

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

RE: 3358905 - BLAKE - BULLARD

Site Information:

Customer Info: BLAKE CONSTRUCTION Project Name: Bullard Model: Custom Lot/Block: N/A Address: TBD, TBD City: Columbia Cty

Subdivision: N/A

MiTek USA, Inc. 16023 Swinglev Ridge Rd Chesterfield, MO 63017

State: FL

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: FBC2020/TPI2014 Wind Code: ASCE 7-16 Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.5 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 9 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 | T29320180 | CJ01 | 12/5/22 |
| 2 | T29320181 | CJ03 | 12/5/22 |
| 3 | T29320182 | CJ05 | 12/5/22 |
| 4 | T29320183 | EJ01 | 12/5/22 |
| 5 | T29320184 | HJ10 | 12/5/22 |
| 6 | T29320185 | T01 | 12/5/22 |
| 7 | T29320186 | T02 | 12/5/22 |
| 8 | T29320187 | T03 | 12/5/22 |
| 9 | T29320188 | T04 | 12/5/22 |



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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

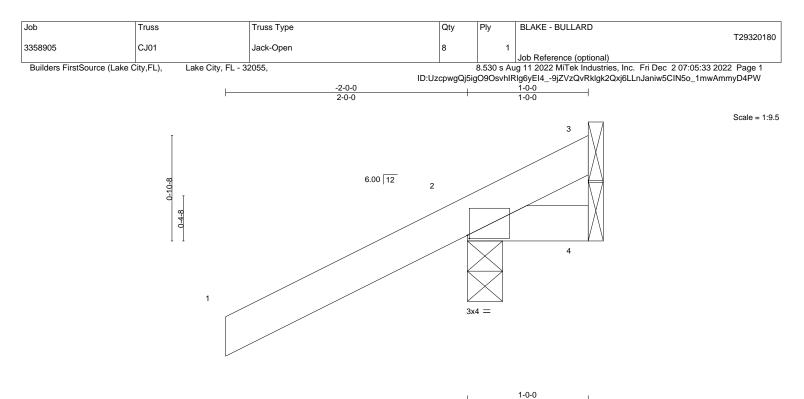
Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2023.

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.



December 5,2022



| Plate Offsets (X,Y) [2 | 2:0-0-3,0-0-5] | | 1 | | 1-0-0 | I | | |
|------------------------|-----------------------|-----------|--------------|----------|--------|-----|--------------|----------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.25 | TC 0.25 | Vert(LL) 0.0 | () | >999 | 240 | MT20 | 244/190 |
| TCDL 7.0 | Lumber DOL 1.25 | BC 0.06 | Vert(CT) 0.0 | 0 7 | >999 | 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) 0.0 | 0 2 | n/a | n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | Matrix-MP | | | | | Weight: 7 lb | FT = 20% |

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=46(LC 12) Max Uplift 3=-27(LC 1), 2=-102(LC 12), 4=-46(LC 1) Max Grav 3=16(LC 16), 2=254(LC 1), 4=29(LC 16)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; 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.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 102 lb uplift at joint 2 and 46 lb uplift at joint 4.

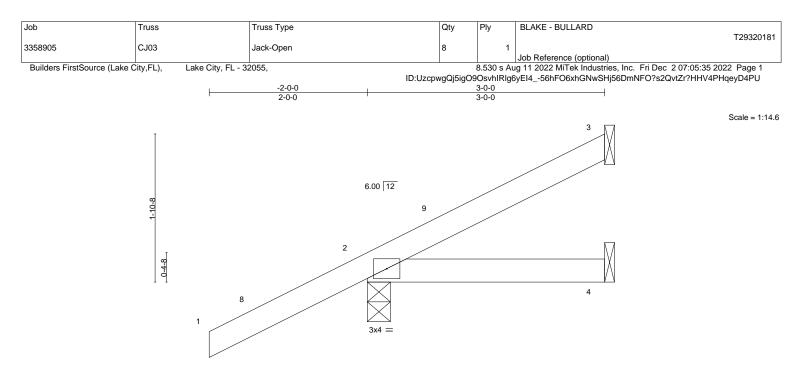
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Philip J. O'Regan PE. No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



| | | | | 3-0-0 | | | | |
|---------------|-----------------------|-----------|----------|-----------|--------|-----|---------------|----------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.25 | TC 0.25 | Vert(LL) | -0.00 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL 7.0 | Lumber DOL 1.25 | BC 0.07 | Vert(CT) | -0.01 4-7 | >999 | 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) | 0.00 3 | n/a | n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | Matrix-MP | . , | | | | Weight: 13 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

3-0-0

Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

LUMBER-

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=80(LC 12)

Max Uplift 3=-31(LC 12), 2=-76(LC 12) Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(LC 3)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,

GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone;C-C for

members and forces & MWFRS for reactions shown; 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.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3 and 76 lb uplift at joint 2.

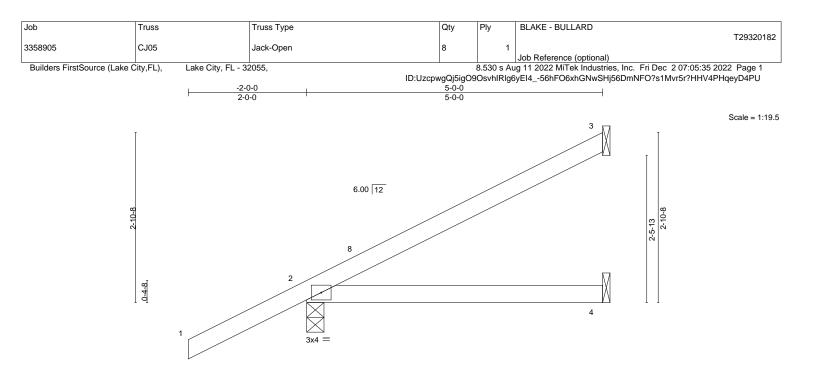
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| | | | 5-0-0 | | | | |
|---------------|----------------------|-----------|----------------|--------------|-----|---------------|----------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in | (loc) l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.25 | TC 0.26 | Vert(LL) 0.03 | 4-7 >999 | 240 | MT20 | 244/190 |
| TCDL 7.0 | Lumber DOL 1.25 | BC 0.23 | Vert(CT) -0.05 | 4-7 >999 | 180 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) 0.00 | 3 n/a | n/a | | |
| BCDL 10.0 | Code FBC2020/TPI2014 | Matrix-MP | | | | Weight: 19 lb | FT = 20% |

LUMBER-

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=114(LC 12)

Max Uplift 3=-64(LC 12), 2=-80(LC 12) Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

Wax Olav 3=100(EC 1), 2=313(EC 1), 4=07(EC 3)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,

GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone;C-C for

members and forces & MWFRS for reactions shown; 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.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 3 and 80 lb uplift at joint 2.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 5,2022

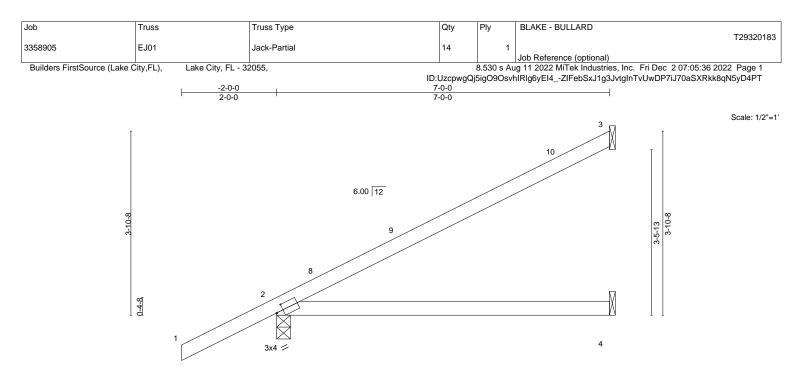


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BRACING-TOP CHORD BOT CHORD

500

Structural wood sheathing directly applied or 5-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



| | | | 7-0-0 7-0-0 | |
|----------------------------|---------------------------------------|------------------------|--|-----------------------------|
| Plate Offsets (X | () [2:0-1-13,0-1-8] | | | |
| LOADING (psf) TCLL 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.25 | CSI. TC 0.60 | DEFL. in (loc) I/defl L/d Vert(LL) 0.10 4-7 >876 240 | PLATES GRIP MT20 244/190 |
| FCDL 7.0 BCLL 0.0 | Lumber DOL 1.25 | BC 0.51 WB 0.00 | Vert(CT) -0.21 4-7 >373 240 Horz(CT) 0.01 2 n/a n/a | 101720 244/190 |
| BCDL 10.0 | Code FBC2020/TPI2014 | Matrix-MS | | Weight: 26 lb FT = 20% |

LUMBER-

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

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=144(LC 12) Max Uplift 3=-84(LC 12), 2=-90(LC 12)

Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; 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.
- 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 3 and 90 lb uplift at joint 2.

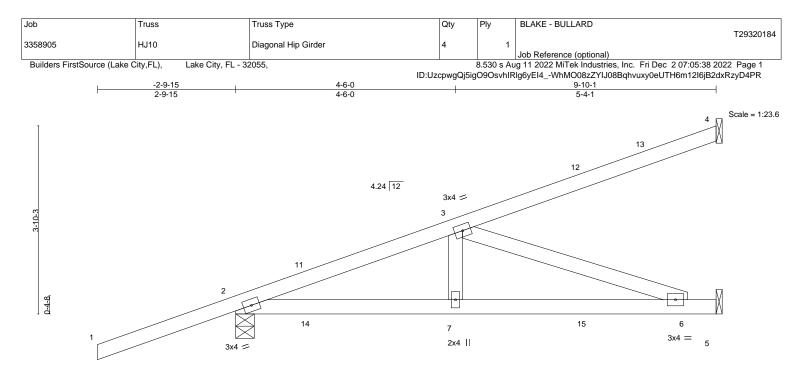
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| | | 4-6-0 4-6-0 | | 9-9-5 5-3-5 | <u>9-10-1</u> 0-0-12 |
|---|---|---|---|---|------------------------------------|
| LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrNOCodeFBC2020/TPI2014 | CSI. DEFL TC 0.60 Vert(I BC 0.66 Vert(0 WB 0.32 Horz(1) Matrix-MS Horz(1) Horz(1) | L) -0.06 6-7 >999 CT) -0.15 6-7 >807 | L/d PLATES 240 MT20 180 n/a Weight: 44 lb | GRIP 244/190 FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD WEBS

2x4 SP No.2 2x4 SP No.3

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical Max Horz 2=160(LC 4) Max Uplift 4=-79(LC 4), 2=-168(LC 4), 5=-42(LC 8) Max Grav 4=152(LC 1), 2=463(LC 1), 5=264(LC 3)

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

TOP CHORD 2-3=-676/145

BOT CHORD 2-7=-183/583. 6-7=-183/583

WEBS 3-7=0/258, 3-6=-618/193

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,

GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 4, 168 lb uplift at joint 2 and 42 lb uplift at joint 5.

7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, 56 lb down and 103 lb up at 1-6-1, 62 lb down and 33 lb up at 4-4-0, 62 lb down and 33 lb up at 4-4-0, and 41 lb down and 75 lb up at 7-1-15, and 41 lb down and 75 lb up at 7-1-15 on top chord, and 21 lb down and 74 lb up at 1-6-1, 21 lb down and 74 lb up at 1-6-1, 24 lb down and 2 lb up at 4-4-0, 24 lb down and 2 lb up at 4-4-0, and 42 lb down at 7-1-15, and 42 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

8) 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 (plf) Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 7=5(F=2, B=2) 11=50(F=25, B=25) 12=-64(F=-32, B=-32) 14=70(F=35, B=35) 15=-49(F=-24, B=-24)

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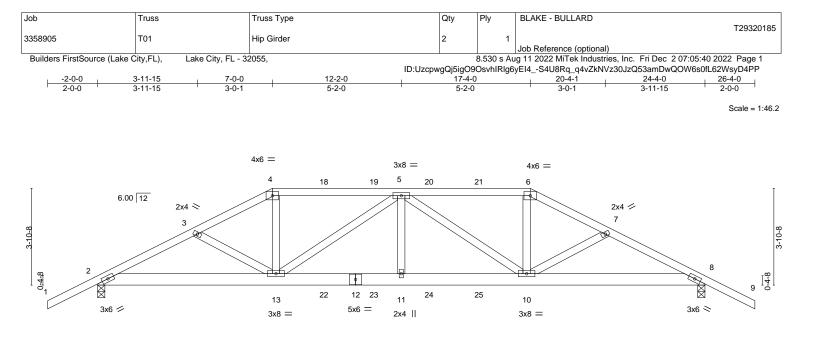
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

December 5,2022



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| | 7-0-0 7-0-0 | 12-2-0 5-2-0 | 17-4-0 5-2-0 | | 24-4-0 7-0-0 | |
|---|--|-------------------------------------|--|---|---|----------|
| LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0 Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr N Code FBC2020/TPI201 | 5 TC 0.76 5 BC 0.73 0 WB 0.68 | DEFL. in (loc) Vert(LL) -0.15 11 Vert(CT) -0.29 11 Horz(CT) 0.09 8 | l/defl L/d >999 240 >999 180 n/a n/a | PLATES GRIP MT20 244/19 Weight: 144 lb FT = | 0 20% |

TOP CHORD

BOT CHORD

JMBER-

TOP CHORD 2x4 SP No 2 2x6 SP No.2 BOT CHORD WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=67(LC 31) Max Uplift 2=-477(LC 8), 8=-489(LC 9) Max Grav 2=1836(LC 1), 8=1868(LC 1)

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

- TOP CHORD 2-3=-3476/880, 3-4=-3311/837, 4-5=-2984/780, 5-6=-3045/802, 6-7=-3382/863, 7-8=-3546/906
- BOT CHORD 2-13=-777/3072, 11-13=-891/3746, 10-11=-891/3746, 8-10=-733/3135
- WFBS 4-13=-178/1080, 5-13=-985/309, 5-11=0/468, 5-10=-897/254, 6-10=-148/1037

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 6) will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 477 lb uplift at joint 2 and 489 lb uplift at joint 8

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 81 lb up at 12-2-0, 106 lb down and 88 lb up at 13-3-4, and 106 lb down and 88 lb up at 15-3-4, and 229 lb down and 174 lb up at 17-4-0 on top chord, and 293 lb down and 70 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 12-2-0, 85 lb down at 13-3-4, and 85 lb down at 15-3-4, and 293 lb down and 70 lb up at 17-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 6-9=-54, 2-8=-20

Continued on page 2

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Structural wood sheathing directly applied or 2-6-15 oc purlins.

Rigid ceiling directly applied or 7-10-5 oc bracing.

December 5,2022



Provide adequate drainage to prevent water ponding.

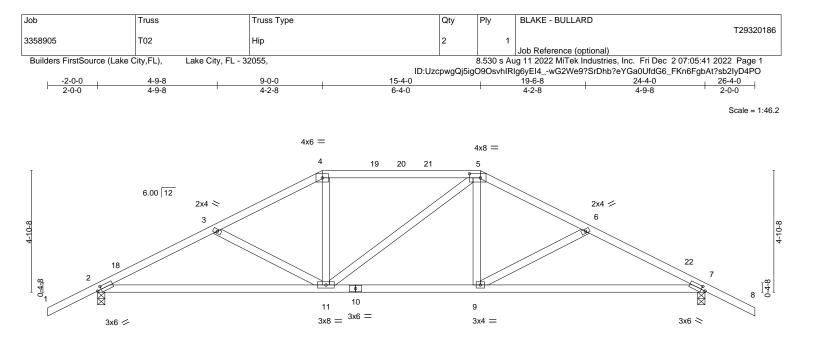
| Job | Truss | Truss Type | Qty | Ply | BLAKE - BULLARD |
|----------------------------|-----------------------------|------------|-----------|------------|---|
| | | | | | T29320185 |
| 3358905 | T01 | Hip Girder | 2 | 1 | |
| | | | | | Job Reference (optional) |
| Builders FirstSource (Lake | City,FL), Lake City, FL - 3 | 2055, | | 8.530 s Au | g 11 2022 MiTek Industries, Inc. Fri Dec 2 07:05:40 2022 Page 2 |
| | | ID:Uzcpv | vgQj5igO9 | OsvhIRIg6 | yEI4S4U8Rq_q4vZkNVz30JzQ53amDwQOW6s0fL62WsyD4PP |

LOAD CASE(S) Standard Concentrated Loads (Ib)

Vert: 4=-106(F) 6=-182(F) 13=-282(F) 11=-61(F) 5=-106(F) 10=-282(F) 18=-106(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-61(F) 23=-61(F) 24=-61(F) 25=-61(F) 25=-

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| L | 9-0-0 | | 15-4-0 | 24-4-0 |) |
|---|--|--|--|---|--|
| | 9-0-0 | | 6-4-0 | 9-0-0 | I |
| Plate Offsets (X,Y) | [2:0-1-15,0-1-8], [5:0-5-4,0-2-0], [7:0-1-1 | 5,0-1-8] | | | |
| LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0 | SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrYESCode FBC2020/TPI2014 | CSI. TC 0.55 BC 0.70 WB 0.14 Matrix-MS | DEFL. in Vert(LL) -0.15 Vert(CT) -0.32 Horz(CT) 0.05 | 9-17 >999 240 | PLATES GRIP MT20 244/190 Weight: 120 lb FT = 20% |
| LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF WEBS 2x4 SF | P No.2 | 1 | | Structural wood sheathing dire Rigid ceiling directly applied or | ctly applied or 4-4-3 oc purlins. 10-0-0 oc bracing. |
| Max H Max U | te) 2=0-3-8, 7=0-3-8 Horz 2=-82(LC 13) Jplift 2=-236(LC 12), 7=-236(LC 13) Grav 2=1008(LC 1), 7=1008(LC 1) | | | | |
| TOP CHORD 2-3= BOT CHORD 2-11 | . Comp./Max. Ten All forces 250 (lb) or -1561/348, 3-4=-1311/291, 4-5=-1133/28 =-306/1368, 9-11=-134/1133, 7-9=-245/1 =-277/156, 4-11=-25/362, 5-9=-29/362, 6 | 9, 5-6=-1311/291, 6-7=-1 368 | | | |
| Wind: ASCE 7-16; V GCpi=0.18; MWFRS 13-2-15, Interior(1) MWFRS for reaction Building Designer / to the use of this tru Provide adequate d | rainage to prevent water ponding. | nph; TCDL=4.2psf; BCDL terior(2E) -2-0-0 to 1-0-0, 19-8-7, Interior(1) 19-8-7)OL=1.60 gapplied roof live load sho | Interior(1) 1-0-0 to 9-0-0, to 26-4-0 zone;C-C for mo own covers rain loading re | Exterior(2R) 9-0-0 to embers and forces & | |
|) This truss has been | designed for a 10.0 psf bottom chord live | e load nonconcurrent with | any other live loads. | | This item has been |

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 2 and 236 lb uplift at joint 7.

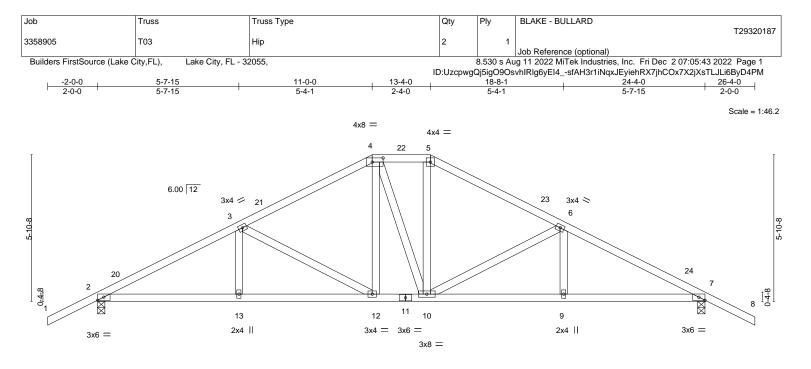
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| ⊢ | <u>5-7-15</u> 5-7-15 | | <u>11-0-0</u> 5-4-1 | | 13-4-0 | | 8-8-1 5-4-1 | | 24-4-0 5-7-15 | |
|---|--|---|---|-------------------|---|--------------------------------------|----------------------------------|--------------------------|--|------------------------------------|
| Plate Offsets (X,Y) | [4:0-5-4,0-2-0], [7:0-2-15,Ec | dge] | 041 | | 2 4 0 | | 7 - 1 | | 0110 | |
| LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 BCDL 10.0 | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TPl2 | 2-0-0 1.25 1.25 YES 2014 | CSI. TC 0.28 BC 0.42 WB 0.35 Matrix-MS | | DEFL. Vert(LL) Vert(CT) Horz(CT) | in (-0.06 12 -0.13 12 0.05 | 2-13 >999 | L/d 240 180 n/a | PLATES MT20 Weight: 133 lb | GRIP 244/190 FT = 20% |
| BOT CHORD 2x4 S | P No.2 P No.2 P No.3 | | | | BRACING- TOP CHOR BOT CHOR | | | | ectly applied or 4-6-1 o r 10-0-0 oc bracing. | c purlins. |
| Max I Max I | ze) 2=0-3-8, 7=0-3-8 Horz 2=97(LC 12) Jplift 2=-232(LC 12), 7=-232(Grav 2=1008(LC 1), 7=1008(| · / | | | | | | | | |
| TOP CHORD 2-3= BOT CHORD 2-13 | . Comp./Max. Ten All force -1595/313, 3-4=-1148/267, 4 3=-289/1375, 12-13=-289/137 2=-473/187, 4-12=-64/306, 5- | l-5=-970/270, 5 75, 10-12=-125/ | 5-6=-1149/267, 6 /968, 9-10=-210/ | -7=-15 | 594/314 | | | | | |
| 2) Wind: ASCE 7-16; GCpi=0.18; MWFR to 13-4-0, Exterior(shown; Lumber DC | re loads have been considere Vult=130mph (3-second gust S (envelope) gable end zone 2R) 13-4-0 to 17-6-15, Interio DL=1.60 plate grip DOL=1.60 Project engineer responsible |) Vasd=101mp and C-C Exter or(1) 17-6-15 to | h; TCDL=4.2psf; rior(2E) -2-0-0 to 26-4-0 zone;C-C | 1-0-0, c for m | Interior(1) 1-0-0 t nembers and force | o 11-0-0, E s & MWFF | Exterior(2E) 1 RS for reactio | ns | | |

 Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

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

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 2 and 232 lb uplift at joint 7.

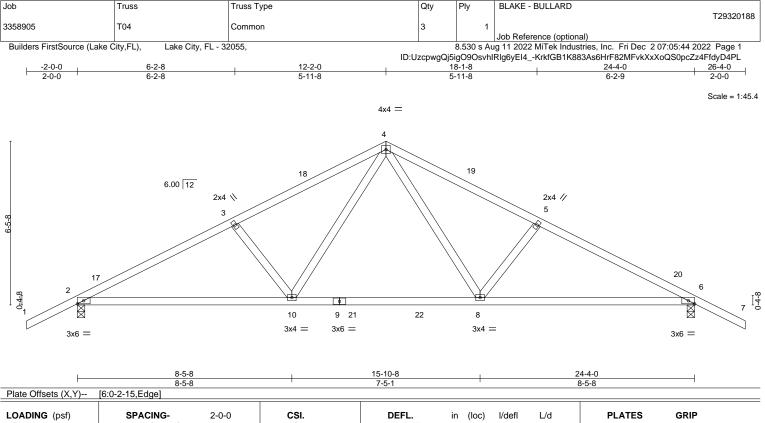
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| ate Offsets (X, Y) | [6:0-2-15,Edge] | | 1 | | | |
|--------------------|----------------------|-----------|---------------|--------------------------------|--------------------------|-------------|
| DADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) l/defl L/d | PLATES | GRIP |
| CLL 20.0 | Plate Grip DOL 1.25 | TC 0.39 | Vert(LL) -0.1 | 2 8-10 >999 240 | MT20 | 244/190 |
| CDL 7.0 | Lumber DOL 1.25 | BC 0.73 | Vert(CT) -0.2 | 24 8-16 >999 180 | | |
| CLL 0.0 * | Rep Stress Incr YES | WB 0.24 | Horz(CT) 0.0 | 05 6 n/a n/a | | |
| CDL 10.0 | Code FBC2020/TPI2014 | Matrix-MS | | | Weight: 115 lb | FT = 20% |
| JMBER- | | | BRACING- | | | |
| OP CHORD 2x4 SP | No.2 | | TOP CHORD | Structural wood sheathing di | rectly applied or 4-2-12 | oc purlins. |
| OT CHORD 2x4 SP | No.2 | | BOT CHORD | Rigid ceiling directly applied | or 10-0-0 oc bracing. | |

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=105(LC 16) Max Uplift 2=-230(LC 12), 6=-230(LC 13) Max Grav 2=1069(LC 2), 6=1069(LC 2)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-1655/364, 3-4=-1505/356, 4-5=-1505/356, 5-6=-1655/364

BOT CHORD 2-10=-295/1455, 8-10=-104/969, 6-8=-244/1452

WFBS 4-8=-137/623, 5-8=-335/202, 4-10=-136/623, 3-10=-335/202

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 12-2-0, Exterior(2R) 12-2-0 to 15-2-0, Interior(1) 15-2-0 to 26-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

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

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 2 and 230 lb uplift at

joint 6.

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