .C 8), 16=-377 (LC 9 |), | | 12-21=-120/193 | | | | | | | | | |
| | | 18=-81 (L | .C 13), 19=-152 (LC | 9), | | 14-19=-112/205 | | | | | | | | | |
| | | | .C 13), 21=-98 (LC 9 | | OTEO | 14-13-112/203 | , 13-101 | 13/230 | | | | | | | |
| | | 22=-95 (L | .C 13), 23=-97 (LC 1 | 3), | | d an efficie le este le | | | | | | | | | |
| | | | .C 12), 27=-94 (LC 1 | | , | ed roof live loads h | ave been | considered for | | | | | | | |
| | | | .C 8), 29=-89 (LC 12 | | this design | ı. CE 7-22; Vult=140ı | mnh (2 aa | and quat) | | | | | | | |
| | | | (LC 8), 31=-70 (LC 1 | ∠) | | mph; TCDL=5.0ps | | | C ot | | | | | | |
| | Max Grav | | C 1), 16=409 (LC 1), | | | Enclosed; MWFRS | | | Jai. | | | | This item ha | s been | |
| | | | LC 3), 19=165 (LC 2 | | | C-C Zone3 zone; (| | | | | | | digitally sign | ed and | |
| | | | LC 1), 21=161 (LC 2 | | | end vertical left ar | | | | | | | | e, Julius, PE | |
| | | | LC 1), 23=169 (LC 2 | | | and forces & MWF | | | | | | | , | indicated here. | |
| | | | _C 22), 26=169 (LC 2 _C 1), 28=161 (LC 2 | | | OL=1.60 plate grip | | | | | | | | | |
| | | | LC 1), 28=161 (LC 2) | | | igned for wind loa | | | s | | | | Printed copi | | |
| | | 31=194 (l | | 0), | | studs exposed to v | | | | | | | document a | re not considere | |
| ORCES | (lb) Max | | pression/Maximum | | see Stand | ard Industry Gable | e End Deta | ils as applicable | e, | | | | signed and | sealed and the | |
| ORCES | (ID) - IVIA) Tension | | ipression/iviaximum | | or consult | qualified building | designer a | s per ANSI/TPI | 1. | | | | | ust be verified | |
| | 161121011 | | | 4 | | esigner / Project e | | | on any electronic copi | | | | | | |
| | | | | | | pplied roof live loa | | | | | | | on any elect | rome copies. | |
| | | | | | requirements specific to the use of this truss component. | | | | | It. Julius Lee PE No.34869 | | | | | |
| | | | 5 | All plates are 2x4 MT20 unless otherwise indicated. | | | | | | | | MiTek Inc. DBA MiTe | k USA FL Cert 6634 | | |
| | | | | 6 | | virga continuqua h | ottom ohou | dhaaring | | | | | 16023 Swingley Ridge | Rd. Chesterfield, MO 63017 | |

Gable requires continuous bottom chord bearing.

Gable studs spaced at 2-0-0 oc.

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 10,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

6)

7)

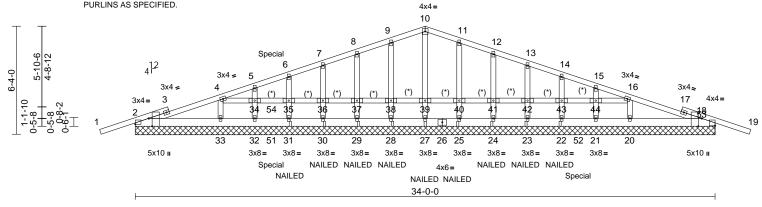
| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | |
|--------|-------|---------------|-----|-----|--------------------------|-----------|
| 1453-A | G2 | Common Girder | 1 | 1 | Job Reference (optional) | T34408880 |

Run: 8,73 S Jun 13 2024 Print: 8,730 S Jun 13 2024 MiTek Industries, Inc. Wed Jul 10 13:06:00 ID:1KH7EqGUCk1c8FBsGo7OM_zX0bH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



(*) TOP CHORD MUST BE BRACED BY END JACKS, ROOF DIAPHRAGM, OR PROPERLY CONNECTED PURLINS AS SPECIFIED.



Scale = 1:67.5



| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | |
|--------|-------|---------------|-----|-----|--------------------------|-----------|
| 1453-A | G2 | Common Girder | 1 | 1 | Job Reference (optional) | T34408880 |

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2, 267 lb uplift at joint 18, 134 lb uplift at joint 27, 246 lb uplift at joint 28, 254 lb uplift at joint 29, 206 lb uplift at joint 30, 459 lb uplift at joint 31, 270 lb uplift at joint 32, 196 lb uplift at joint 33, 246 lb uplift at joint 25, 254 lb uplift at joint 24, 205 lb uplift at joint 23, 427 lb uplift at joint 22, 232 lb uplift at joint 21, 190 lb uplift at joint 20, 233 lb uplift at joint 2 and 267 lb uplift at joint 18.
- 12) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toenails per NDS guidelines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 573 lb down and 284 lb up at 8-0-0, and 573 lb down and 284 lb up at 26-0-0 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- 14) Special hanger(s) or other connection device(s) shall be provided at 8-0-0 from the left end sufficient to connect trusses to front face of top chord, skewed 45.0 deg. to the left, sloping -6.7 deg down.. The design/selection of such special connection device(s) is the responsibility of others.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft) Vert: 1-10=-60, 10-19=-60, 45-53=-20

Concentrated Loads (lb)

Vert: 27=-286 (F), 28=-286 (F), 29=-286 (F), 30=-286 (F), 31=-286 (F), 25=-286 (F), 24=-286 (F), 23=-286 (F), 22=-286 (F), 51=-573 (F), 52=-573 (F), 54=-175 (F) Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Wed Jul 10 13:06:00 Page: 2 ID:1KH7EqGUCk1c8FBsGo7OM_zX0bH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | |
|--------|-------|------------|-----|-----|--------------------------|-----------|
| 1453-A | T1 | Common | 9 | 1 | Job Reference (optional) | T34408881 |

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Wed Jul 10 13:06:00 ID:VWrVRAG6z29TmOm2pVfdvCzX0bG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



<u>| -2-0-0</u> | 2-0-0 36-0-0 5-10-5 11-5-2 17-0-0 22-6-14 28-1-11 34-0-0 5-10-5 5-6-14 5-6-14 5-6-14 5-6-14 5-10-5 2-0-0 4x4 = 6 4¹² 3x4 **≈** 3x4 **=** 5 ²³ ²⁴ 7 3x4 **≈** 3x4 🚅 4 8 2x4 🍫 2x4、 6-7-11 6-2-1 3 9 25 10 -9-1 11 Ш × 15 14 13 12 3x4= 4x4 =3x8= 3x4= 3x8= 3x8= 8-7-11 17-0-0 25-4-5 34-0-0 8-7-11 8-4-5 8-4-5 8-7-11

Scale = 1:65.8

Plate Offsets (X, Y): [2:Edge,0-0-7], [10:Edge,0-0-7]

| | ,, .). [<u></u> go,o o .], | [| | | | | | | | | | | |
|---|--|--|---|--|--|--|---|---------------------------------------|-------------------------------|-------------------------------|--|--|------------------------------------|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.25 1.25 YES FBC2023 | 3/TPI2014 | CSI TC BC WB Matrix-MS | 0.76 0.48 0.61 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.31 -0.49 0.11 | (loc) 13-15 12-13 10 | l/defl >999 >833 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 165 lb | GRIP 244/190 FT = 20% |
| | 2x4 SP No.2 2x4 SP 2400F 2.0E 2x4 SP No.2 Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood she 2-3-3 oc purlins. Rigid ceiling directly bracing. (size) 2=0-6-0, 1 Max Horiz 2=166 (LC Max Uplift 2=-743 (L Max Grav 2=1483 (I | applied or 7-1-10 oc 10=0-6-0 C 12) C 8), 10=-743 (LC 9) | 4) 5) d or 6) 7) LO | verifying app requirements This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an All bearings a Provide mech bearing plate | igner / Project englied roof live load is specific to the us s been designed ad nonconcurrent has been designed n chord in all area yo 2-00-00 wide w yo other members are assumed to be hanical connection e capable of withst uplift at joint 10. Standard | shown c se of this for a 10.0 with any d for a liv s where ill fit betv e SP 240 n (by oth | overs rain loa truss compo 0 psf bottom other live loa e load of 20. a rectangle ween the bott 10F 2.0E . ers) of truss | ading ment. ads. Opsf tom | | | | | |
| FORCES | (lb) - Maximum Com | | ') | | | | | | | | | | |
| TOP CHORD | Tension 1-2=0/39, 2-3=-3239 5-6=-2154/978, 6-7= 7-9=-2962/1226, 9-1 10-11=0/39 2-15=-1324/3008, 13 | 9/1388, 3-5=-2962/12 2154/978, 0=-3239/1388, | 225, | | | | | | | | | | |
| WEBS | 12-13=-957/2564, 10 6-13=-369/1031, 7-1 7-12=-95/444, 9-12= 5-13=-733/493, 5-15 | 0-12=-1183/3008 3=-733/493, 314/321, | 1/321 | | | | | | | | | This item ha digitally sign | ed and |
| this design Wind: ASC Vasd=108 II; Exp C; I zone and 17-0-0, Zo 36-0-9 zon vertical left forces & M | ed roof live loads have DE 7-22; Vult=140mph mph; TCDL=5.0psf; Bu Enclosed; MWFRS (er C-C Zone3 -2-0-9 to 1- ine2 17-0-0 to 21-9-11 ne; cantilever left and r and right exposed;C- WFRS for reactions si plate grip DOL=1.60 | | | | | | | | | | on the date i Printed copie document at signed and s signature mu on any elect Julius Lee PE No.34867 MITEK Inc. DBA MITE | e not considered sealed and the ust be verified ronic copies. | |

July 10,2024



| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| 1453-A | T2 | Roof Special | 6 | 1 | Job Reference (optional) | T34408882 |

Run: 8,73 S Jun 13 2024 Print: 8,730 S Jun 13 2024 MiTek Industries, Inc. Wed Jul 10 13:06:00 ID:7_?Lf8B9kISU4VXd28fRirzX0kP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1

-2-0-0 31-3-12 11-5-2 17-0-0 20-10-4 26-0-4 34-0-0 36-0-0 5-10-5 2-0-0 5-10-5 5-6-14 5-6-14 3-10-4 5-2-0 5-3-8 2-8-4 2-0-0 4x5= 6 412 41 2x4 🛛 3x4 🚅 7 32 33 3x4 = 5 7x8≈ 4 2x4、 8 6-9-13 7x12 u 6-2-1 30 75 3 Ð 2x4 II 910 3 34 11 15 ģ⊥ ь 17 12 2x4 II 20 19 18 143 3x4 II 3x4= 4x5= 5x10= 4x12= 3x8= 4x12 =6x12= ^{3x6} 134-0-0 31-3-12 7-2-5 14-1-2 21-0-0 26-1-2 31-0-0 7-2-5 0-3-122-8-4 6-10-14 6-10-14 5-1-2 4-10-14

Scale = 1:65.8

11, nail 2 row(s) at 3" o.c. for 4-7-7.

| Scale = 1.05.0 | | | | | | | | | | | | | |
|-----------------|----------------------------------|-------------------------|----------|---|--|--------------|---------------|--------------------|-------|--------|-----|-----------------------|--------------------|
| Plate Offsets (| X, Y): [2:Edge,0-0-7] | , [8:0-4-0,0-3-4], [9:0 | -10-4,Ec | ge], [11:1-0 |)-0,0-1-4], [11:0-0-4,E | Edge], [16:0 | 0-5-12,0-2-4] | | | | | 1 | |
| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | | TC | 0.75 | Vert(LL) | 0.53 | 15-26 | >770 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | | BC | 0.77 | Vert(CT) | -0.84 | 15-26 | >488 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.86 | Horz(CT) | 0.33 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2 | 023/TPI201 | 4 Matrix-MS | | | | | | | Weight: 205 lb | FT = 20% |
| | | | | | nced roof live loads h | | | ~r | | | | | |
| | Out OD No 0 *Eveen | | | Unbala this de: | | lave been | | JI | | | | | |
| TOP CHORD | 2x4 SP No.2 *Excep | | | | ASCE 7-22; Vult=140 | mph (3-60) | cond quet) | | | | | | |
| BOT CHORD | 2x4 SP No.2 *Excep 2400F 2.0E | 01° 2-19,16-9:2x4 SP | | | 08mph; TCDL=5.0ps | | | t [.] Cat | | | | | |
| WEBS | 2x4 SP No.2 | | | | C; Enclosed; MWFR | | | | | | | | |
| LBR SCAB | 11-8 SP 2400F 2.0 | = one side | | <i>'</i> | nd C-C Zone3 -2-0-9 | · · | , , , | , | | | | | |
| WEDGE | Left: 2x4 SP No.3 | | | | Zone2 17-0-0 to 21- | | | | | | | | |
| TEDOL | Right: 2x4 SP No.2 | | | | zone; cantilever left | | | b | | | | | |
| BRACING | 1.1g.1.1 2.7.1 01 1.1012 | | | vertical | left and right expose | d;C-C for r | nembers and | ł | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | ad or | forces | & MWFRS for reactio | ns shown; | Lumber | | | | | | |
| | 2-3-11 oc purlins. | ating areaty applie | 20 01 | | .60 plate grip DOL=1 | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 5-10-2 or | 0 | | g Designer / Project e | | | | | | | | |
| | bracing. | | | | g applied roof live loa | | | | | | | | |
| REACTIONS | • | 11=0-6-0 | | | ments specific to the | | | nent. | | | | | |
| | Max Horiz 2=-172 (L | | | | iss has been designe | | | | | | | | |
| | Max Uplift 2=-743 (L | | 0 | | ve load nonconcurre | | | | | | | | |
| | Max Grav 2=1483 (I | | , | | russ has been desigr | | | Upst | | | | | |
| FORCES | (lb) - Maximum Com | | ., | | bottom chord in all ar tall by 2-00-00 wide | | | om | | | | | |
| TORCES | Tension | ipression/maximum | | | and any other membe | | veen the bott | Uni | | | | | |
| TOP CHORD | 1-2=0/39, 2-3=-3236 | 6/1362 3-5=-3065/13 | 310 | | are assumed to be | | P 2400F 2 0F | = | | | | | |
| | 5-6=-2457/1097, 6-7 | | 510, | | I SP No.2 . | . Joint 2 J | 24001 2.01 | _ , | | | | | |
| | 7-9=-4684/1873, 9-1 | | | | mechanical connect | tion (by oth | ers) of truss | to | | | | | |
| | 10-11=-998/393, 11 | | | , | plate capable of with | | , | | | | | | |
| BOT CHORD | 2-20=-1297/3004, 1 | 8-20=-1027/2572, | | | 45 lb uplift at joint 11 | | | , | | | | This item ha | s been |
| | 17-18=-52/203, 16-1 | 17=0/123, 7-16=-254 | /267, | | E(S) Standard | | | | | | | digitally sign | ed and |
| | 15-16=-1661/4547, | 9-15=-1661/4553, | | | | | | | | | | | e, Julius, PE |
| | 13-14=0/0, 11-13=-2 | 204/580 | | | | | | | | | | | |
| WEBS | 3-20=-263/276, 5-20 | | | | | | | | | | | | indicated here. |
| | 5-18=-567/435, 6-18 | | | | | | | | | | | Printed copi | |
| | 16-18=-649/1911, 6 | | | | | | | | | | | document a | re not considere |
| | 8-16=-1603/747, 8-1 | 15=0/313, | | | | | | | | | | signed and | sealed and the |
| _ | 10-13=-135/400 | | | | | | | | | | | 0 | ust be verified |
| NOTES | | | | | | | | | | | | | ronic copies. |
| | 3-4-15 scab 8 to 11, fro | | | | | | | | | | | on any elect | rome copies. |
| | E with 2 row(s) of 10d | | | | | | | | | | | Julius Lee PE No.3486 | 9 |
| | o.c.except : starting a | | JIIIC | | | | | | | | | MiTek Inc. DBA MiTe | k USA FL Cert 6634 |

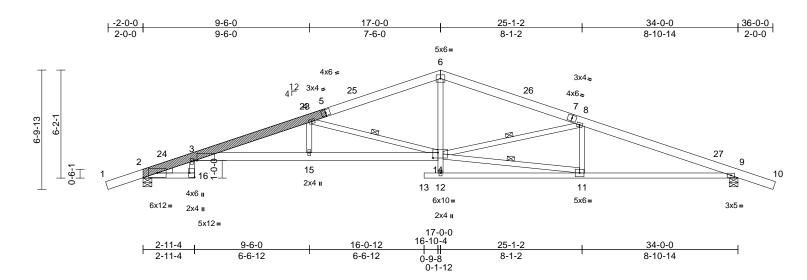
MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

July 10,2024



| Job | Truss | Truss Type | Qty | Ply | Tyre Residence | |
|--------|-------|--------------|-----|-----|--------------------------|-----------|
| 1453-A | Т3 | Roof Special | 8 | 1 | Job Reference (optional) | T34408883 |

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Wed Jul 10 13:06:00 ID:VWrVRAG6z29TmOm2pVfdvCzX0bG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:65.8

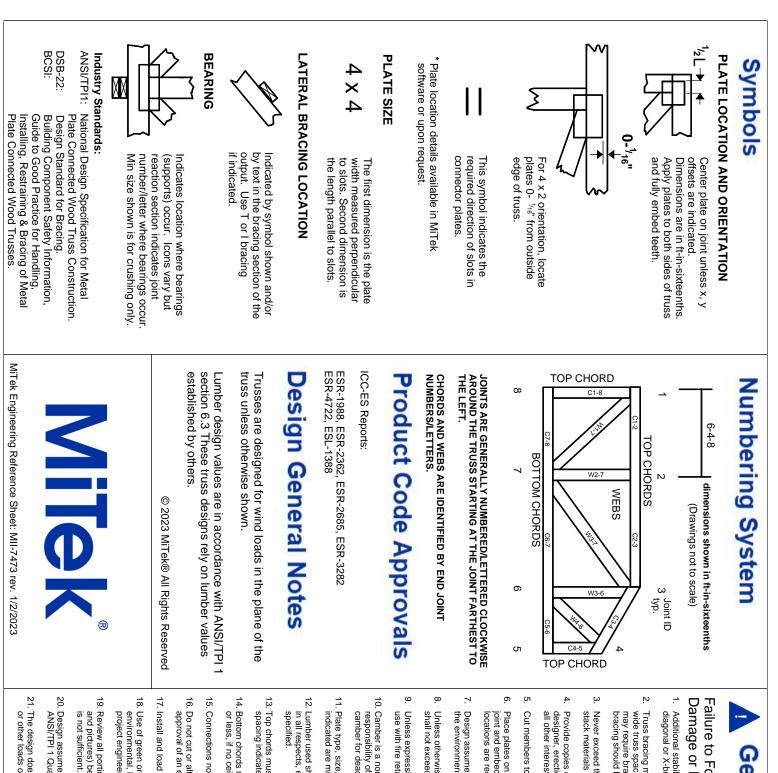
Plate Offsets (X, Y): [3:0-1-12,Edge], [14:0-3-8,0-3-12], [16:Edge,0-3-8]

| | | | . 0, | | 1 | | | | | | | | |
|----------------------------|---|--|--------------------|---|---|-----------------------|----------------------------|-------|-------|-----------------------------------|-----|--|-----------------|
| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | | TC | 0.60 | Vert(LL) | 0.54 | 3-15 | >760 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | | BC | 1.00 | Vert(CT) | -0.81 | 3-15 | >506 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | | WB | 0.67 | Horz(CT) | 0.35 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC202 | 3/TPI2014 | Matrix-MS | | | | | | | Weight: 235 lb | FT = 20% |
| LUMBER TOP CHORD | 2x6 SP No.2 *Excep 2.0E | ot* 1-5:2x6 SP 2400F | 3) | Vasd=108m | 7-22; Vult=140m ph; TCDL=5.0psf; iclosed; MWFRS | BCDL=5 | .0psf; h=25f | | | | | | |
| BOT CHORD | 2x4 SP No.2 *Excep 2.0E, 3-14:2x6 SP 2 | | F | zone and C- 17-0-0, Zone | C Zone3 -2-0-14 2 17-0-0 to 21-9- | to 1-3-15 11, Zone | Zone1 1-3- 1 21-9-11 to | 15 to | | | | | |
| WEBS | 2x4 SP No.2 | | | | e; cantilever left a | | | | | | | | |
| LBR SCAB WEDGE | 2-5 SP 2400F 2.0E Left: 2x4 SP No.2 | one side | | forces & MW | Ind right exposed /FRS for reaction | s shown; | | 1 | | | | | |
| BRACING | | | 4 | | late grip DOL=1.6 | | | | | | | | |
| TOP CHORD | Structural wood she 3-8-9 oc purlins. | athing directly applie | d or ⁴⁾ | verifying app | signer / Project en plied roof live load | shown c | overs rain lo | ading | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 2-2-0 oc | 5) | This truss ha | s specific to the u as been designed | for a 10. |) psf bottom | | | | | | |
| WEBS | | 4-14, 11-14, 8-14 | | | ad nonconcurrent | | | | | | | | |
| | , , , | | | | 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 7) Bearings are assumed to be: Joint 2 SP 2400F 2.0E , | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | , | Joint 9 SP N | | | | | | | | | |
| TOP CHORD | 1-2=0/39, 2-3=-1301 4-6=-2734/1143, 6-8 8-9=-3249/1319, 9-1 | 3=-2673/1108, | 4, | bearing plate capable of withstanding 742 lb uplift at joint 2 and 742 lb uplift at joint 9. | | | | | | | | | |
| BOT CHORD | 2-16=-395/952, 3-16 3-15=-1824/4489, 14 | 6=-277/675, | | AD CASE(S) | Standard | | | | | | | This item hadigitally sign | |
| WEBS | 4-15=-14/504, 4-14= 8-11=-202/235, 12-1 6-14=-392/1247, 11- 8-14=-720/529 | 4=0/179, | | | | | | | | | | on the date Printed copi | indicated here. |
| 2400F 2.0 | 11-0-14 scab 2 to 5, fro E with 2 row(s) of 10d o.c.except : starting at | (0.131"x3") nails | int | signed and sealed a signature must be v | | | | | | sealed and the ust be verified | | | |
| 2, nail 2 ro from end a | ow(s) at 2 ["] o.c. for 2-0- at joint 2, nail 2 row(s) ed roof live loads have | 0; starting at 9-0-14 at 7" o.c. for 2-0-0. | | | | | | | | | | Julius Lee PE No.3486 MiTek Inc. DBA MiTel 16023 Swingley Ridge I Date: | |
| - | | | | | | | | | | | | | |

July 10,2024

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.