

Trenco

818 Soundside Rd Edenton, NC 27932

Re: J0225-1020

Lot 23 Magnolia Hills

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I73116257 thru I73116290

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



April 30,2025

Galinski, John

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

Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116257 J0225-1020 A1GE **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:32 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

7-9-11

6x6 = 13 8.00 12 14

7-9-11

7-10-9

Scale = 1:71.9

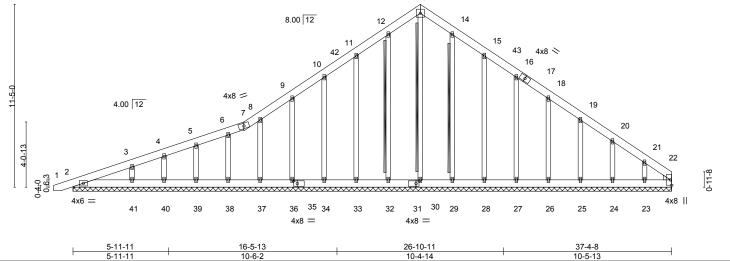


Plate Offsets (X,Y)--[31:0-2-4,0-2-0], [35:0-2-12,0-2-0] (loc) LOADING (psf) SPACING-CSI. in I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.01 22 n/a n/a Code IRC2021/TPI2014 FT = 20% **BCDL** 10.0 Matrix-S Weight: 323 lb

BRACING-LUMBER-

TOP CHORD 2x6 SP No.1 TOP CHORD BOT CHORD BOT CHORD 2x6 SP No.1 **OTHERS** 2x4 SP No.2 WEDGE

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 13-30, 12-32, 14-29

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 37-4-8.

Right: 2x4 SP No.2

Max Horz 2=354(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 22, 2, 32, 33, 34, 36, 37, 38, 39, 40, 41, 29, 27, 26, 25, 24

except 28=-103(LC 13), 23=-152(LC 13)

All reactions 250 lb or less at joint(s) 22, 2, 30, 32, 33, 34, 36, 37, 38, 39, 40, 29, 28, 27, 26, Max Grav 25, 24, 23 except 41=281(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-301/79, 11-12=-125/311, 12-13=-136/351, 13-14=-136/329, 14-15=-121/283, 21-22=-294/161

NOTES-

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

5-11-11

4-8-5

3-2-9

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-13 to 3-8-4, Exterior(2N) 3-8-4 to 21-8-4, Corner(3R) 21-8-4 to 26-1-1, Exterior(2N) 26-1-1 to 37-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 2, 32, 33, 34, 36, 37, 38, 39, 40, 41, 29, 27, 26, 25, 24 except (jt=lb) 28=103, 23=152.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



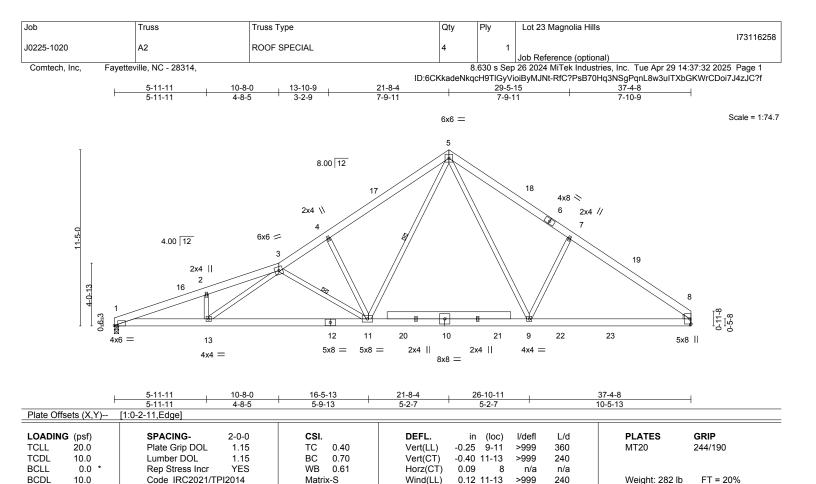
April 30,2025



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE Right: 2x4 SP No.2

REACTIONS. (size) 1=0-3-8, 8=Mechanical

Max Horz 1=267(LC 9)

Max Uplift 1=-101(LC 12), 8=-66(LC 13) Max Grav 1=1675(LC 2), 8=1826(LC 20)

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

TOP CHORD 1-2=-4389/1048, 2-3=-4355/1133, 3-4=-2805/765, 4-5=-2773/868, 5-7=-2438/767,

7-8=-2578/654

BOT CHORD 1-13=-913/4105, 11-13=-788/3555, 9-11=-130/1544, 8-9=-387/2004

WEBS 5-9=-242/1056, 7-9=-399/385, 2-13=-272/214, 3-13=-169/751, 5-11=-442/1723,

4-11=-426/353, 3-11=-1395/405

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 21-8-4, Exterior(2R) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 37-3-12 zone; C-C for members and forces & MWFRS for reactions shown; 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.
- * This truss has been designed for a live load of 30.0psf 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.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 1=101.



Structural wood sheathing directly applied or 3-6-2 oc purlins.

5-11, 3-11

Rigid ceiling directly applied or 8-2-2 oc bracing.

1 Row at midpt



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Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116259 J0225-1020 A2A **ROOF SPECIAL**

Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:33 2025 Page 1

ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-11-11 4-8-5 3-2-9 7-9-11 7-9-11 7-10-9

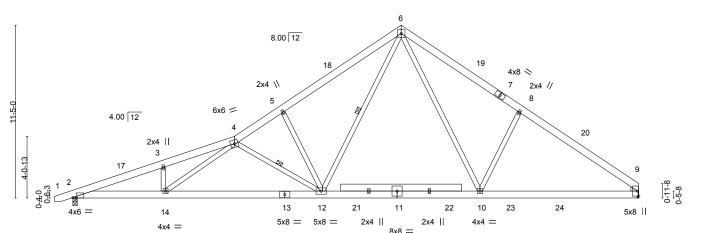
> Scale = 1:76.1 6x6 =

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

6-12, 4-12

Rigid ceiling directly applied or 8-2-11 oc bracing.

1 Row at midpt



| | | 5-11-11 | 10-8-0 | 16-5-13 | 1 21-8-4 | 1 26-10-11 | 1 | 37-4-8 | |
|-----------|------------|-----------------|--------|----------|----------|------------------|-----|----------------|----------|
| | | 5-11-11 | 4-8-5 | 5-9-13 | 5-2-7 | 5-2-7 | | 10-5-13 | |
| Plate Off | sets (X,Y) | [2:0-2-11,Edge] | | | | | | | |
| | | | | | | | | | |
| LOADIN | G (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) I/defl | L/d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC 0.40 | Vert(LL) | -0.25 10-12 >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC 0.70 | Vert(CT) | -0.40 12-14 >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB 0.62 | Horz(CT) | 0.09 9 n/a | n/a | | |
| BCDL | 10.0 | Code IRC2021/TI | PI2014 | Matrix-S | Wind(LL) | 0.12 12-14 >999 | 240 | Weight: 285 lb | FT = 20% |
| | | 1 | | | ` ′ | | | 1 | |

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEDGE Right: 2x4 SP No.2

REACTIONS. (size) 9=Mechanical, 2=0-3-8

Max Horz 2=272(LC 9)

Max Uplift 9=-66(LC 13), 2=-117(LC 12) Max Grav 9=1825(LC 20), 2=1732(LC 2)

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

TOP CHORD 2-3=-4383/1018, 3-4=-4337/1098, 4-5=-2802/759, 5-6=-2770/862, 6-8=-2437/766,

8-9=-2577/653

BOT CHORD 2-14=-904/4088, 12-14=-785/3552, 10-12=-130/1544, 9-10=-387/2003

WEBS 6-10=-242/1056, 8-10=-399/385, 3-14=-262/202, 4-14=-150/738, 6-12=-440/1722,

5-12=-426/353, 4-12=-1391/397

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 21-8-4, Exterior(2R) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 37-3-12 zone; C-C for members and forces & MWFRS for reactions shown; 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.
- * This truss has been designed for a live load of 30.0psf 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.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=117.



April 30,2025



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116260 J0225-1020 A3 **ROOF SPECIAL** 2 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:34 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 37-4-8 7-10-9 13-10-9 5-11-11 4-8-5 3-2-9 7-9-11 7-9-11 Scale = 1:69.6 6x6 = 8.00 12 16 4x8 <> 2x4 \\ 6 2x4 // 6x6 = 4.00 12 17 2x4 || 4-0-13 0-6-3 9 12 11 18 10 19 20 4x6 = 13 5x8 II 5x8 = 5x8 = 5x8 = 4x4 = 4x4 = 5-11-11 10-8-0 26-10-11 5-11-11 5-2-7 10-5-13 Plate Offsets (X,Y)--[1:0-2-11,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.40 Vert(LL) -0.26 9-11 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.71 Vert(CT) -0.40 11-13 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.61 Horz(CT) 0.09 8 n/a n/a Code IRC2021/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.12 11-13 >999 240 Weight: 263 lb Matrix-S LUMBER-**BRACING-**Structural wood sheathing directly applied or 3-6-0 oc purlins.

TOP CHORD

BOT CHORD

WEBS

Rigid ceiling directly applied or 8-2-2 oc bracing.

5-11, 3-11

1 Row at midpt

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

WEDGE Right: 2x4 SP No.2

REACTIONS. (size) 1=0-3-8, 8=Mechanical

Max Horz 1=267(LC 9)

Max Uplift 1=-101(LC 12), 8=-66(LC 13) Max Grav 1=1681(LC 2), 8=1834(LC 20)

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

TOP CHORD 1-2=-4405/1048, 2-3=-4371/1133, 3-4=-2821/765, 4-5=-2790/868, 5-7=-2452/767,

7-8=-2593/654

BOT CHORD 1-13=-913/4120, 11-13=-788/3573, 9-11=-130/1553, 8-9=-387/2016

WEBS 5-9=-242/1064, 7-9=-398/385, 2-13=-272/214, 3-13=-169/748, 5-11=-442/1735,

4-11=-426/353, 3-11=-1399/405

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 21-8-4, Exterior(2R) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 37-3-12 zone; C-C for members and forces & MWFRS for reactions shown; 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.
- * This truss has been designed for a live load of 30.0psf 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.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 1=101.



April 30,2025



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Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116261 J0225-1020 A4 **ROOF SPECIAL** 2 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:35 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 37-4-8 7-10-9 38-7-0 1-2-8 5-11-11 4-8-5 3-2-9 7-9-11 7-9-11 Scale = 1:70.8 6x6 = 5 8.00 12 4x8 <> 6 2x4 \\ 2x4 // 6x6 = 4.00 12 2x4 || 18 2 4-0-13 0-6-3 13 19 11 20 10 21 22 4x6 = 8x8 = 14 5x8 = 5x8 = 5x8 = 4x4 = 4x4 =5-11-11 10-8-0 26-10-11 5-11-11 4-8-5 10-5-13 Plate Offsets (X,Y)--[1:0-2-11,Edge], [8:Edge,0-4-5] **PLATES** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) -0.26 10-12 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.71 Vert(CT) -0.40 10-12 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.60 Horz(CT) 0.09 8 n/a n/a Code IRC2021/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.12 12-14 >999 240 Weight: 266 lb Matrix-S

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Right: 2x4 SP No.2

REACTIONS. (size) 1=0-3-8, 8=0-3-8

Max Horz 1=269(LC 11)

Max Uplift 1=-101(LC 12), 8=-82(LC 13) Max Grav 1=1676(LC 2), 8=1900(LC 20)

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

TOP CHORD 1-2=-4390/1044, 2-3=-4356/1129, 3-4=-2807/761, 4-5=-2777/863, 5-7=-2426/750,

7-8=-2568/640

BOT CHORD 1-14=-892/4105, 12-14=-762/3563, 10-12=-107/1547, 8-10=-362/1985

WEBS 5-10=-236/1040, 7-10=-380/374, 2-14=-272/214, 3-14=-170/748, 5-12=-439/1734,

4-12=-426/352, 3-12=-1395/404

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 21-8-4, Exterior(2R) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 38-5-7 zone; C-C for members and forces & MWFRS for reactions shown; 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.
- * This truss has been designed for a live load of 30.0psf 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb)



Structural wood sheathing directly applied or 3-6-2 oc purlins.

5-12, 3-12

Rigid ceiling directly applied or 8-3-4 oc bracing.

1 Row at midpt

April 30,2025



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116262 J0225-1020 A5 **ROOF SPECIAL** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:36 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 13-10-9 5-11-11 4-8-5 3-2-9 7-9-11 7-9-11 5-10-9 Scale = 1:68.5 6x6 = 5 8.00 12 4x8 💸 2x4 \\ 6 4x6 <> 19 6x6 = 4.00 12 3x4 || 4-0-13 0-6-3 <u>⊠</u> 10 14 13 12 21 11 4x6 = 15 4x8 = 5x8 = 6x8 = 5x8 = 4x4 = 4x4 = 26-10-11 5-11-11 16-5-13 5-11-11 8-5-13 10-4-14 Plate Offsets (X,Y)--[1:0-2-15,Edge]

| LOADIN | G (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|--------|---------|------------------|-------|-------|------|----------|-------------|--------|-----|----------------|----------|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.28 | Vert(LL) | -0.25 11-13 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.70 | Vert(CT) | -0.38 11-13 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.50 | Horz(CT) | 0.07 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2021/TPI | 2014 | Matri | x-S | Wind(LL) | 0.11 13-15 | >999 | 240 | Weight: 267 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except* 8-10: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-10-10 oc bracing. **WEBS** 5-13, 7-10, 3-13 1 Row at midpt

REACTIONS. (size) 1=0-3-8, 10=0-3-8

Max Horz 1=293(LC 9)

Max Uplift 1=-99(LC 12), 10=-48(LC 13) Max Grav 1=1567(LC 2), 10=1708(LC 20)

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

1-2=-4065/977, 2-3=-4034/1062, 3-4=-2523/699, 4-5=-2494/801, 5-7=-1899/632, TOP CHORD

7-8=-282/154 8-10=-259/131

BOT CHORD 1-15=-984/3799, 13-15=-855/3247, 11-13=-227/1324, 10-11=-372/1409 **WEBS**

5-11=-136/558, 7-11=-124/270, 2-15=-277/215, 3-15=-174/753, 5-13=-423/1698,

4-13=-420/350, 7-10=-1819/463, 3-13=-1305/387

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 21-8-4, Exterior(2R) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 35-0-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10.



April 30,2025



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/TPII 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 Lot 23 Magnolia Hills 173116263 J0225-1020 A6 **ROOF SPECIAL** 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:36 2025 Page 1

ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-11-11 4-8-F 3-2-9 7-9-11 7-9-11 5-10-9

> Scale = 1:69.6 6x6 =

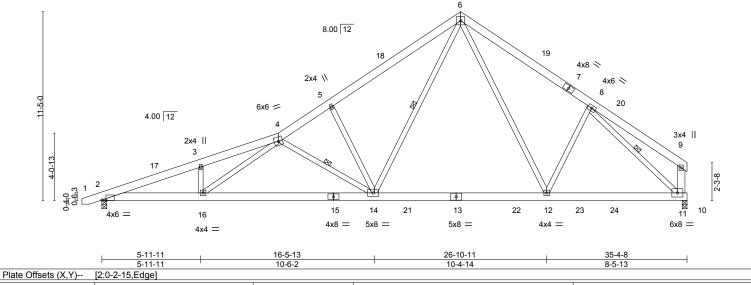
Structural wood sheathing directly applied or 3-8-4 oc purlins,

6-14, 8-11, 4-14

Rigid ceiling directly applied or 7-11-2 oc bracing.

except end verticals.

1 Row at midpt



| | 0010 (71, 17 | [2.0 2 .0,2090] | | | |
|--------|--------------|----------------------|----------|----------------------------------|-------------------------|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d | PLATES GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.28 | Vert(LL) -0.25 12-14 >999 360 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.70 | Vert(CT) -0.38 12-14 >999 240 | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.50 | Horz(CT) 0.07 11 n/a n/a | |
| BCDL | 10.0 | Code IRC2021/TPI2014 | Matrix-S | Wind(LL) 0.11 14-16 >999 240 | Weight: 270 lb FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except*

9-11: 2x6 SP No.1 (size) 11=0-3-8, 2=0-3-8

Max Horz 2=298(LC 9)

Max Uplift 11=-48(LC 13), 2=-115(LC 12) Max Grav 11=1708(LC 20), 2=1624(LC 2)

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

2-3=-4059/947, 3-4=-4016/1028, 4-5=-2520/693, 5-6=-2492/795, 6-8=-1898/629, TOP CHORD

8-9=-282/154. 9-11=-259/131

BOT CHORD 2-16=-975/3783, 14-16=-852/3244, 12-14=-226/1324, 11-12=-371/1408 **WEBS** 6-12=-137/558, 8-12=-124/270, 3-16=-267/203, 4-16=-154/740, 6-14=-421/1697,

5-14=-420/350, 8-11=-1819/463, 4-14=-1301/379

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 21-8-4, Exterior(2R) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 35-0-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- * This truss has been designed for a live load of 30.0psf 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=115



April 30,2025



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116264 J0225-1020 Α7 **ROOF SPECIAL** 2

Comtech, Inc, Fayetteville, NC - 28314,

Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:37 2025 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

7-5-1

except end verticals.

1 Row at midpt

Structural wood sheathing directly applied or 4-9-10 oc purlins,

6-9, 6-10, 7-9

Rigid ceiling directly applied or 9-6-6 oc bracing.

21-8-4 7-9-11 13-10-9 23-11-8 5-11-11 4-8-5 3-2-9 2-3-4

> Scale = 1:69.2 5x5 ||

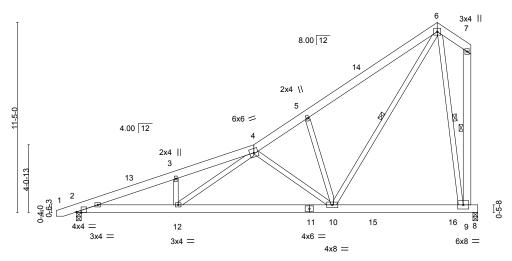


Plate Offsets (X,Y)--[2:0-3-7,Edge] SPACING-LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) -0.15 9-10 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.48 Vert(CT) -0.23 9-10 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.51 Horz(CT) 0.03 8 n/a n/a Code IRC2021/TPI2014 Weight: 206 lb FT = 20% **BCDL** 10.0 Wind(LL) 0.06 9-10 >999 240 Matrix-S

16-5-13

10-6-2

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except*

7-9: 2x6 SP No.1 REACTIONS. (size) 8=0-3-8, 2=0-3-8

> Max Uplift 8=-142(LC 12), 2=-46(LC 12) Max Grav 8=1169(LC 19), 2=1094(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2485/295, 3-4=-2463/381, 4-5=-1233/125, 5-6=-1253/286 TOP CHORD

BOT CHORD 2-12=-675/2300. 10-12=-523/1683

Max Horz 2=338(LC 12)

WEBS 6-9=-987/456, 3-12=-296/219, 4-12=-192/780, 6-10=-418/1548, 5-10=-425/365,

4-10=-830/187

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 21-8-4, Exterior(2E) 21-8-4 to 23-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5-11-11

5-11-11

- 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 30.0psf 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=142.



April 30,2025



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116265 J0225-1020 **A8 ROOF SPECIAL**

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:37 2025 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

6-9, 6-10, 7-9

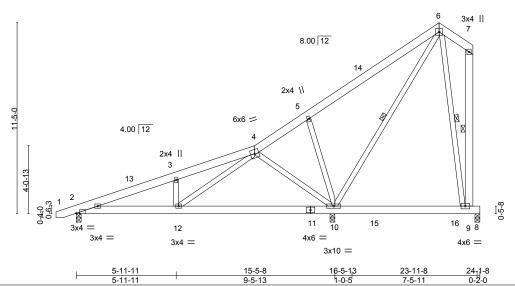
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1 Row at midpt

21-8-4 7-9-11 13-10-9 23-11-8 5-11-11 4-8-5 3-2-9 2-3-4

> Scale = 1:68.9 5x5 =



| Plate Offsets (X, Y) | rate Offsets (x, t) [2:0-2-7, Edge] | | | | | | | | | |
|----------------------|-------------------------------------|----------|---|--|--|--|--|--|--|--|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES GRIP | | | | | | | |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.25 | Vert(LL) -0.08 9-10 >999 360 MT20 244/190 | | | | | | | |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.30 | Vert(CT) -0.11 9-10 >972 240 | | | | | | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.47 | Horz(CT) 0.01 8 n/a n/a | | | | | | | |
| BCDL 10.0 | Code IRC2021/TPI2014 | Matrix-S | Wind(LL) 0.02 12 >999 240 Weight: 206 lb FT = 20% | | | | | | | |

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except*

7-9: 2x6 SP No.1 REACTIONS. (size) 8=0-3-8, 10=0-3-8, 2=0-3-8

Max Horz 2=338(LC 12) Max Uplift 8=-53(LC 12), 10=-139(LC 12), 2=-91(LC 8) Max Grav 8=181(LC 19), 10=1550(LC 2), 2=551(LC 25)

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

2-3=-899/70, 3-4=-891/133, 4-5=-273/411, 5-6=-138/499 TOP CHORD

BOT CHORD 2-12=-301/797

WEBS 3-12=-334/230, 4-12=-218/888, 6-10=-663/109, 5-10=-431/366, 4-10=-398/91

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 21-8-4, Exterior(2E) 21-8-4 to 23-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2 except (jt=lb) 10=139.



April 30,2025



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116266 J0225-1020 A9 **ROOF SPECIAL**

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:38 2025 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

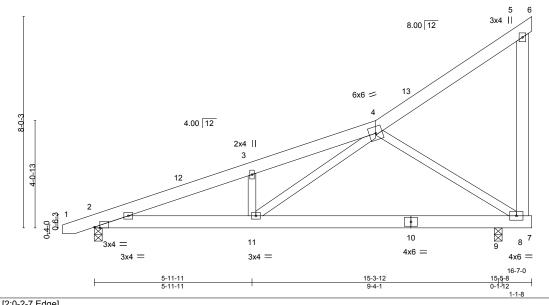
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

10-8-0 4-8-5

Scale = 1:43.7



| Plate Off | Plate Offsets (X,Y) [2:0-2-7,Edge] | | | | | | | | | | |
|-----------|------------------------------------|---------------------|-----|----------|----------|-------|------------|--------|-----|----------------|----------|
| | 2 / 5 | 004000 | | 001 | | | <i>a</i> > | | | DI 4750 | anın. |
| LOADIN | G (pst) | SPACING- 2- | 0-0 | CSI. | DEFL. | ın | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL 1 | .15 | TC 0.15 | Vert(LL) | -0.05 | 9-11 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1 | .15 | BC 0.34 | Vert(CT) | -0.09 | 9-11 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr Y | ES | WB 0.47 | Horz(CT) | 0.01 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2021/TPI201 | 14 | Matrix-S | Wind(LL) | -0.03 | 9-11 | >999 | 240 | Weight: 121 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except*

5-8: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=251(LC 12)

Max Uplift 2=-74(LC 8), 9=-133(LC 12) Max Grav 2=673(LC 1), 9=710(LC 1)

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

TOP CHORD 2-3=-1212/13, 3-4=-1196/86

BOT CHORD 2-11=-288/1092, 9-11=-210/547, 8-9=-210/547 WEBS 3-11=-307/223, 4-11=-114/687, 4-8=-665/267

NOTES-

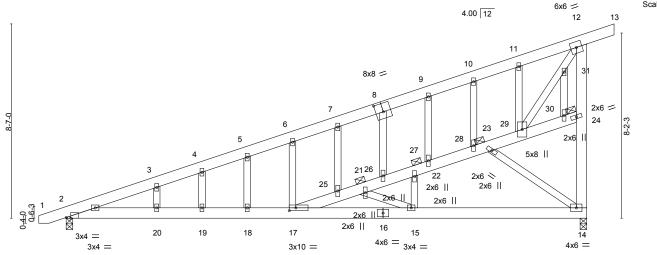
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 16-7-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber 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 30.0psf 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=133.



April 30,2025



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116267 J0225-1020 B1SG **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:39 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID: 6CK kadeNkqcH9TIGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff|24-2-8 | 1-2-8 8-0-14 7-3-13 Scale = 1:50.9



| | | - | 8-0-14 | | | 15-4-11 | | | 23-0-0 | | |
|-------------|-----------|----------------------------|------------------|----------|------|----------|-------------|--------|--------|----------------|----------|
| | | <u>'</u> | 8-0-14 | | ' | 7-3-13 | ' | | 7-7-5 | j ' | |
| Plate Offse | ets (X,Y) | [2:0-2-7,Edge], [8:0-4-0,0 |)-4-8], [17:0-3- | 8,0-1-8] | | | | | | | |
| | , n | 004000 | | | | 5==: | | | | DI 4750 | |
| LOADING | (pst) | SPACING- | 2-0-0 | CSI. | | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.54 | Vert(LL) | -0.20 18-19 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.50 | Vert(CT) | -0.40 18-19 | >678 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.89 | Horz(CT) | 0.01 14 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2021/TI | PI2014 | Matri | x-S | Wind(LL) | 0.26 18-19 | >999 | 240 | Weight: 220 lb | FT = 20% |

TOP CHORD

BOT CHORD

JOINTS

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 *Except* **WEBS**

12-14,17-24: 2x6 SP No.1

OTHERS 2x4 SP No.2

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

Max Horz 2=420(LC 9)

Max Uplift 14=-337(LC 12), 2=-280(LC 8) Max Grav 14=992(LC 1), 2=972(LC 1)

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

TOP CHORD 2-3=-1715/325, 3-4=-1650/360, 4-5=-1624/380, 5-6=-1606/406, 6-7=-1656/460,

7-8=-1674/491, 8-9=-1685/532, 9-10=-1607/546, 10-11=-1520/538, 11-12=-1728/648,

14-24=-1391/560, 12-24=-1494/621

BOT CHORD 2-20=-455/1548, 19-20=-455/1548, 18-19=-455/1548, 17-18=-455/1548, 14-15=-741/343 WFBS

15-21=-822/309, 15-22=-15/481, 14-23=-328/848, 17-25=-542/1630, 21-25=-567/1685,

21-26=-798/2304, 22-26=-830/2356, 22-27=-834/2484, 27-28=-841/2441,

23-28=-826/2393, 23-29=-630/1886, 6-17=-279/151, 11-29=-776/317, 29-31=-1046/2715,

12-31=-979/2533

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 24-2-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 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 30.0psf 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 100 lb uplift at joint(s) except (jt=lb) 14=337, 2=280.



Structural wood sheathing directly applied or 4-10-12 oc purlins,

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

except end verticals.

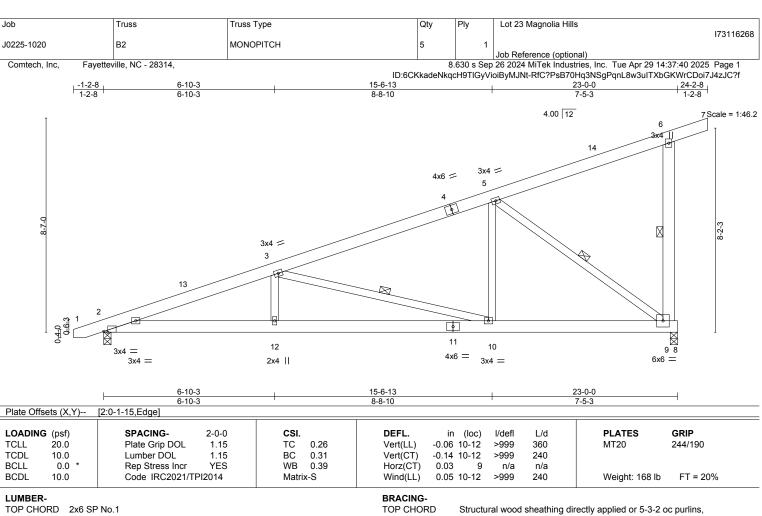
1 Brace at Jt(s): 21, 22, 23, 24

April 30,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





BOT CHORD

WEBS

except end verticals.

1 Row at midpt

Rigid ceiling directly applied or 9-2-7 oc bracing.

6-9, 3-10, 5-9

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except* 6-9: 2x6 SP No.1

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=318(LC 9)

Max Uplift 9=-138(LC 12), 2=-118(LC 8) Max Grav 9=1002(LC 1), 2=966(LC 1)

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

TOP CHORD 2-3=-2096/491, 3-5=-1046/276, 6-9=-268/199 2-12=-727/1927, 10-12=-727/1927, 9-10=-401/918 **BOT CHORD WEBS** 3-12=0/320, 3-10=-1044/339, 5-10=-8/556, 5-9=-1125/357

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 24-2-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- * This truss has been designed for a live load of 30.0psf 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=138, 2=118.



April 30,2025



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

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Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116269 J0225-1020 B2-A MONOPITCH 6 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:40 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 24-2-8 6-10-3 12-5-0 5-6-13 22-5-0 10-0-0 23-0-0 0-7-0 1-2-8 4.00 12 Scale = 1:49.2 8 2x4 18 2x6 =4x6 = 6 5 2x4 || 8x8 3x4 = 3 8-0-0 0.4-0 0-6-3 J-5-8 10 19 15 14 12 4x6 =4x6 =6x6 = 3x4 =2x4 | 5x8 8x8 II 6x6 =

| | 6-1 | 0-3 | 1 | 5-6-13 | ı | | 1 | 0-7-0 | ' | | |
|----------------------------|----------------------------|-------------------|--------------|--------|-------------------|-------------------------|----------------|------------|----------------|---------------------|--|
| Plate Offsets (X,Y) | [2:0-3-7,Edge], [14:0-1-8 | 3,0-2-8], [16:0-2 | -8,0-4-0] | | | | | | | | |
| LOADING (psf) TCLL 20.0 | SPACING- Plate Grip DOL | 2-0-0 1.15 | CSI. TC 0 |).44 | DEFL. Vert(LL) | in (loc) -0.30 14-15 | l/defl >887 | L/d 360 | PLATES MT20 | GRIP 244/190 | |

12-5-0

3x4 ||

23-0-0

except end verticals.

1 Row at midpt

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

11-16

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

TCDL 10.0 Lumber DOL 1.15 ВС 0.57 Vert(CT) -0.53 14-15 >508 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.83 Horz(CT) 0.03 11 n/a n/a Code IRC2021/TPI2014 Weight: 196 lb FT = 20% **BCDL** 10.0 Wind(LL) 0.19 14-15 >999 240 Matrix-S **BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

2x6 SP 2400F 2.0E TOP CHORD BOT CHORD 2x6 SP 2400F 2.0E *Except*

12-14: 2x6 SP No.1 2x4 SP No.2 *Except*

WEBS 8-11: 2x6 SP No.1

(size) 11=0-3-8, 2=0-3-8

Max Horz 2=318(LC 9)

Max Uplift 11=-138(LC 12), 2=-118(LC 8) Max Grav 11=1213(LC 2), 2=1068(LC 2)

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

TOP CHORD 2-3=-2482/516, 3-4=-1213/251, 4-6=-989/280, 6-7=-578/1055, 7-8=-509/1082,

6-10-3

8-11=-239/739

BOT CHORD 2-15=-751/2317, 14-15=-751/2317, 12-14=-399/1019, 11-12=-385/984 WEBS

3-15=0/440, 3-14=-1417/395, 4-14=0/466, 12-16=-176/1197, 6-16=-2048/649,

11-16=-2722/763, 8-16=-1592/587

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 24-2-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=138, 2=118.



April 30,2025



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116270 J0225-1020 B3SG **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:41 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f |24-2-8 | |1-2-8 8-0-14 7-3-13 4.00 12 Scale = 1:49.8 2x4 || 9 10 3x4 II 8 2x4 || 2x4 || 6 3x4 = 4x6 = 3x4 = 3 3x6 3x6 3x6 16 17 15 13 14 12 11 4x6 = 4x6 = 3x4 =2x4 || 3x4 = 2x4 | 2x4 || 2x4 || 7-3-13 Plate Offsets (X,Y)--[2:0-2-3,Edge] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.06 17 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.35 Vert(CT) -0.12 2-17 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.98 Horz(CT) 0.03 n/a 11 n/a Code IRC2021/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.07 17 >999 240 Weight: 194 lb Matrix-S LUMBER-**BRACING-**2x6 SP No.1 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, BOT CHORD 2x6 SP No.1 except end verticals. 2x4 SP No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 9-11: 2x6 SP No.1 **WEBS** 2x4 SPF No.2 - 9-11 **OTHERS** 2x4 SP No.2 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length. **JOINTS** 1 Brace at Jt(s): 18, 19 11=0-3-8, 2=0-3-8 (size) Max Horz 2=420(LC 9) Max Uplift 11=-337(LC 12), 2=-280(LC 8)

REACTIONS.

Max Grav 11=992(LC 1), 2=972(LC 1)

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

2-3=-1986/454, 3-5=-1053/257 TOP CHORD

BOT CHORD 2-17=-554/1811, 15-17=-554/1811, 14-15=-239/932, 13-14=-239/932, 12-13=-239/932,

11-12=-239/932

WEBS 3-17=0/326, 3-15=-938/337, 5-15=-69/533, 5-18=-1125/394, 18-19=-1101/386,

19-20=-1112/389, 11-20=-1139/399

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 24-2-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=337, 2=280
- 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required



April 30,2025



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Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116271 J0225-1020 B4 MONOPITCH 3 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:41 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-11-11 5-11-11 17-8-8 18-11-0 5-8-10 6-0-2 1-2-8 4.00 12 7Scale = 1:36.2 6 3x4 = 4x6 = 5 2x4 <> 0-4-0 9 3x4 =10 3x4 4x6 = 4x6 =8-10-0 Plate Offsets (X,Y)--[2:0-2-7,Edge] **GRIP** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** 20.Ó TCLL Plate Grip DOL 1.15 TC 0.13 Vert(LL) -0.04 2-11 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.29 Vert(CT) -0.08 2-11 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.64 Horz(CT) 0.02 9 n/a n/a Code IRC2021/TPI2014 Wind(LL) Weight: 125 lb FT = 20% **BCDL** 10.0 0.02 2-11 >999 240 Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except*

6-9: 2x6 SP No.1

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=250(LC 9)

Max Uplift 9=-111(LC 12), 2=-99(LC 8) Max Grav 9=791(LC 1), 2=754(LC 1)

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

TOP CHORD 2-3=-1447/394, 3-4=-1085/244 **BOT CHORD** 2-11=-565/1331, 9-11=-337/677

WEBS 3-11=-417/274, 4-11=-46/578, 4-9=-802/304

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 18-11-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=111.



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

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

except end verticals.

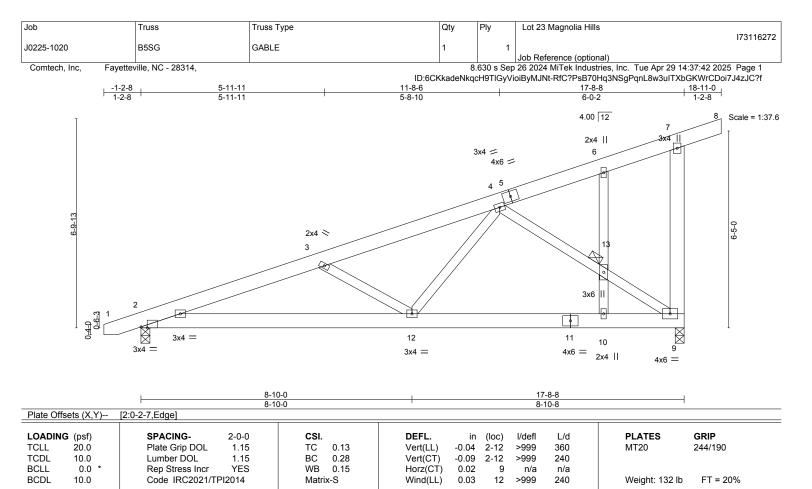
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BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 **WEBS**

2x4 SP No.2 *Except* 7-9: 2x6 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. (size) 9=0-3-8, 2=0-3-8

Max Horz 2=330(LC 9)

Max Uplift 9=-269(LC 12), 2=-226(LC 8) Max Grav 9=781(LC 1), 2=760(LC 1)

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

TOP CHORD 2-3=-1462/386, 3-4=-1102/231, 7-9=-254/113 **BOT CHORD** 2-12=-469/1344, 10-12=-192/698, 9-10=-192/698

WEBS 3-12=-412/285, 4-12=-62/538, 4-13=-822/309, 9-13=-818/306

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 18-11-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=269, 2=226.



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

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

except end verticals.

1 Brace at Jt(s): 13

April 30,2025



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Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116273 J0225-1020 B6 MONOPITCH 8 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:42 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 16-3-8 7-6-4 7-6-4 7-6-12 1-2-8 Scale = 1:30.7 4.00 12 5 4x6 = 3x4 = 0-4-0 0-6-3 9 8 4x6 = 2x4 || 7-6-12 Plate Offsets (X,Y)--[2:0-2-7,Edge] **GRIP** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** 20.Ó TCLL Plate Grip DOL 1.15 TC 0.21 Vert(LL) -0.03 2-9 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.22 Vert(CT) -0.06 2-9 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.95 Horz(CT) 0.01 8 n/a n/a Code IRC2021/TPI2014 Weight: 103 lb FT = 20% **BCDL** 10.0 Wind(LL) 0.02 2-9 >999 240 Matrix-S LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

except end verticals.

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

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except* 5-8: 2x6 SP No.1

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=217(LC 9)

Max Uplift 8=-98(LC 12), 2=-89(LC 8) Max Grav 8=687(LC 1), 2=649(LC 1)

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

TOP CHORD 2-3=-1073/258, 5-8=-283/238 **BOT CHORD** 2-9=-411/954, 8-9=-411/954 WEBS 3-9=0/328, 3-8=-976/343

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 16-3-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.



April 30,2025



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| b | | Truss | Truss Type | | Qty | Ply | Lot 23 I | Magnolia Hills | | 1=0.4.400=4 |
|---|-----------------|--------------------|---|---|---------------------|-------------------|----------------------|-------------------|----------------------|---------------------|
| 225-1020 | | B7GE | GABLE | | 1 | 1 | loh Pofo | rence (optional) | | I73116274 |
| Comtech, Inc, | Fayette | ville, NC - 28314, | | | 8. | 630 s Se | | | nc. Tue Apr 29 14: | 37:43 2025 Page 1 |
| , ,, | • | , | | ID:6CK | | | | | | GKWrCDoi7J4zJC?f |
| ŀ | -1-2-8 1-2-8 | + | | 15-1-0 15-1-0 | | | | | + | 16-3-8 1-2-8 |
| | | | | | | | | 4x6 = 9 | 1.00 12 10 3x4 | 11 Scale: 3/8"=1 |
| | | | | | | | 7 | 8 | | |
| 5-11-5 | | | | 5 | 6 | | | | | 5-6-8 |
| | | ; | 4 | | | | | | | |
| 6-3 | 12 | | | 0 | | | • | | | |
| 0-4-0 0-6-3 | | | | *************************************** | ××××× | ***** | ××××× | | | 1 |
| | | 3x4 = | 18 17 | 16 | 15 | | 14 | 13 | 12 3x4 | II |
| | | - | | 15-1-0 15-1-0 | | | | | | |
| OADING (psf) CLL 20.0 CDL 10.0 | | Plate Grip DOL 1 | 0-0 CSI. .15 TC 0.10 .15 BC 0.04 | | in 0.00 -0.00 | (loc) 10 11 | l/defl n/r n/r | L/d 120 120 | PLATES MT20 | GRIP 244/190 |
| CLL 0.0 CDL 10.0 | * | | 'ES WB 0.03 | | | 12 | n/a | n/a | Weight: 110 lb | FT = 20% |
| | | | | | | | | | | |

LUMBER-

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

BOT CHORD 2x6 SP No.1 **WEBS OTHERS** 2x4 SP No.2 **BRACING-**

BOT CHORD

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

except end verticals.

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

REACTIONS. All bearings 15-1-0.

(lb) - Max Horz 2=285(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14, 15, 16, 17, 18 except 12=-116(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 12, 2, 13, 14, 15, 16, 17, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-462/215, 3-4=-390/188, 4-5=-344/178, 5-6=-292/164, 10-12=-177/257

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-13 to 3-5-0, Exterior(2N) 3-5-0 to 16-3-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 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 30.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 14, 15, 16, 17, 18 except (jt=lb) 12=116.



April 30,2025



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Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116275 J0225-1020 C1GE MONOPITCH SUPPORTED

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:43 2025 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

2x4 SPF No.2 - 8-10

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

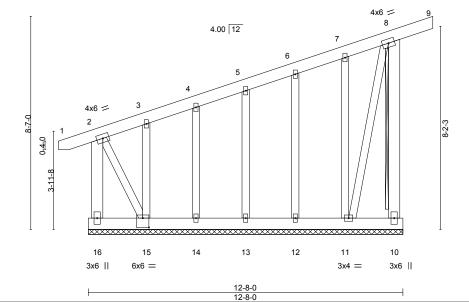
Brace must cover 90% of web length.

except end verticals.

T-Brace:

13-10-8 12-8-0 1-2-8

Scale = 1:46.4



| Plate Offset | ts (X,Y) | [15:0-3-0,0-4-8] | | | |
|--------------|----------|----------------------|----------|----------------------------------|-------------------------|
| LOADING | (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d | PLATES GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.20 | Vert(LL) -0.00 8 n/r 120 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.09 | Vert(CT) 0.00 8 n/r 120 | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.24 | Horz(CT) -0.00 10 n/a n/a | |
| BCDL | 10.0 | Code IRC2021/TPI2014 | Matrix-S | | Weight: 146 lb FT = 20% |

BOT CHORD

WEBS

LUMBER-BRACING-2x6 SP No.1 TOP CHORD TOP CHORD

BOT CHORD 2x6 SP No.1 2x6 SP No.1 *Except* **WEBS**

2-15,8-11: 2x4 SP No.2

Max Horz 16=398(LC 9)

OTHERS 2x4 SP No.2

REACTIONS. All bearings 12-8-0.

Max Uplift All uplift 100 lb or less at joint(s) 13, 14, 12, 11 except 10=-232(LC 9),

15=-470(LC 9)

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

16=485(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-16=-891/480, 2-3=-390/201, 3-4=-348/193, 4-5=-287/176, 8-10=-163/428

BOT CHORD 15-16=-692/457

(lb) -

WEBS 2-15=-540/1077, 8-11=-252/148

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-13 to 3-5-0, Exterior(2N) 3-5-0 to 13-10-7 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14, 12, 11 except (jt=lb) 10=232, 15=470.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required



April 30,2025

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Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116276 J0225-1020 D1GE **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:44 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 15-7-8 14-5-0 1-2-8 4.00 12 Scale = 1:30.6 8 6 8x8 = 3x4 =15 14 13 12 11 10 3x4 || Plate Offsets (X,Y)--[5:0-4-0,0-4-8] LOADING (psf) SPACING-CSI **DEFL** in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) 0.00 8 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 9 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 0.00 10 Horz(CT) n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

WEBS 2x6 SP No.1 **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 14-5-0.

Max Horz 2=274(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 12, 13, 14 except 10=-115(LC 9), 15=-116(LC 12)

Matrix-S

Max Grav All reactions 250 lb or less at joint(s) 10, 2, 11, 12, 13, 14 except 15=334(LC 1)

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

Code IRC2021/TPI2014

TOP CHORD 2-3=-436/205, 3-4=-332/162, 4-5=-296/160, 8-10=-177/261

WEBS 3-15=-236/273

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-11-13 to 3-5-0, Exterior(2N) 3-5-0 to 15-7-8 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 12, 13, 14 except (jt=lb) 10=115, 15=116.



Weight: 103 lb

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

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

except end verticals.

FT = 20%

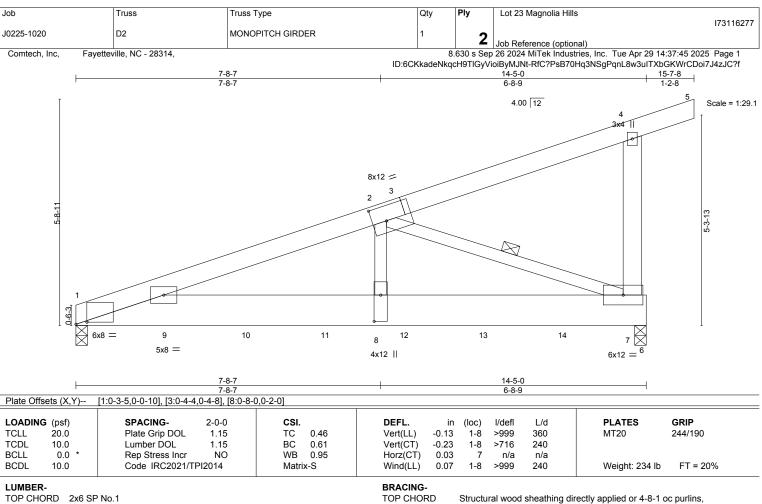
April 30,2025



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BOT CHORD

WEBS

except end verticals.

1 Row at midpt

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

2x6 SP No.1 TOP CHORD BOT CHORD 2x10 SP 2400F 2.0E **WEBS** 2x4 SP No.2 *Except* 4-7: 2x6 SP No.1

REACTIONS. (size) 7=0-3-8, 1=0-3-8 Max Horz 1=197(LC 22)

Max Uplift 7=-335(LC 8), 1=-342(LC 4) Max Grav 7=6000(LC 2), 1=7297(LC 2)

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

TOP CHORD 1-2=-10549/502, 2-4=-286/26, 4-7=-285/103

BOT CHORD 1-8=-501/9990, 7-8=-501/9990 **WEBS** 2-8=-196/6675, 2-7=-10476/567

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-3-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=335, 1=342.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1761 lb down and 78 lb up at 0-1-12, 1753 lb down and 86 lb up at 2-4-4, 1745 lb down and 86 lb up at 4-4-4, 1745 lb down and 86 lb up at 6-4-4, 1745 lb down and 86 lb up at 8-4-4, and 1745 lb down and 86 lb up at 10-4-4, and 1745 lb down and 86 lb up at 12-4-4 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, 4-5=-60, 1-6=-20



April 30,2025



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Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116277 MONOPITCH GIRDER J0225-1020 D2

Comtech, Inc, Fayetteville, NC - 28314,

Z | Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:45 2025 Page 2 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 1=-1475(B) 9=-1467(B) 10=-1466(B) 11=-1466(B) 12=-1466(B) 13=-1466(B) 14=-1466(B)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116278 J0225-1020 G1SG **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:45 2025 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6-5-8 6-5-8 Scale: 3/4"=1" 4x4_H 2x4 || 4.00 12 2x4 || 0-6-3 9 2x4 || 2x4 || 5x10 M18AHS II Plate Offsets (X,Y)--[2:0-2-0,0-2-4], [6:Edge,0-4-0] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP 244/190 TCLL 20.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) 0.08 7-8 >897 240 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.32 Vert(CT) -0.03 7-8 >999 240 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) -0.00 6 n/a n/a Code IRC2021/TPI2014 **BCDL** 10.0 Weight: 34 lb FT = 20% Matrix-S **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

OTHERS

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

2x4 SP No.2 REACTIONS. (size) 2=0-3-0, 6=0-1-8 Max Horz 2=120(LC 8)

Max Uplift 2=-194(LC 8), 6=-149(LC 8)

Max Grav 2=333(LC 1), 6=235(LC 1)

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

BOT CHORD 2-8=-309/97, 7-8=-309/97, 6-7=-309/97

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-2-8 to 3-2-5, Exterior(2N) 3-2-5 to 6-2-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 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 30.0psf 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=194, 6=149.



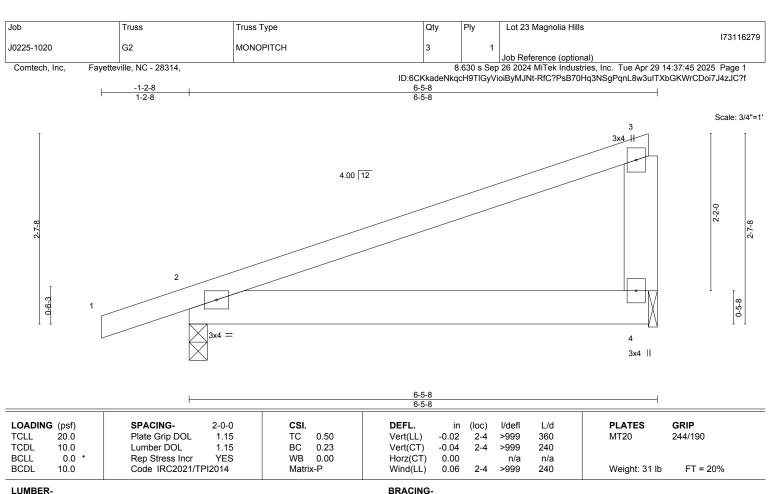
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

April 30,2025





TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SP No.1

REACTIONS. 2=0-3-0, 4=0-1-8 (size) Max Horz 2=85(LC 8)

Max Uplift 2=-135(LC 8), 4=-102(LC 8) Max Grav 2=333(LC 1), 4=235(LC 1)

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=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 6-2-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf 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.
- 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) except (jt=lb) 2=135, 4=102.



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

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

except end verticals.

April 30,2025



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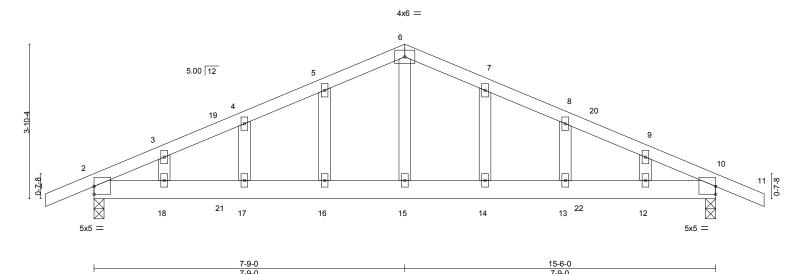
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| - [- | Job | Truss | Truss Type | Qty | Ply | Lot 23 Magnolia Hills | |
|------|-----------------------|--------------------|------------|---------------|------------|--|-------------|
| | | | | | | | I73116280 |
| - [. | J0225-1020 | H1 | GABLE | 1 | 1 | | |
| | | | | | | Job Reference (optional) | |
| - | Comtech, Inc, Fayette | ville, NC - 28314, | | 8 | .630 s Sep | 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:46 2 | 025 Page 1 |
| | - | | | ID:6CKkadeNkg | cH9TlGyVi | oiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCl | Doi7J4zJC?f |
| | -1-2-8 | 7- | -9-0 | · | | 15-6-0 | 16-8-8 |
| | 1-2-8 | 7- | -9-0 | | | 7-9-0 | 1-2-8 |

Scale = 1:28.7



| Plate Off | sets (X,Y) | [2:0-0-0,0-2-6], [10:Edge,0-2-6] | | | | | | | |
|-----------|------------|----------------------------------|----------|-------------|----------|--------|-----|---------------|----------|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.27 | Vert(LL) -0 | 0.05 17 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.38 | Vert(CT) -0 | 0.08 17 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.18 | Horz(CT) -0 | 0.01 10 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2021/TPI2014 | Matrix-S | Wind(LL) 0 | 0.09 17 | >999 | 240 | Weight: 83 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1 **WEBS** 2x4 SP No.2 **OTHERS** 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 10=0-3-0

Max Horz 2=-76(LC 17)

Max Uplift 2=-289(LC 8), 10=-289(LC 9) Max Grav 2=690(LC 1), 10=690(LC 1)

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

TOP CHORD 2-3=-929/1378, 3-4=-860/1343, 4-5=-848/1379, 5-6=-847/1428, 6-7=-847/1429,

7-8=-848/1379, 8-9=-860/1344, 9-10=-929/1380

BOT CHORD 2-18=-1127/772, 17-18=-1127/772, 16-17=-1127/772, 15-16=-1127/772, 14-15=-1127/772,

13-14=-1127/772, 12-13=-1127/772, 10-12=-1127/772

WEBS 6-15=-896/462

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-2-8 to 3-2-5, Exterior(2N) 3-2-5 to 7-9-0, Corner(3R) 7-9-0 to 12-1-13, Exterior(2N) 12-1-13 to 16-8-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 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 30.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=289, 10=289,



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

Rigid ceiling directly applied or 6-7-7 oc bracing.

April 30,2025



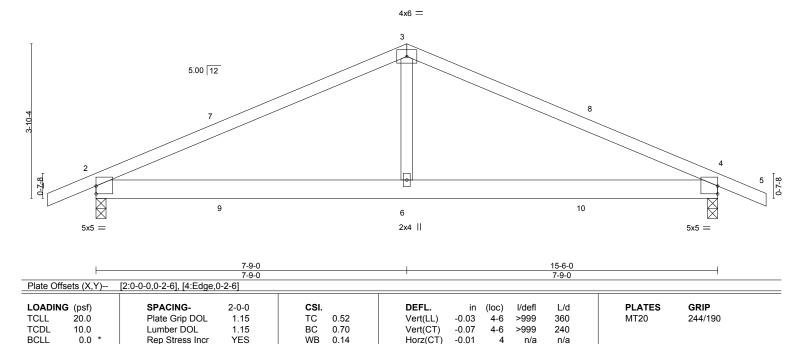
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| Job | Truss | Truss Type | Qty | Ply | Lot 23 Magnolia Hills | |
|---------------|---------------------------|------------|---------------|------------|--|-------------|
| | | | | | | 173116281 |
| J0225-1020 | H2 | COMMON | 5 | 1 | | |
| | | | | | Job Reference (optional) | |
| Comtech, Inc, | Fayetteville, NC - 28314, | | 8 | .630 s Sep | 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:47 2 | 2025 Page 1 |
| | | | ID:6CKkadeNkq | cH9TlGyVi | oiByMJNt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCI | Doi7J4zJC?f |
| -1-2-8 | | 7-9-0 | | | 15-6-0 | 16-8-8 |
| 1-2-8 | | 7-9-0 | | | 7-9-0 | 1-2-8 |

Scale = 1:28.7



Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

n/a

240

Rigid ceiling directly applied or 7-2-9 oc bracing.

Structural wood sheathing directly applied or 5-4-6 oc purlins.

>999

2-6

0.10

LUMBER-

BCDL

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

10.0

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=-45(LC 17)

Max Uplift 2=-207(LC 8), 4=-207(LC 9) Max Grav 2=690(LC 1), 4=690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-940/1248, 3-4=-940/1253

Code IRC2021/TPI2014

BOT CHORD 2-6=-1008/765, 4-6=-1008/765

WEBS 3-6=-687/390

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 7-9-0, Exterior(2R) 7-9-0 to 12-1-13, Interior(1) 12-1-13 to 16-8-8 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=207, 4=207.



April 30,2025

FT = 20%

Weight: 70 lb



| Job | Truss | Truss Type | Qty | Ply | Lot 23 Magnolia Hills | 7 |
|------------|-------|------------|-----|-----|--------------------------|---|
| 10225 4020 | DACE | MONOPITCH | 4 | _ | 173116282 | |
| J0225-1020 | P1GE | MONOPITCH | ' | 1 | Job Reference (optional) | |

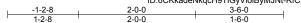
Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:47 2025 Page 1 ID: 6CK kadeNkqcH9TIGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

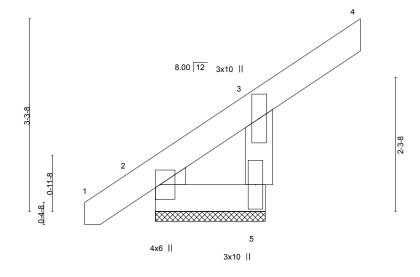
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.



Scale = 1:19.7



| LOADIN | \ | SPACING- 2-0-0 | CSI. | DEFL. | | (loc) | l/defl | L/d | PLATES | GRIP |
|--------|-------|----------------------|----------|----------|------|-------|--------|-----|---------------|----------|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.14 | Vert(LL) | 0.00 | 4 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.01 | Vert(CT) | 0.00 | 3 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2021/TPI2014 | Matrix-P | | | | | | Weight: 22 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 **WEBS** 2x6 SP No.1

WEDGE Left: 2x4 SP No.2

REACTIONS. (size) 5=1-10-8, 2=1-10-8

Max Horz 2=133(LC 12)

Max Uplift 5=-176(LC 12), 2=-12(LC 8) Max Grav 5=223(LC 19), 2=113(LC 21)

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

TOP CHORD 2-3=-430/137, 3-5=-253/659

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=176.





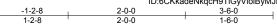
Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116283 J0225-1020 P2 MONOPITCH 5 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:47 2025 Page 1

Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

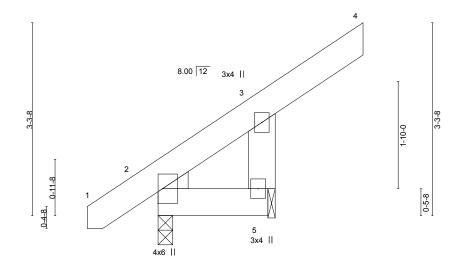
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.



Scale = 1:19.7



| 2-0-0 |
|-------|
| 2-0-0 |

| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. i | n (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|---------------|---------|--------|-----|---------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.10 | Vert(LL) -0.0 | 0 2 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.02 | Vert(CT) -0.0 | 0 2 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) 0.0 | 0 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2021/TPI2014 | Matrix-P | Wind(LL) 0.0 | 0 2 | **** | 240 | Weight: 22 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 **WEBS** 2x6 SP No.1

WEDGE Left: 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 5=0-1-8

Max Horz 2=90(LC 12)

Max Uplift 2=-11(LC 8), 5=-139(LC 9) Max Grav 2=106(LC 21), 5=213(LC 19)

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

TOP CHORD 2-3=-303/137, 3-5=-253/450

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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 30.0psf 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.
- 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 at joint(s) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=139.



April 30,2025



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116284 J0225-1020 P3 MONOPITCH 6

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:48 2025 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

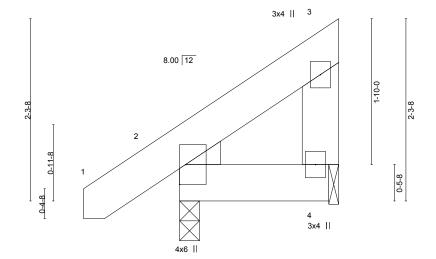
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.

2-0-0 1-2-8

Scale = 1:14.5



2-0-0

BRACING-

TOP CHORD

BOT CHORD

| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|--------|---------|----------------------|----------|-------------|----------|--------|-----|---------------|----------|
| TCLL | 20.0 | Plate Grip DOL 1.15 | TC 0.03 | Vert(LL) -0 | 0.00 2 | >999 | 360 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.15 | BC 0.05 | Vert(CT) -0 | 0.00 2 | >999 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) | 0.00 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2021/TPI2014 | Matrix-P | Wind(LL) | 0.00 2 | **** | 240 | Weight: 18 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 **WEBS** 2x6 SP No.1

WEDGE Left: 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 4=0-1-8

Max Horz 2=60(LC 12)

Max Uplift 2=-3(LC 12), 4=-27(LC 12) Max Grav 2=157(LC 1), 4=60(LC 19)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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 30.0psf 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.
- 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.



April 30,2025



| Job | Truss | Truss Type | Qty | Ply | Lot 23 Magnolia Hills | 7 |
|------------|-------|------------|-----|-----|--------------------------|---|
| 10225 1020 | DACE | MONODITCH | 4 | 1 | 173116285 | |
| J0225-1020 | P4GE | MONOPITCH | 1 | 1 | Job Reference (optional) | |

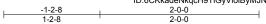
Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:48 2025 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

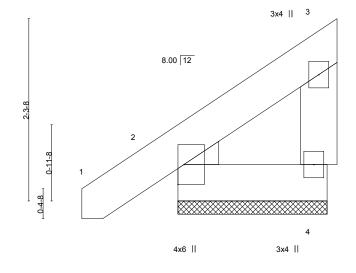
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.



Scale = 1:14.5



| LOADING (psf) TCLL 20.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 | CSI. TC 0.04 | DEFL. in Vert(LL) 0.00 | ` ' | | PLATES MT20 | GRIP 244/190 |
|-------------------------|---|------------------------|-------------------------------|-----|--------------------|----------------|---------------------|
| TCDL 20.0 | Plate Grip DOL 1.15 Lumber DOL 1.15 | BC 0.04 | Vert(CT) -0.00 | | ı/r 120 ı/r 120 | MIT20 | 244/190 |
| BCLL 0.0 * BCDL 10.0 | Rep Stress Incr YES Code IRC2021/TPI2014 | WB 0.00 Matrix-P | Horz(CT) 0.00 | n | /a n/a | Weight: 18 lb | FT = 20% |

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 **WEBS** 2x6 SP No.1

WEDGE Left: 2x4 SP No.2

REACTIONS.

(size) 4=1-10-8, 2=1-10-8

Max Horz 2=87(LC 12)

Max Uplift 4=-46(LC 12), 2=-25(LC 12) Max Grav 4=64(LC 19), 2=155(LC 1)

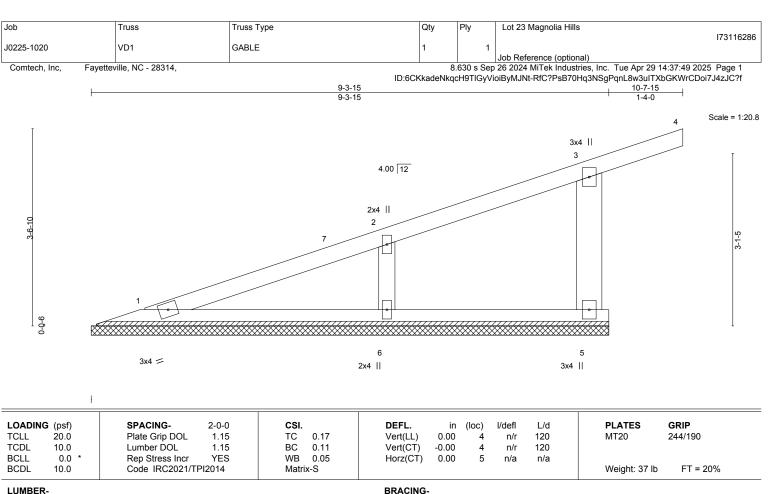
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.









TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SP No.1 **OTHERS** 2x4 SP No.2

REACTIONS. (size) 1=9-3-15, 5=9-3-15, 6=9-3-15

Max Horz 1=102(LC 8) Max Uplift 5=-68(LC 9), 6=-55(LC 8)

Max Grav 1=137(LC 1), 5=226(LC 1), 6=378(LC 1)

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

TOP CHORD 3-5=-201/266 WEBS 2-6=-272/293

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-11-11 to 5-3-15, Interior(1) 5-3-15 to 10-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.



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

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

except end verticals.

April 30,2025



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 bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116287 J0225-1020 VD2 VALLEY Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:49 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-3-15 5-3-15 1-4-0 Scale = 1:13.8 3 3x4 || 4.00 12 9-0-0 5 3x4 || 3x4 = 5-2-13 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/def 20.0 Plate Grip DOL 1.15 Vert(LL) 0.00 120 244/190 **TCLL** TC 0.18 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) 0.01 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2021/TPI2014 **BCDL** 10.0 Matrix-P Weight: 19 lb FT = 20% BRACING-LUMBER-TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins,

BOT CHORD

except end verticals.

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

BOT CHORD 2x4 SP No.1

WEBS 2x6 SP No.1

REACTIONS.

1=5-2-13, 5=5-2-13 (size) Max Horz 1=59(LC 8) Max Uplift 5=-68(LC 9)

Max Grav 1=138(LC 1), 5=290(LC 1)

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

TOP CHORD 2-5=-243/369

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-11-11 to 5-4-8, Interior(1) 5-4-8 to 6-7-15 zone; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 5) Non Standard bearing condition. Review required.







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 bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116288 J0225-1020 VH1 VALLEY Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:49 2025 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-6-5 6-6-5 13-0-9 6-6-4

Scale = 1:20.6

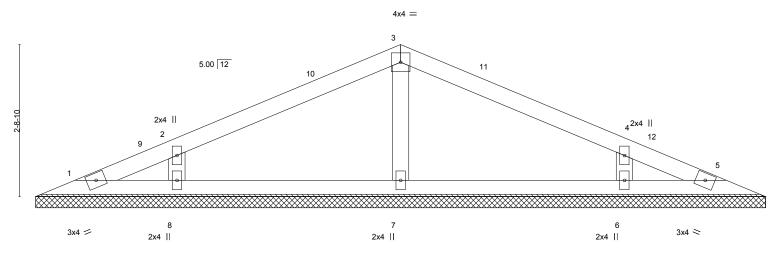


Plate Offsets (X,Y)--[4:0-0-0,0-0-0]

| LOADING | G (psf) | SPACING- 2 | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------|---------|--------------------|-------|-------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | n/a | ` - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2021/TPI20 | 014 | Matri | x-S | , , | | | | | Weight: 43 lb | FT = 20% |

LUMBER-BRACING-

2x4 SP No.1 **TOP CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD BOT CHORD 2x4 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 13-0-9. Max Horz 1=-29(LC 17) (lb) -

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

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=295(LC 1), 8=296(LC 25), 6=296(LC 26)

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

2-8=-233/251, 4-6=-233/251 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-8-12 to 5-1-9, Interior(1) 5-1-9 to 6-6-5, Exterior(2R) 6-6-5 to 10-11-1, Interior(1) 10-11-1 to 12-3-13 zone; C-C for members and forces & MWFRS for reactions shown; 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 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.

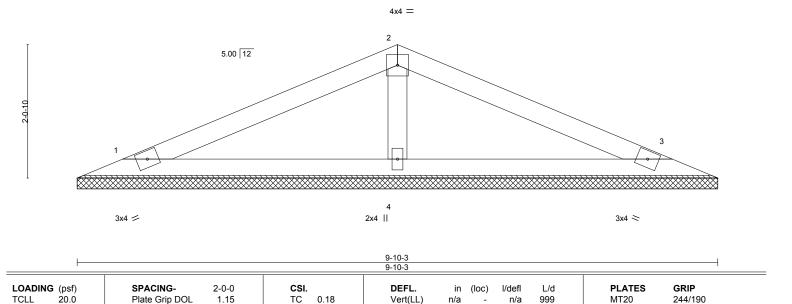


April 30,2025



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116289 J0225-1020 VH2 VALLEY Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:50 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 4-11-1 4-11-2

Scale = 1:17.7



Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

0.00

n/a

n/a

3

999

n/a

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

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

Weight: 30 lb

FT = 20%

LUMBER-

REACTIONS.

TCDL

BCLL

BCDL

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

OTHERS 2x4 SP No.2

10.0

0.0

10.0

1=9-10-3, 3=9-10-3, 4=9-10-3 (size) Max Horz 1=21(LC 16)

Max Uplift 1=-20(LC 12), 3=-24(LC 13), 4=-2(LC 12) Max Grav 1=151(LC 25), 3=151(LC 26), 4=375(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2021/TPI2014

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

2-4=-252/236 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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

ВС

WB

Matrix-S

0.13

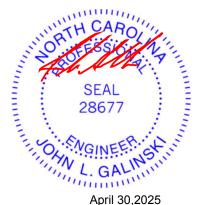
0.04

- 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.

1.15

YES

- 5) * This truss has been designed for a live load of 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.





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 bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 173116290 J0225-1020 VH3 VALLEY Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 29 14:37:50 2025 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 3-3-14 3-3-14 3-3-15

Scale = 1:12.2

3x4 =

2 5.00 12

> 3x4 = 3x4 ≥

6-7-13

| Plate Off | Plate Offsets (X,Y) [2:0-2-0,Edge] | | | | | | | | | | | |
|-----------|------------------------------------|-----------------|--------|-------|------|----------|------|-------|--------|-----|---------------|----------|
| LOADIN | VI / | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 20.0 | Plate Grip DOL | 1.15 | TC | 0.13 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.26 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2021/TF | PI2014 | Matri | x-P | | | | | | Weight: 18 lb | FT = 20% |

TOP CHORD

BOT CHORD

BRACING-LUMBER-

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

> (size) 1=6-7-13, 3=6-7-13 Max Horz 1=-13(LC 17)

> Max Uplift 1=-13(LC 12), 3=-13(LC 13) Max Grav 1=208(LC 1), 3=208(LC 1)

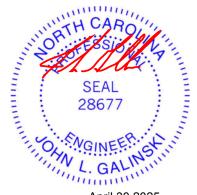
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-226/256

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) Non Standard bearing condition. Review required.



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

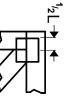
Rigid ceiling directly applied or 10-0-0 oc bracing.

April 30,2025

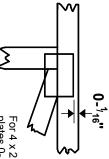


Symbols

PLATE LOCATION AND ORIENTATION



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



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

connector plates required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

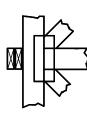
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



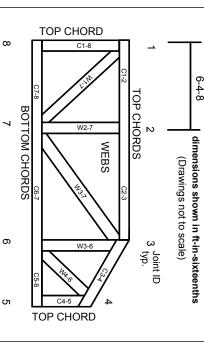
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Trusses Plate Connected Wood Truss Construction.

DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- ယ Never exceed the design loading shown and never stack materials on inadequately braced trusses
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

5

- 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.

œ

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



RE: J0225-1021

Lot 23 Magnolia Hills

Trenco

818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0225-1021

Lot/Block: Model: Address: Subdivision: City: State:

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: N/A Wind Speed: N/A mph Floor Load: 55.0 psf Roof Load: N/A psf

This package includes 7 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|----------|
| 1 | 172570274 | ET1 | 4/8/2025 |
| 2 | 172570275 | F1 | 4/8/2025 |
| 3 | 172570276 | F1-A | 4/8/2025 |
| 4 | 172570277 | F2 | 4/8/2025 |
| 5 | 172570278 | F3 | 4/8/2025 |
| 6 | 172570279 | F4 | 4/8/2025 |
| 7 | 172570280 | FG1 | 4/8/2025 |
| | | | |

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Galinski, John

My license renewal date for the state of North Carolina is December 31, 2025

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



April 08, 2025

| Job | Truss | Truss Type | Qty | Ply | Lot 23 Magnolia Hills | 7 |
|------------|-------|------------|-----|-----|--------------------------|---|
| J0225-1021 | ET1 | GABLE | 1 | 1 | 172570274 | |
| 30223-1021 | | GABLE | ' | ' | Job Reference (optional) | |

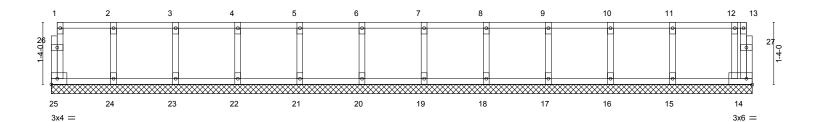
Fayetteville, NC - 28314, Comtech, Inc,

0118

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 7 09:56:37 2025 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0₁1₇8

Scale = 1:24.7



| 1-4-0 1-4-0 | 2-8-0 4-0-0 5-4-0 1-4-0 1-4-0 1-4-0 | | 8-0-0 9-4-0 1-4-0 1-4-0 | 10-8-0 1-4-0 1-4-0 | 13-4-0 1-4-0 | 14-8-0 15-0-8 1-4-0 0-4-8 |
|---|---|---|---|--|---------------------------------|--|
| LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0 | SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014 | CSI. TC 0.07 BC 0.02 WB 0.03 Matrix-R | DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00 | (loc) I/defl L/d - n/a 999 - n/a 999 14 n/a n/a | PLATES MT20 Weight: 68 lb | GRIP 244/190 FT = 20%F, 11%E |

LUMBER-BRACING-

2x4 SP No.1(flat) TOP CHORD 2x4 SP No.1(flat) **BOT CHORD**

2x4 SP No.3(flat) **WEBS OTHERS** 2x4 SP No.3(flat)

Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD except end verticals.

BOT CHORD

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

REACTIONS. All bearings 15-0-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



April 8,2025







| Job | Truss | Truss Type | Qty | Ply | Lot 23 Magnolia Hills | ٦ |
|------------|-------|------------|-----|-----|--------------------------|-----|
| 1000= 4004 | | 5,005 | | | 172570275 | , |
| J0225-1021 | F1 | FLOOR | 8 | 1 | | |
| | | | | | Job Reference (optional) | - 1 |

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 7 09:56:38 2025 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

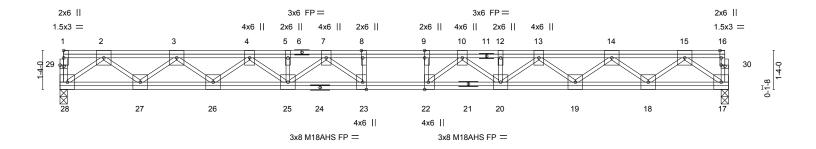
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





0-1-8 Scale = 1:39.5



22-11-0 Plate Offsets (X,Y)--[8:0-3-0,Edge], [9:0-3-0,0-0-0], [16:0-3-0,Edge], [22:0-3-0,Edge], [23:0-3-0,Edge], [29:0-1-8,0-0-8], [30:0-1-8,0-0-8] LOADING (psf) SPACING-CSI. (loc) **PLATES GRIP** -0.32 22-23 TCLL 40.0 Plate Grip DOL 1.00 TC 0.16 Vert(LL) >846 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 ВС 0.62 Vert(CT) -0.44 22-23 >615 360 M18AHS 186/179 BCLL 0.0 Rep Stress Incr YES WB 0.65 0.05 Horz(CT) 17 n/a n/a Code IRC2021/TPI2014 FT = 20%F. 11%E **BCDL** 5.0 Matrix-S Weight: 181 lb

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.1(flat) BOT CHORD

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 28=0-3-0, 17=0-3-0

Max Grav 28=1240(LC 1), 17=1240(LC 1)

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

TOP CHORD 2-3=-2545/0, 3-4=-4416/0, 4-5=-5726/0, 5-7=-5726/0, 7-8=-6351/0, 8-9=-6351/0,

9-10=-6351/0, 10-12=-5726/0, 12-13=-5726/0, 13-14=-4416/0, 14-15=-2544/0 BOT CHORD

27-28=0/1512, 26-27=0/3635, 25-26=0/5170, 23-25=0/6105, 22-23=0/6351, 20-22=0/6104,

19-20=0/5170, 18-19=0/3635, 17-18=0/1512

WFBS 2-28=-1869/0, 2-27=0/1370, 3-27=-1442/0, 3-26=0/1034, 4-26=-999/0, 4-25=0/721, 15-17=-1869/0, 15-18=0/1370, 14-18=-1443/0, 14-19=0/1034, 13-19=-998/0,

13-20=0/720, 10-20=-555/0, 7-25=-546/0, 7-23=-197/767, 8-23=-367/45, 9-22=-385/48,

10-22=-192/772

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 6x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



April 8,2025



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| Job | | Truss | Truss Type | Qty | Ply | Lot 23 Magnolia Hills | ٦ |
|-------|-------|-------|------------|-----|-----|--------------------------|---|
| | | | | | | 172570276 | i |
| J0225 | -1021 | F1-A | FLOOR | 1 | 1 | | |
| | | | | | | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 7 09:56:39 2025 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

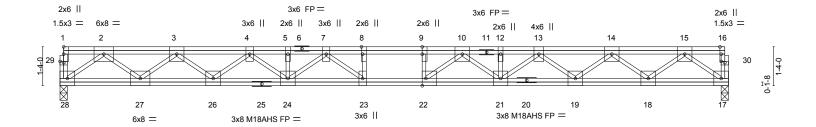
Rigid ceiling directly applied or 10-0-0 oc bracing.

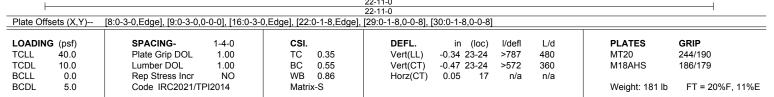
except end verticals.



1-11-0

0-1-8 Scale = 1:39.5





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 28=0-3-0, 17=0-3-0

Max Grav 28=1777(LC 1), 17=1106(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3522/0, 3-4=-5889/0, 4-5=-7262/0, 5-7=-7262/0, 7-8=-7113/0, 8-9=-7113/0, 9-10=-7113/0, 10-12=-5741/0, 12-13=-5741/0, 13-14=-4244/0, 14-15=-2349/0

BOT CHORD 27-28=0/2157, 26-27=0/4991, 24-26=0/6791, 23-24=0/7461, 22-23=0/7113, 21-22=0/6368,

19-21=0/5051, 18-19=0/3399, 17-18=0/1363

2-28=-2666/0, 2-27=0/1811, 3-27=-1944/0, 3-26=0/1188, 4-26=-1193/0, 4-24=0/611, WFBS

15-17=-1685/0, 15-18=0/1308, 14-18=-1390/0, 14-19=0/1118, 13-19=-1067/0,

13-21=0/896, 10-21=-850/0, 10-22=0/1259, 9-22=-538/0, 7-24=-295/0, 7-23=-789/0,

8-23=0/267

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 6x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-28=-7, 1-8=-187, 8-16=-67



April 8,2025



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| Job | Truss | Truss Type | Qty | Ply | Lot 23 Magnolia Hills |
|------------|-------|------------|-----|-----|--------------------------|
| J0225-1021 | E2 | Eleor | 4 | 1 | 172570277 |
| 30225-1021 | F2 | Floor | 4 | ' | Job Reference (optional) |

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 7 09:56:40 2025 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

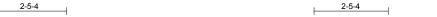
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

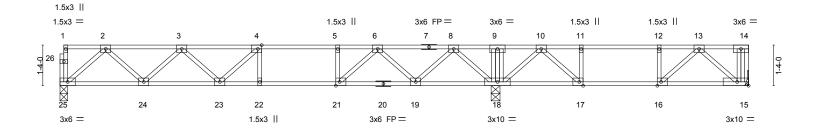
except end verticals.

6-0-0 oc bracing: 17-18.

Scale = 1:37.9







| | 22-7-8 | | | | | | | | |
|------------------------------|--|--|--|--|--|--|--|--|--|
| 14-3-12 | | | | | | | | | |
|)-1-8,Edge], [21:0-1-8,Edge] | | | | | | | | | |
| | | | | | | | | | |
| CSI. DEFL. in (I | loc) I/defl L/d PLATES GRIP | | | | | | | | |
| TC 0.63 Vert(LL) -0.17 22 | -23 >978 480 MT20 244/190 | | | | | | | | |
| BC 0.85 Vert(CT) -0.23 22 | -23 >747 360 | | | | | | | | |
| WB 0.36 Horz(CT) 0.03 | 15 n/a n/a | | | | | | | | |
| Matrix-S | Weight: 118 lb FT = 20%F, 11%E | | | | | | | | |
| | CSI. DEFL. in (I TC 0.63 BC 0.85 Vert(CT) -0.23 22 WB 0.36 Horz(CT) 0.03 | | | | | | | | |

BOT CHORD

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) **WEBS** 2x4 SP No.3(flat)

(size) 25=0-3-0, 18=0-3-8, 15=Mechanical

Max Grav 25=763(LC 10), 18=1306(LC 1), 15=438(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1335/0, 3-4=-2037/0, 4-5=-2163/0, 5-6=-2163/0, 6-8=-1234/0, 8-9=0/449,

9-10=0/449, 10-11=-684/0, 11-12=-684/0, 12-13=-684/0

 $24 - 25 = 0/810,\ 23 - 24 = 0/1835,\ 22 - 23 = 0/2163,\ 21 - 22 = 0/2163,\ 19 - 21 = 0/1756,\ 18 - 19 = 0/715,$ BOT CHORD

17-18=-107/393, 16-17=0/684, 15-16=0/446

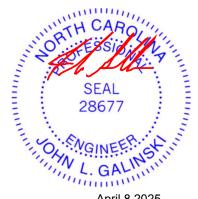
2-25=-1076/0, 2-24=0/729, 3-24=-697/0, 3-23=0/312, 8-18=-1157/0, 8-19=0/749, WFBS 6-19=-770/0, 6-21=0/709, 4-23=-309/20, 5-21=-331/0, 10-18=-659/0, 10-17=0/577,

11-17=-322/0, 13-15=-573/0, 13-16=-12/324

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



April 8,2025



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/TPII 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)



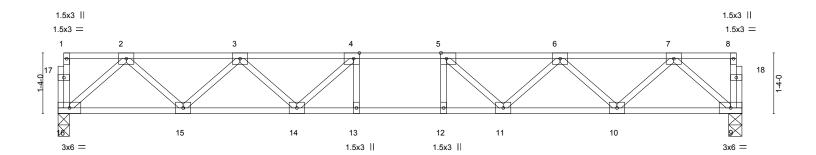
| Job | Truss | Truss Type | Qty | Ply | Lot 23 Magnolia Hills |
|------------|-------|------------|-----|-----|--------------------------|
| | | | _ | | 172570278 |
| J0225-1021 | F3 | Floor | 8 | 1 | |
| | | | | | Job Reference (optional) |

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 7 09:56:40 2025 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0₇1₇8 Scale = 1:25.3





| | | | | | | 15-0-8 | | | | | |
|------------------|----------------|--------------------|-------|--------|------|----------|-------------|--------|-----|---------------|-----------------|
| Plate Offsets (> | ,Y) [4:0-1-8,E | Edge], [5:0-1-8,Ed | dge] | | | | | | | | |
| 1045000 | | | 0.00 | 201 | | BEE! | | 1/1 0 | | DI 4750 | ODID |
| LOADING (psf | SF | PACING- | 2-0-0 | CSI. | | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | Pla | ate Grip DOL | 1.00 | TC | 0.32 | Vert(LL) | -0.12 13-14 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lu | ımber DOL | 1.00 | BC | 0.66 | Vert(CT) | -0.16 13-14 | >999 | 360 | | |
| BCLL 0.0 | Re | ep Stress Incr | YES | WB | 0.37 | Horz(CT) | 0.04 9 | n/a | n/a | | |
| BCDL 5.0 | Co | ode IRC2021/TP | 12014 | Matrix | x-S | ` ′ | | | | Weight: 78 lb | FT = 20%F, 11%E |

15-0-8

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals.

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 16=0-3-0, 9=0-3-8 Max Grav 16=807(LC 1), 9=807(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1429/0, 3-4=-2223/0, 4-5=-2473/0, 5-6=-2223/0, 6-7=-1429/0

BOT CHORD $15 - 16 = 0/864,\ 14 - 15 = 0/1965,\ 13 - 14 = 0/2473,\ 12 - 13 = 0/2473,\ 11 - 12 = 0/2473,\ 10 - 11 = 0/1965,\ 13 - 14 = 0/2473,\ 12 - 13 = 0/2473,\ 11 - 12 = 0/2473,\ 10 - 11 = 0/1965,\ 11 - 12 = 0/2473,\ 11 - 12 = 0/2473,\ 10 - 11 = 0/1965,\ 11 - 12 = 0/2473,\ 11 - 12 = 0/2473,\ 11 - 12 = 0/2473,\ 10 - 11 = 0/1965,\ 11 - 12 = 0/2473,\ 11 - 12 = 0/$

9-10=0/864

 $2-16 = -1147/0, \ 2-15 = 0/787, \ 3-15 = -745/0, \ 3-14 = 0/412, \ 7-9 = -1147/0, \ 7-10 = 0/787, \ 3-15 = -745/0, \ 3-14 = 0/412, \ 7-9 = -1147/0, \ 7-10 = 0/787, \ 3-15 = -745/0, \ 3-14 = 0/412, \ 7-9 = -1147/0, \ 7-10 = 0/787, \ 3-15 = -745/0, \ 3-14 = 0/412, \ 7-9 = -1147/0, \ 7-10 = 0/787, \ 3-15 = -745/0, \ 3-14 = 0/412, \ 7-9 = -1147/0, \ 7-10 = 0/787, \ 3-15 = -745/0, \ 3-14 = 0/412, \ 7-9 = -1147/0, \ 7-10 = 0/787, \ 3-15 = -745/0, \ 3-14 = 0/412, \ 7-9 = -1147/0, \ 7-10 = 0/787, \ 3-15 = -745/0, \ 3-14 = 0/412, \ 7-9 = -1147/0, \ 7-10 = 0/787, \ 3-15 = -745/0, \ 3-14 = 0/412, \ 3-14 = 0/$ **WEBS**

6-10=-745/0, 6-11=0/412, 5-11=-501/0, 4-14=-501/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



April 8,2025

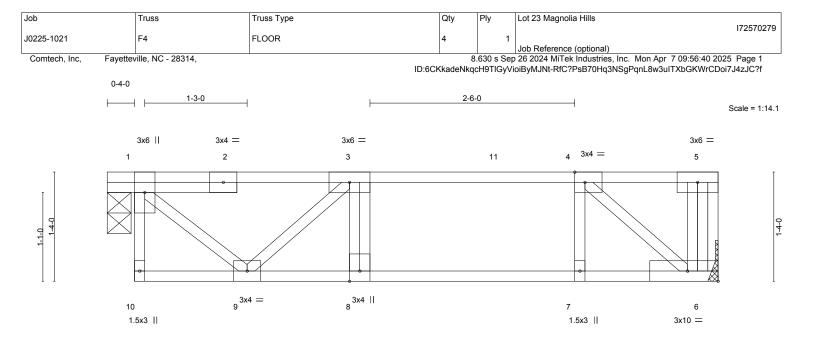




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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/TPII 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)





0-4-0

TOP CHORD

BOT CHORD

| Plate Off | sets (X,Y) | [4:0-1-8,Eage] | | | |
|-----------|------------|----------------------|----------|----------------------------------|-----------------|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d PLATES | GRIP |
| TCLL | 40.0 | Plate Grip DOL 1.00 | TC 0.42 | Vert(LL) -0.04 8 >999 480 MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL 1.00 | BC 0.30 | Vert(CT) -0.04 8 >999 360 | |
| BCLL | 0.0 | Rep Stress Incr NO | WB 0.23 | Horz(CT) 0.01 6 n/a n/a | |
| BCDL | 5.0 | Code IRC2021/TPI2014 | Matrix-S | Weight: 42 lb | FT = 20%F, 11%E |

LUMBER-BRACING-

2x4 SP No.1(flat) TOP CHORD BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 6=Mechanical, 1=0-3-8 Max Grav 6=628(LC 1), 1=436(LC 1)

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

1-3=-363/0, 3-4=-674/0 8-9=0/674, 7-8=0/674, 6-7=0/674 TOP CHORD

BOT CHORD 1-9=0/475, 3-9=-420/0, 4-6=-852/0 **WEBS**

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 6-10=-10, 1-11=-100, 5-11=-220



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

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

except end verticals.

April 8,2025





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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 23 Magnolia Hills 172570280 J0225-1021 FG1 FLOOR GIRDER Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Apr 7 09:56:41 2025 Page 1

Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

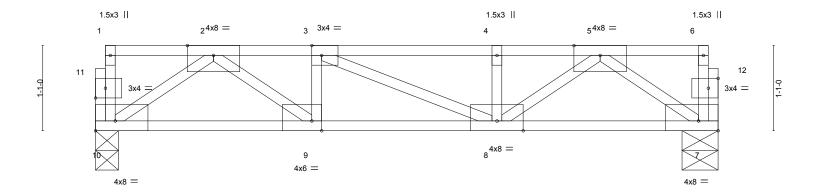
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



0_[1-8 Scale = 1:14.6



| Plate Off | e Offsets (X,Y) [3:0-1-8,Edge], [7:Edge,0-1-8], [9:0-1-8,Edge], [10:Edge,0-1-8], [11:0-1-8,0-1-8], [12:0-1-8,0-1-8] | | | | | | | | | | | |
|-----------|---|-----------------|--------|-------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| LOADIN | G (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.68 | Vert(LL) | -0.06 | 8-9 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.71 | Vert(CT) | -0.08 | 8-9 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.74 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2021/Ti | PI2014 | Matri | x-P | | | | | | Weight: 42 lb | FT = 20%F, 11%E |

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 10=0-3-8, 7=0-5-8 Max Grav 10=1735(LC 1), 7=1735(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-10=-261/0, 6-7=-261/0, 2-3=-3357/0, 3-4=-3359/0, 4-5=-3359/0 9-10=0/2110, 8-9=0/3357, 7-8=0/2110 TOP CHORD

BOT CHORD

2-10=-2551/0, 2-9=0/1544, 3-9=-888/0, 5-7=-2551/0, 5-8=0/1546, 4-8=-890/0 **WEBS**

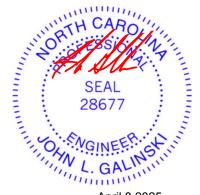
NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 7-10=-10, 1-6=-450



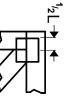
April 8,2025



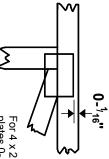


Symbols

PLATE LOCATION AND ORIENTATION



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



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

connector plates required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

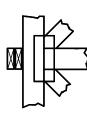
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



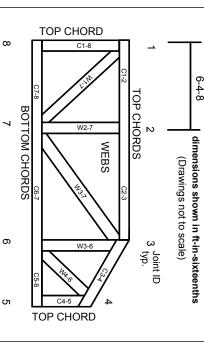
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Trusses Plate Connected Wood Truss Construction.

DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- ယ Never exceed the design loading shown and never stack materials on inadequately braced trusses
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

5

- 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.

œ

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

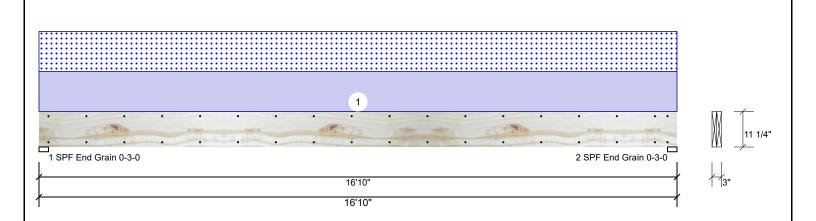


Date: 4/29/2025

Input by: Neal Baggett Job Name: LOT 23 MAGNOLIA HILLS Page 1 of 12

2.000" X 12.000" 2-Ply - PASSED **GDH SP #2**

Level: Level



| Member Inf | ormation | | Rea | Reactions UNPATTERNED lb (Uplift) | | | | | | | | |
|----------------|---------------|----------------|--------------|-----------------------------------|-----------|------|------|------|------|-------|--|--|
| Type: | Girder | Application: | Floor | Brg | Direction | Live | Dead | Snow | Wind | Const | | |
| Plies: | 2 | Design Method: | ASD | 1 | Vertical | 0 | 337 | 337 | 0 | 0 | | |
| Moisture Cond | ition: Dry | Building Code: | IBC/IRC 2015 | 2 | Vertical | 0 | 337 | 337 | 0 | 0 | | |
| Deflection LL: | 480 | Load Sharing: | No | | | | | | | | | |
| Deflection TL: | 360 | Deck: | Not Checked | | | | | | | | | |
| Importance: | Normal - II | | | | | | | | | | | |
| Temperature: | Temp <= 100°F | | | | | | | | | | | |

Bearings Bearing Length

End Grain

End Grain

1-SPF 3.000"

2 - SPF 3.000"

Dir.

Vert

Vert

Cap. React D/L lb

337 / 337

337 / 337

13%

13%

Total Ld. Case

673 L

673 L

Ld. Comb.

D+S

D+S

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|-----------|---------------|-----------------|-------|------|
| Moment | 2709 ft-lb | 8'5" | 4548 ft-lb | 0.596 (60%) | D+S | L |
| Unbraced | 2709 ft-lb | 8'5" | 2710 ft-lb | 1.000 (100%) | D+S | L |
| Shear | 578 lb | 1'2 1/4" | 4528 lb | 0.128 (13%) | D+S | L |
| LL Defl inch | 0.133 (L/1490) | 8'5 1/16" | 0.411 (L/480) | 0.322 (32%) | S | L |
| TL Defl inch | 0.265 (L/745) | 8'5 1/16" | 0.549 (L/360) | 0.483 (48%) | D+S | L |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 14' 3/16" o.c.
- 7 Bottom must be laterally braced at end bearings.

| 8 Lateral slende | rness ratio based on single | | | | | | | | | |
|------------------|-----------------------------|----------|------------|------|----------|--------|-----------|---------------|----------|----------|
| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 Cons | st. 1.25 | Comments |
| 1 | Uniform | | | Тор | 40 PLF | 0 PLF | 40 PLF | 0 PLF | 0 PLF | P3 |
| | | | | | | | | | | |

This design is valid until 6/28/2026

Manufacturer Info

| SP# | | Client: | | Date: | 4/29/2025 | Page 2 of 12 |
|--|-------------------------------------|---------------------------|----------------------------------|-----------|-----------------------|------------------|
| GDH SP #2 2.000" X 12.000" 2-Ply - PASSED 1 3PP tend (sion 6.3.0] | Tic Dociera | Project: | | Input by: | Neal Baggett | |
| GDH SP #2 2.000" X 12.000" 2-Ply - PASSED Series Ser | Ispesign | Address: | | | LOT 23 MAGNOLIA HILLS | |
| 1 SPF End Grain 0.3-0 2 SPF End Grain 0.3-0 1 1/4" | | | | | ovel: Lovel | |
| 1 SPF End Grain 0-3-0 18 TO* Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". Apacity 0.0 % on 0.0 % on 0.0 FLF freed Limit per Food 10.73 lb. Apacity 1.0 Company 1 | GDH SP #2 | 2.000" X 12.000" | 2-Ply - PASSED | - | evel: Level | |
| 1 SPF End Grain 0-3-0 18 TO* Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". Apacity 0.0 % on 0.0 % on 0.0 FLF freed Limit per Food 10.73 lb. Apacity 1.0 Company 1 | | | | | | |
| SPF End Grain 0-3-0 18 TO* Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". Agency 0.0 % on 0.0 % on 0.0 PLF freed Linking en Floor 100 3.1b. Affeld Mode IV Affeld Mode IV Affeld Mode II 110" Affeld Fasten II 100" Affeld Fasten II 100 The Agency II 100 Manufacture in 100 Manuf | | | | | | |
| SPF End Grain 0-3-0 18 TO* Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". Agency 0.0 % on 0.0 % on 0.0 PLF freed Linking en Floor 100 3.1b. Affeld Mode IV Affeld Mode IV Affeld Mode II 110" Affeld Fasten II 100" Affeld Fasten II 100 The Agency II 100 Manufacture in 100 Manuf | | | | | | |
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| 1 SPF End Grain 0-3-0 18 TO* Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". Apacity 0.0 % on 0.0 % on 0.0 FLF freed Limit per Food 10.73 lb. Apacity 1.0 Company 1 | | | | | | |
| 1 SPF End Grain 0-3-0 18 TO* Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". Apacity 0.0 % on 0.0 % on 0.0 FLF freed Limit per Food 10.73 lb. Apacity 1.0 Company 1 | | | | | | |
| 1 SPF End Grain 0-3-0 10°T0° | | | | | | |
| 1 SPF End Grain 0-3-0 10°T0° | | | | | | . |
| 1 SPF End Grain 0-3-0 10°T0° | • • • | • • • • | | • • | | \$ m \(\psi\) |
| Multi-Ply Analysis Faster all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". Ageodry 0.0% o.od 0.0 PLF (refeb Limit per Featherer 101.3 lb. Anim End Distance 110" This design is valid until 62892026 | | | | | | √ |
| Multi-Ply Analysis Faster all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". Japacity 0.0% 0.0% 0.00 0.00 0.00 0.00 0.00 0.0 | | · · · · · | • • • | • • | | * W - |
| Multi-Ply Analysis Pasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c., Maximum end distance not to exceed 6". Japadry 0.0 % Load 0.0 PLF Frield Limit per Fastener 101.3 B. Frield Morde 1V Japadry 10.2 B. Japadry 10.3 B. Japadry 10.3 B. Japadry 10.4 B. | 1 SPF End Grain 0-3-0 | | | | 2 SPF End Grain 0-3-0 | /\ |
| Multi-Ply Analysis Pasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c., Maximum end distance not to exceed 6". Japado 0.PLF Froide Limb per Foot in Tastener 101.3 (b. 10.1) Froide Morde V Josephalanco 11.2" Josephalanco 3" Josephalanco 3" Josephalanco 11.00 Juriston Factor 1.00 This design is valid until 8/28/2028 | / | | 16'10" | | | / 3" |
| Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6". Japacoly 0.0% John 10 | | | | | | ا ای |
| Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". Japacity 0.0 % Load 0.0 PLF Frield Limit per Footo 202.8 PLF Frield Limit per Fastener 10 1.3 lb. Frield Mode N Fried Mode N Frield Mode N Friel | 1 | | 16'10" | - | | |
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| Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c Maximum end distance not to exceed 6". Japacity 0.0 % Load 0.0 PLF Frield Limit per Footo 202.8 PLF Frield Limit per Fastener 10 1.3 lb. Frield Mode N Fried Mode N Frield Mode N Friel | M | | | | | |
| Depart D | = = | | | | | |
| Company Comp | | | t 12" o.c Maximum end dis | stance no | t to exceed 6". | |
| Fried Limit per Foot 202.6 PLF Fried Limit per Fost 101.3 lb. 2.5 | | | | | | |
| This design is valid until 828,2028 This design is valid until 828,2028 The des | Load | | | | | |
| This design is valid until 6282028 | | | | | | |
| Manufacturer Info | | | | | | |
| 1/2* | См | 1 | | | | |
| Manufacturer Info | Yield Mode | IV | | | | |
| Manufacturer Info | Edge Distance | 1 1/2" | | | | |
| | Min. End Distance | | | | | |
| Duration Factor 1.00 Manufacturer Info This design is valid until 6282026 | | | | | | |
| Manufacturer Info This design is valid until 6/28/2026 | | 1.00 | | | | |
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| | | | | [1 | Manufacturer Info | |
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| Version 23.40.705 Powered by iStruct™ Dataset: 24051401.1529 | | | This design is valid until 6/28/ | 2026 | | |
| | Version 23.40.705 Powered by iStruc | t™ Dataset: 24051401.1529 | | | CSD | DRAW DESIGN |



4/29/2025 Input by: Neal Baggett

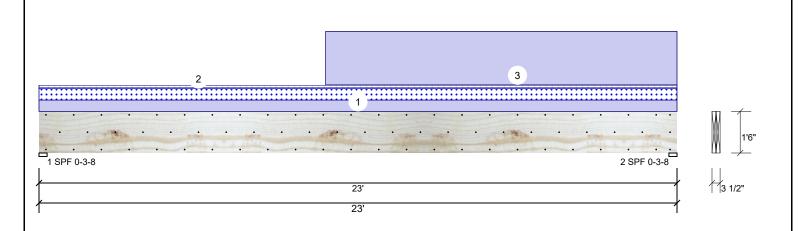
Job Name: LOT 23 MAGNOLIA HILLS

Page 3 of 12

Project #:

1.750" X 18.000" 2-Ply - PASSED Kerto-S LVL DB₁

evel: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Application: Wind Type: Brg Direction Live Dead Snow Const Plies: 2 Design Method: ASD 278 1762 621 0 Vertical 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 278 3241 621 0 0 Deflection LL: 480 Load Sharing: No Deflection TL: 360 Deck: Not Checked Importance: Normal - II Temperature: Temp <= 100°F **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+0.75(L+S) 1-SPF 3.500" Vert 1762 / 674 2436 L D+0.75(L+S) 2 - SPF 3.500" Vert 75% 3241 / 674 3915 L

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|--------------|---------------|-----------------|-------------|---------|
| Moment | 15112 ft-lb | 13'2 7/8" | 38683 ft-lb | 0.391 (39%) | D | Uniform |
| Unbraced | 18767 ft-lb | 12'11 3/4" | 18779 ft-lb | 0.999 (100%) | D+0.75(L+S) | L |
| Shear | 2761 lb | 21'2 1/2" | 12096 lb | 0.228 (23%) | D | Uniform |
| LL Defl inch | 0.107 (L/2523) | 11'6 1/16" | 0.564 (L/480) | 0.190 (19%) | 0.75(L+S) | L |
| TL Defl inch | 0.522 (L/519) | 11'11 11/16" | 0.752 (L/360) | 0.694 (69%) | D+0.75(L+S) | L |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 7'1 3/8" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

| | | 5 1 7 | | | | | | | | |
|----|---------------|------------------|------------|-----------|----------|--------|-----------|----------|-------------|---------------|
| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
| 1 | Uniform | | | Near Face | 54 PLF | 0 PLF | 54 PLF | 0 PLF | 0 PLF | P TRUSSES |
| 2 | Tie-In Far | 0-0-0 to 23-0-0 | 0-7-4 | Far Face | 15 PSF | 40 PSF | 0 PSF | 0 PSF | 0 PSF | FLOOR LOADING |
| 2 | Tie-In Near | 0-0-0 to 23-0-0 | 0-0-0 | Тор | 15 PSF | 40 PSF | 0 PSF | 0 PSF | 0 PSF | FLOOR LOADING |
| 3 | Part. Uniform | 10-4-0 to 23-0-0 | | Тор | 255 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | WALL & C1GE |
| | Self Weight | | | | 14 PLF | | | | | |

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- approvals

 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851

(800) 622-5850 www.metsawood.com/us

This design is valid until 6/28/2026

isDesign

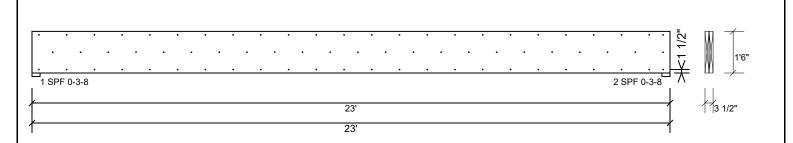
Client: Project: Address: 4/29/2025

Input by: Neal Baggett Job Name: LOT 23 MAGNOLIA HILLS Page 4 of 12

Project #:

2-Ply - PASSED 1.750" X 18.000" **Kerto-S LVL** DB₁

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| | • | , |
|--------------------------|-----------|---|
| Capacity | 19.1 % | |
| Load | 54.0 PLF | |
| Yield Limit per Foot | 282.4 PLF | |
| Yield Limit per Fastener | 94.1 lb. | |
| См | 1 | |
| Yield Mode | IV | |
| Edge Distance | 1 1/2" | |
| Min. End Distance | 3" | |
| Load Combination | D+S | |
| Duration Factor | 1.15 | |

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

- Handling & Installation
- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

- For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851

(800) 622-5850 www.metsawood.com/us

Manufacturer Info



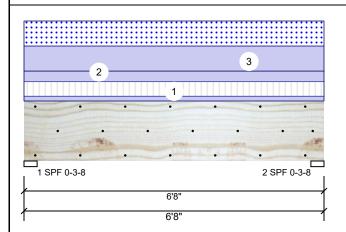
4/29/2025 Input by: Neal Baggett

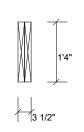
Job Name: LOT 23 MAGNOLIA HILLS

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL** FB2

Level: Level

Reactions UNPATTERNED Ib (Uplift)





Page 5 of 12

Member Information

| Type. | Gildei |
|---------------------|---------------|
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 360 |
| Importance: | Normal - II |
| Temperature: | Temp <= 100°F |
| | |

Application: Floor Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

| Brg | Direction | Live | Dead | Snow | Wind | Const |
|-----|-----------|------|------|------|------|-------|
| 1 | Vertical | 540 | 1558 | 937 | 0 | 0 |
| 2 | Vertical | 540 | 1558 | 937 | 0 | 0 |
| | | | | | | |

Bearings

| Bearing | Length | Dir. | Сар. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------|------|--------------|-------|----------|-------------|
| 1 - SPF | 3.500" | Vert | 51% | 1558 / 1108 | 2666 | L | D+0.75(L+S) |
| 2 - SPF | 3.500" | Vert | 51% | 1558 / 1108 | 2666 | L | D+0.75(L+S) |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|----------|---------------|-------------|-------------|------|
| Moment | 3879 ft-lb | 3'4" | 39750 ft-lb | 0.098 (10%) | D+0.75(L+S) | L |
| Unbraced | 3879 ft-lb | 3'4" | 18821 ft-lb | 0.206 (21%) | D+0.75(L+S) | L |
| Shear | 1617 lb | 5' 1/2" | 13739 lb | 0.118 (12%) | D+0.75(L+S) | L |
| LL Defl inch | 0.008 (L/9314) | 3'4" | 0.156 (L/480) | 0.052 (5%) | 0.75(L+S) | L |
| TL Defl inch | 0.019 (L/3870) | 3'4" | 0.208 (L/360) | 0.093 (9%) | D+0.75(L+S) | L |
| | | | | | | |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- $2\,$ Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.

| o Lateral sie | 8 Lateral stenderness ratio based on single ply width. | | | | | | | | | |
|---------------|--|----------|------------|-----------|----------|---------|-----------|----------|-------------|----------|
| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
| 1 | Uniform | | | Near Face | 54 PLF | 162 PLF | 0 PLF | 0 PLF | 0 PLF | F2 |
| 2 | Uniform | | | Тор | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | WALL |
| 3 | Uniform | | | Тор | 281 PLF | 0 PLF | 281 PLF | 0 PLF | 0 PLF | B2-A |
| | Self Weight | | | | 12 PLF | | | | | |

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- - Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

| 1. | LVL be | ams | must not | be | cut o | or | d |
|----|--------|-----|----------|-----|-------|----|---|
| 2 | Refer | to | manufa | ctu | rer's | | r |

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used

This design is valid until 6/28/2026



Date: 4/29/2025 Input by:

Neal Baggett Job Name: LOT 23 MAGNOLIA HILLS

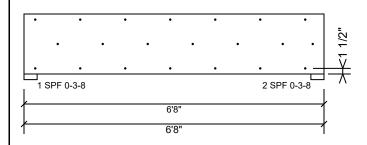
Project #:

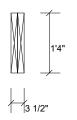
Kerto-S LVL FB₂

1.750" X 16.000"

2-Ply - PASSED

Level: Level





Page 6 of 12

Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| | · · · · · · · | , |
|--------------------------|---------------|---|
| Capacity | 44.0 % | |
| Load | 108.0 PLF | |
| Yield Limit per Foot | 245.6 PLF | |
| Yield Limit per Fastener | 81.9 lb. | |
| См | 1 | |
| Yield Mode | IV | |
| Edge Distance | 1 1/2" | |
| Min. End Distance | 3" | |
| Load Combination | D+L | |
| Duration Factor | 1.00 | |

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

- Handling & Installation
- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851

(800) 622-5850 www.metsawood.com/us

Manufacturer Info

This design is valid until 6/28/2026

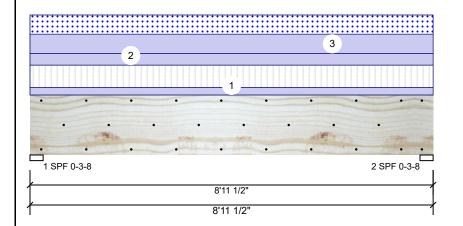


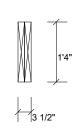
Date: 4/29/2025

Input by: Neal Baggett Job Name: LOT 23 MAGNOLIA HILLS

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL** FB1

Level: Level





Page 7 of 12

Member Information

| Type: | Girder |
|---------------------|---------------|
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 360 |
| Importance: | Normal - II |
| Temperature: | Temp <= 100°F |

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

| Rea | Reactions UNPATTERNED lb (Uplift) | | | | | | | | | | |
|-----|-----------------------------------|------|------|------|------|-------|--|--|--|--|--|
| Brg | Direction | Live | Dead | Snow | Wind | Const | | | | | |
| 1 | Vertical | 1021 | 1807 | 873 | 0 | 0 | | | | | |
| 2 | Vertical | 1021 | 1807 | 873 | 0 | 0 | | | | | |
| | | | | | | | | | | | |

Bearings

| Bearing | Length | Dir. | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------|------|--------------|-------|----------|-------------|
| 1 - SPF | 3.500" | Vert | 62% | 1807 / 1421 | 3228 | L | D+0.75(L+S) |
| 2 - SPF | 3.500" | Vert | 62% | 1807 / 1421 | 3228 | L | D+0.75(L+S) |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|------------|---------------|-------------|-------------|------|
| Moment | 5731 ft-lb | 4'5 3/4" | 34565 ft-lb | 0.166 (17%) | D+L | L |
| Unbraced | 6541 ft-lb | 4'5 3/4" | 13975 ft-lb | 0.468 (47%) | D+0.75(L+S) | L |
| Shear | 2224 lb | 1'7 1/2" | 11947 lb | 0.186 (19%) | D+L | L |
| LL Defl inch | 0.022 (L/4718) | 4'5 13/16" | 0.213 (L/480) | 0.102 (10%) | 0.75(L+S) | L |
| TL Defl inch | 0.049 (L/2077) | 4'5 13/16" | 0.284 (L/360) | 0.173 (17%) | D+0.75(L+S) | L |
| | | | | | | |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width

| 8 Lateral stenderness ratio based on single ply width. | | | | | | | | | | |
|--|-------------|----------|------------|-----------|----------|---------|-----------|----------|-------------|----------|
| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
| 1 | Uniform | | | Near Face | 76 PLF | 228 PLF | 0 PLF | 0 PLF | 0 PLF | F4 |
| 2 | Uniform | | | Тор | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | WALL |
| 3 | Uniform | | | Тор | 195 PLF | 0 PLF | 195 PLF | 0 PLF | 0 PLF | B4 |
| | Self Weight | | | | 12 PLF | | | | | |

Notes

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 2 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

| Version | 23.40.705 | Powered | hν | iStruct™ | Dataset: | 24051401 | 1529 |
|---------|-----------|---------|----|----------|----------|----------|-------|
| version | 23.40.703 | rowered | υy | Bullet | Dataset. | 24031401 | .1323 |



Date: 4/29/2025 Input by:

Neal Baggett Job Name: LOT 23 MAGNOLIA HILLS

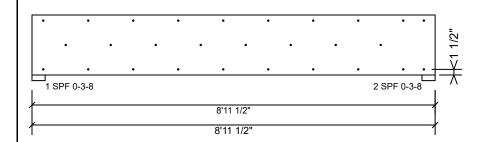
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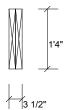
Kerto-S LVL FB₁

1.750" X 16.000"

2-Ply - PASSED

Level: Level





Page 8 of 12

Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| Capacity | 61.9 % | |
|--------------------------|-----------|--|
| Load | 152.0 PLF | |
| Yield Limit per Foot | 245.6 PLF | |
| Yield Limit per Fastener | 81.9 lb. | |
| См | 1 | |
| Yield Mode | IV | |
| Edge Distance | 1 1/2" | |
| Min. End Distance | 3" | |
| Load Combination | D+L | |
| Duration Factor | 1.00 | |

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us



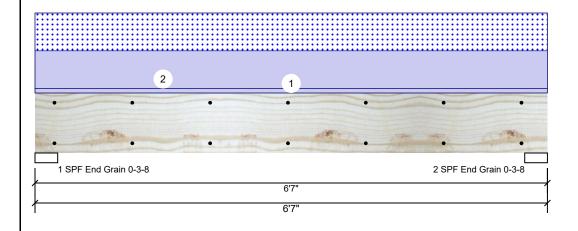
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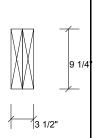
Neal Baggett Job Name: LOT 23 MAGNOLIA HILLS

Project #:

1.750" X 9.250" 2-Ply - PASSED **Kerto-S LVL** HDR1

Level: Level





Page 9 of 12

Member Information

| Туре: | Girder |
|---------------------|---------------|
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 360 |
| Importance: | Normal - II |
| Temperature: | Temp <= 100°F |

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)

| Brg | Direction | Live | Dead | Snow | Wind | Const |
|-----|-----------|------|------|------|------|-------|
| 1 | Vertical | 0 | 1449 | 1277 | 0 | 0 |
| 2 | Vertical | 0 | 1449 | 1277 | 0 | 0 |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|----------|---------------|-------------|-------|------|
| , | | | | - 1 / | | |
| Moment | 3884 ft-lb | 3'3 1/2" | 14423 ft-lb | 0.269 (27%) | D+S | L |
| Unbraced | 3884 ft-lb | 3'3 1/2" | 10451 ft-lb | 0.372 (37%) | D+S | L |
| Shear | 1852 lb | 1' 3/4" | 7943 lb | 0.233 (23%) | D+S | L |
| LL Defl inch | 0.033 (L/2221) | 3'3 1/2" | 0.153 (L/480) | 0.216 (22%) | S | L |
| TL Defl inch | 0.071 (L/1041) | 3'3 1/2" | 0.204 (L/360) | 0.346 (35%) | D+S | L |

Bearings

| Bearing Length | Dir. | Cap. | React D/L lb | Total | Ld. Case | Ld. Comb. |
|--------------------------------|------|------|--------------|-------|----------|-----------|
| 1 - SPF 3.500" End Grain | Vert | 26% | 1449 / 1277 | 2726 | L | D+S |
| 2 - SPF 3.500" End Grain | Vert | 26% | 1449 / 1277 | 2726 | L | D+S |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-------------|----------|------------|------|----------|--------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Тор | 45 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | WALL |
| 2 | Uniform | | | Тор | 388 PLF | 0 PLF | 388 PLF | 0 PLF | 0 PLF | |
| | Self Weight | | | | 7 PLF | | | | | |

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- 1. Dry service conditions, unless noted otherwise
- Handling & Installation
- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 2 Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

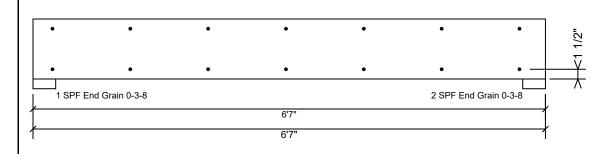
This design is valid until 6/28/2026

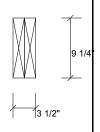
Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

| 2. | LVL | not | to | be | treated | with | fire | retardant | or | corrosive |
|----|-----|-----|----|----|---------|------|------|-----------|----|-----------|
| | | | | | | | | | | |

Version 23.40.705 Powered by iStruct™ Dataset: 24051401.1529

Client: Date: 4/29/2025 Page 10 of 12 Project: Input by: Neal Baggett isDesign Address: Job Name: LOT 23 MAGNOLIA HILLS Project #: **Kerto-S LVL** 1.750" X 9.250" 2-Ply - PASSED Level: Level HDR1





Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

| Capacity | 0.0 % |
|--------------------------|-----------|
| Load | 0.0 PLF |
| Yield Limit per Foot | 163.7 PLF |
| Yield Limit per Fastener | 81.9 lb. |
| См | 1 |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1 00 |

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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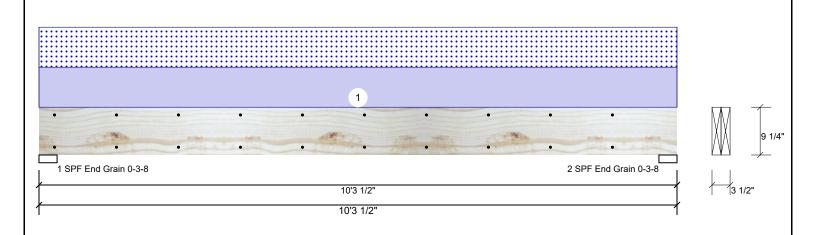


4/29/2025

Input by: Neal Baggett Job Name: LOT 23 MAGNOLIA HILLS Page 11 of 12

1.750" X 9.250" 2-Ply - PASSED Kerto-S LVL DB₂

Level: Level



| Member Info | rmation | | | Rea | ctions UNP/ | ATTERNE |) lb (Uplift |) | | |
|--------------------|---------------|----------------|--------------|-----|-------------|---------|--------------|------|------|-------|
| Туре: | Girder | Application: | Floor | Brg | Direction | Live | Dead | Snow | Wind | Const |
| Plies: | 2 | Design Method: | ASD | 1 | Vertical | 0 | 927 | 890 | 0 | 0 |
| Moisture Condition | on: Dry | Building Code: | IBC/IRC 2015 | 2 | Vertical | 0 | 927 | 890 | 0 | 0 |
| Deflection LL: | 480 | Load Sharing: | No | | | | | | | |
| Deflection TL: | 360 | Deck: | Not Checked | | | | | | | |
| Importance: | Normal - II | | | | | | | | | |
| Temperature: | Temp <= 100°F | | | | | | | | | |
| | | | | Rea | rinas | | | | | |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|----------|---------------|-------------|-------|------|
| Moment | 4269 ft-lb | 5'1 3/4" | 14423 ft-lb | 0.296 (30%) | D+S | L |
| Unbraced | 4269 ft-lb | 5'1 3/4" | 7519 ft-lb | 0.568 (57%) | D+S | L |
| Shear | 1448 lb | 9'2 3/4" | 7943 lb | 0.182 (18%) | D+S | L |
| LL Defl inch | 0.086 (L/1368) | 5'1 3/4" | 0.246 (L/480) | 0.351 (35%) | S | L |
| TL Defl inch | 0.176 (L/670) | 5'1 3/4" | 0.328 (L/360) | 0.537 (54%) | D+S | L |

| Bearing | Length | Dir. | Cap. Re | act D/L lb | Iotal | Ld. Case | Ld. Com |
|-------------------------|--------|------|---------|------------|-------|----------|---------|
| 1 - SPF End Grain | 3.500" | Vert | 18% | 927 / 890 | 1817 | L | D+S |
| 2 - SPF End Grain | 3.500" | Vert | 18% | 927 / 890 | 1817 | L | D+S |

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.

Self Weight

- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-----------|----------|------------|------|----------|--------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Тор | 173 PLF | 0 PLF | 173 PLF | 0 PLF | 0 PLF | H2 |

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- I. LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 Damagee Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

7 PLF

Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Client: Date: 4/29/2025 Page 12 of 12 Project: Input by: Neal Baggett isDesign Address: Job Name: LOT 23 MAGNOLIA HILLS Project #: 1.750" X 9.250" 2-Ply - PASSED Level: Level **Kerto-S LVL** DB₂ 1 SPF End Grain 0-3-8 2 SPF End Grain 0-3-8 10'3 1/2" 10'3 1/2" Multi-Ply Analysis Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6". Capacity 0.0 PLF 163.7 PLF Yield Limit per Foot Yield Limit per Fastener 81.9 lb. См Yield Mode IV Edge Distance 1 1/2" Min. End Distance 3" Load Combination **Duration Factor** 1.00 For flat roofs provide proper drainage to prevent ponding Manufacturer Info Notes NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 Handling & Installation Handling & Installation

1. UVI beams must not be cut or drilled

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3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 6/28/2026

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Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive