

RE: J0423-1754
 43 Gale Spears

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J0423-1754
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
 Wind Code: ASCE 7-10 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 22 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|-----------|-----|-----------|------------|-----------|
| 1 | I56315365 | A1 | 1/26/2023 | 21 | I56315385 | J07 | 1/26/2023 |
| 2 | I56315366 | A2 | 1/26/2023 | 22 | I56315386 | M1 | 1/26/2023 |
| 3 | I56315367 | A3 | 1/26/2023 | | | | |
| 4 | I56315368 | A4 | 1/26/2023 | | | | |
| 5 | I56315369 | A5 | 1/26/2023 | | | | |
| 6 | I56315370 | A6 | 1/26/2023 | | | | |
| 7 | I56315371 | A7 | 1/26/2023 | | | | |
| 8 | I56315372 | A8 | 1/26/2023 | | | | |
| 9 | I56315373 | A9 | 1/26/2023 | | | | |
| 10 | I56315374 | A10 | 1/26/2023 | | | | |
| 11 | I56315375 | A11 | 1/26/2023 | | | | |
| 12 | I56315376 | CJ-1 | 1/26/2023 | | | | |
| 13 | I56315377 | CJ-2 | 1/26/2023 | | | | |
| 14 | I56315378 | CJ-3 | 1/26/2023 | | | | |
| 15 | I56315379 | J01 | 1/26/2023 | | | | |
| 16 | I56315380 | J02 | 1/26/2023 | | | | |
| 17 | I56315381 | J03 | 1/26/2023 | | | | |
| 18 | I56315382 | J04 | 1/26/2023 | | | | |
| 19 | I56315383 | J05 | 1/26/2023 | | | | |
| 20 | I56315384 | J06 | 1/26/2023 | | | | |

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: Gilbert, Eric
 My license renewal date for the state of North Carolina is December 31, 2023.
 North Carolina COA: C-0844

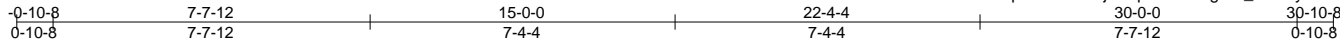
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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



| | | | | | | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315365 |
| J0423-1754 | A1 | Roof Special | 4 | 1 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:27 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-pe4k3Ai3FicjiYbq0iQww?2gHlu_T6EayPE4s9zrsPM



Scale = 1:55.6

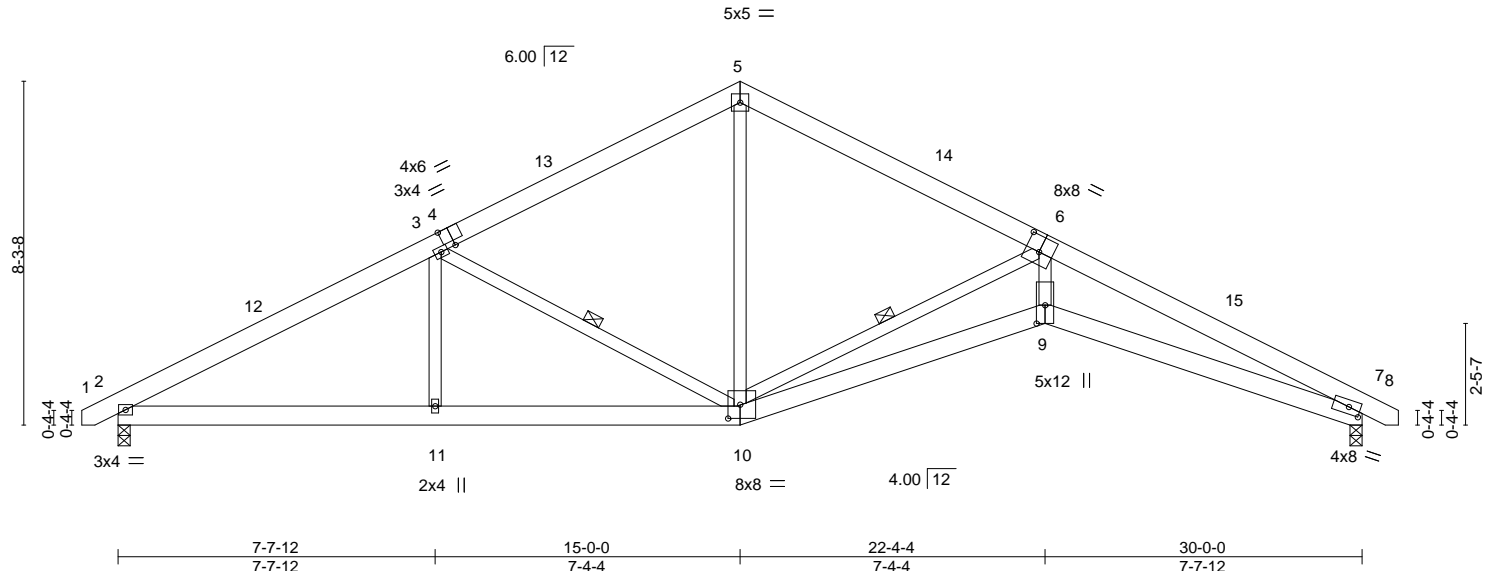


Plate Offsets (X, Y)-- [4:0-3-0,Edge], [6:0-4-0,0-4-8], [7:0-3-6,0-2-0], [9:0-5-5,0-2-8], [10:0-3-8,0-4-0]

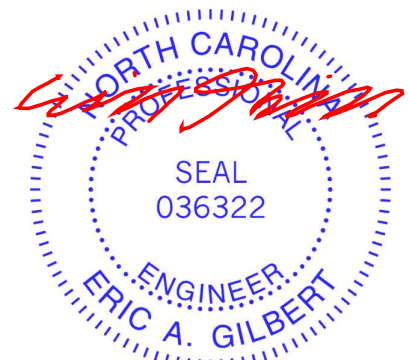
| LOADING (psf) | SPACING- | CS.I. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.89 | Vert(LL) -0.27 | 9 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.87 | Vert(CT) -0.54 | 9-10 | >665 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.99 | Horz(CT) 0.32 | 7 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.18 | 9 | >999 | 240 | Weight: 198 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 3-1-1 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 9-4-14 oc bracing. |
| WEBS 2x4 SP No.2 | WEBS 1 Row at midpt 3-10, 6-10 |

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=103(LC 11)
Max Uplift 2=83(LC 12), 7=83(LC 13)
Max Grav 2=1240(LC 1), 7=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2036/433, 3-5=-1408/405, 5-6=-1371/402, 6-7=-4593/848
BOT CHORD 2-11=-279/1700, 10-11=-279/1700, 9-10=-690/4077, 7-9=-700/4144
WEBS 3-11=0/327, 3-10=-648/219, 5-10=-123/716, 6-10=-3095/641, 6-9=-338/2706

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 15-0-0, Exterior(2) 15-0-0 to 19-4-13, Interior(1) 19-4-13 to 30-8-10 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 2 and 83 lb uplift at joint 7.



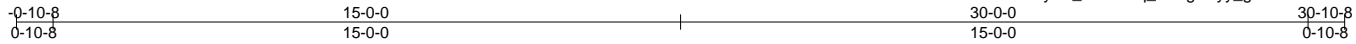
January 26, 2023

| | | | | | | |
|------------|-------|------------|-----|-----|----------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315366 |
| J0423-1754 | A2 | Common | 7 | 1 | | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:30 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-EDmshCnyYd_Iz?KPhq_dYeg8Dyy_gVQceNTkTUzrsPJ



Scale = 1:55.1

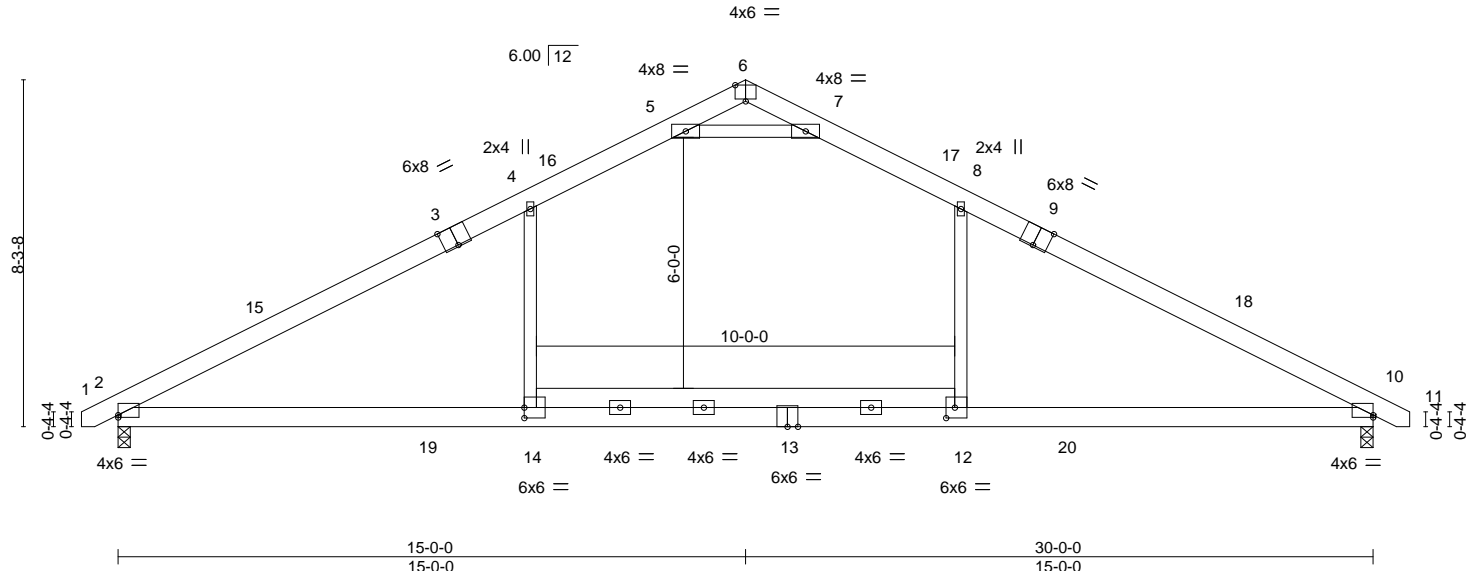


Plate Offsets (X,Y)-- [2:0-0-0,0-0-11], [3:0-4-0,Edge], [6:0-3-0,Edge], [9:0-4-0,Edge], [10:0-0-0,0-0-11], [12:0-2-8,0-3-0], [14:0-0-0,0-3-0]

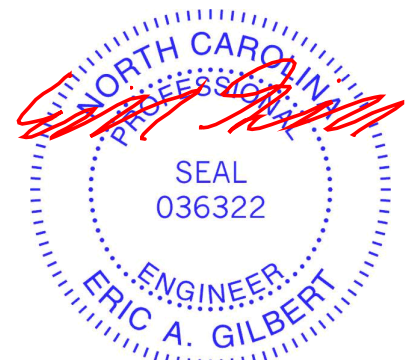
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.97 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.66 | Vert(LL) -0.47 10-12 >753 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.84 | Vert(CT) -0.67 10-12 >533 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.06 10 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.26 2-14 >999 240 | Weight: 197 lb | FT = 20% |

| LUMBER- | BRACING- |
|---|--|
| TOP CHORD 2x6 SP 2400F 2.0E *Except* 1-3,9-11: 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 12-14: 2x6 SP No.1 | |

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=-102(LC 10)
 Max Uplift 2=-83(LC 12), 10=-83(LC 13)
 Max Grav 2=1541(LC 2), 10=1541(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2470/382, 4-5=-1923/451, 5-6=-356/2009, 6-7=-356/2009, 7-8=-1923/451, 8-10=-2471/382
 BOT CHORD 2-14=-182/2021, 12-14=-185/2023, 10-12=-182/2021
 WEBS 4-14=0/850, 8-12=0/851, 5-7=-4267/875

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 15-0-0, Exterior(2) 15-0-0 to 19-4-13, Interior(1) 19-4-13 to 30-8-10 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 40.0psf 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 83 lb uplift at joint 2 and 83 lb uplift at joint 10.



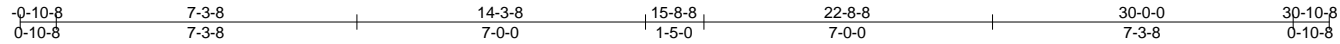
January 26, 2023

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315367 |
| J0423-1754 | A3 | HIP | 1 | 1 | Job Reference (optional) | |

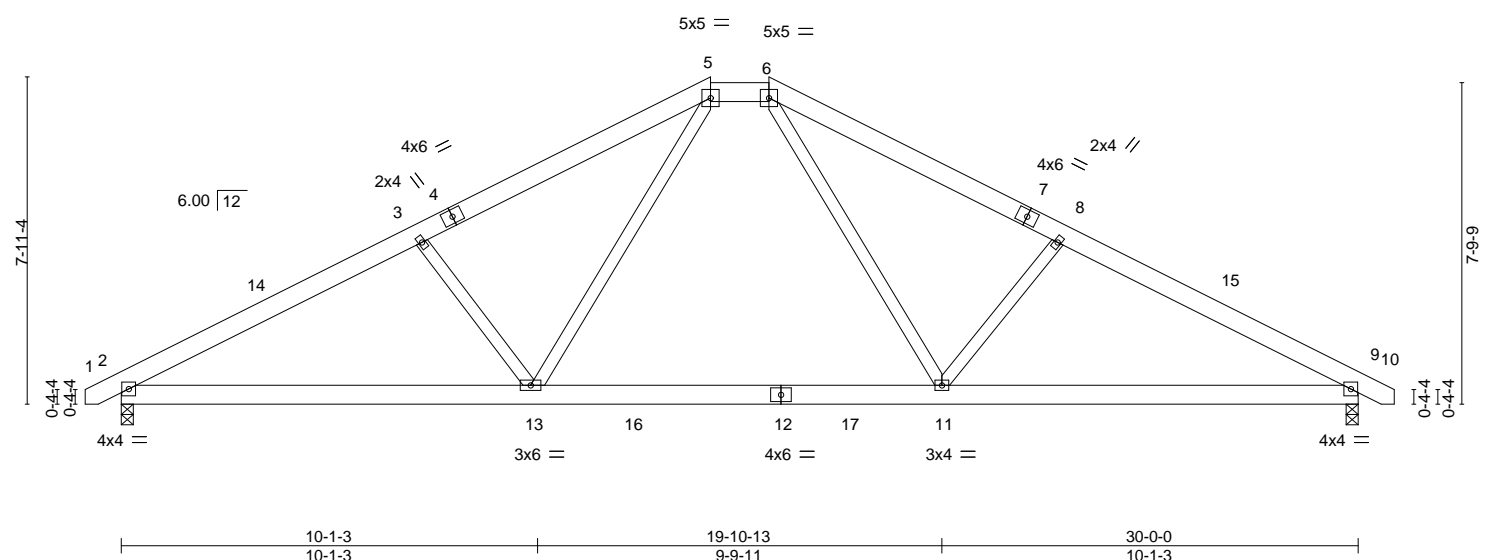
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:31 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-iPJEuYoaJx69B9ubFYVs4rCVPMLYP77mt1CH?wzrsPI



Scale = 1:55.9



| | | | | | |
|----------------------|----------------------|-------------|-------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.24 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.45 | Vert(LL) -0.18 11-13 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.17 | Vert(CT) -0.24 11-13 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.04 9 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.04 13 >999 240 | Weight: 191 lb | FT = 20% |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins, except |
| BOT CHORD 2x6 SP No.1 | 2-0-0 oc purlins (6-0-0 max.): 5-6. |
| WEBS 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=-97(LC 10)
 Max Uplift 2=-80(LC 12), 9=-80(LC 13)
 Max Grav 2=1240(LC 1), 9=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2027/504, 3-5=-1820/499, 5-6=-1223/450, 6-8=-1811/494, 8-9=-2025/505
 BOT CHORD 2-13=-373/1734, 11-13=-145/1223, 9-11=-361/1708
 WEBS 3-13=-390/285, 5-13=-121/684, 6-11=-115/682, 8-11=-393/285

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-3-8, Exterior(2) 14-3-8 to 21-11-3, Interior(1) 21-11-3 to 30-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 80 lb uplift at joint 9.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

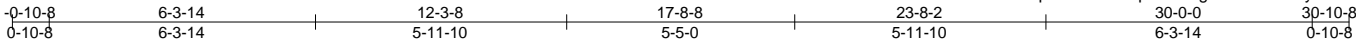
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315368 |
| J0423-1754 | A4 | HIP | 1 | 1 | Job Reference (optional) | |

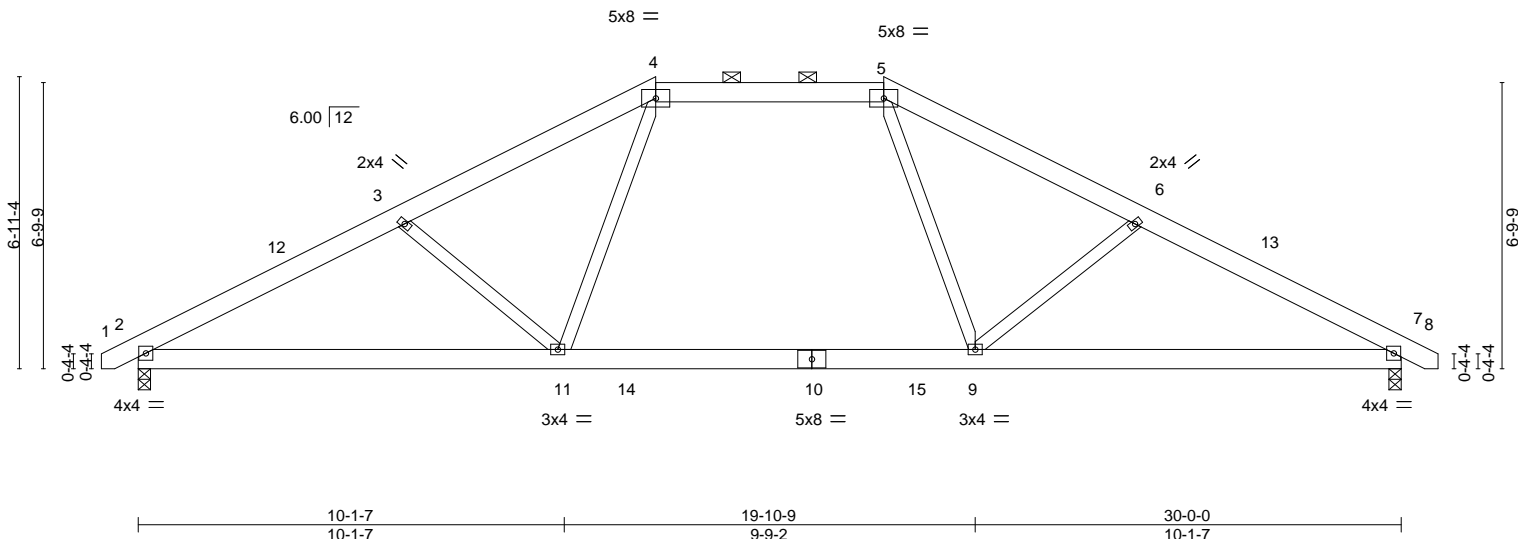
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:32 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-Actd6tpC4EE0oJTnpF05d3lgrfmhu8ZOv5hyrYMzrsPH



Scale = 1:54.7



| | | | | | |
|----------------------|----------------------|-------------|------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.21 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.51 | Vert(LL) -0.20 9-11 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.17 | Vert(CT) -0.27 9-11 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.05 7 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.08 2-11 >999 240 | Weight: 186 lb | FT = 20% |

| | |
|-----------------------|--|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 5-3-7 oc purlins, except |
| BOT CHORD 2x6 SP No.1 | 2-0-0 oc purlins (6-0-0 max.): 4-5. |
| WEBS 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=-84(LC 10)
 Max Uplift 2=-69(LC 12), 7=-69(LC 13)
 Max Grav 2=1240(LC 1), 7=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2111/565, 3-4=-1892/503, 4-5=-1450/486, 5-6=-1886/502, 6-7=-2109/566
 BOT CHORD 2-11=-434/1783, 9-11=-217/1450, 7-9=-423/1782
 WEBS 3-11=-356/270, 4-11=-38/569, 5-9=-35/569, 6-9=-359/271

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-3-8, Exterior(2) 12-3-8 to 23-10-8, Interior(1) 23-10-8 to 30-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 2 and 69 lb uplift at joint 7.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

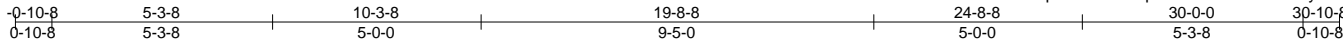


| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315369 |
| J0423-1754 | A5 | HIP | 1 | 1 | Job Reference (optional) | |

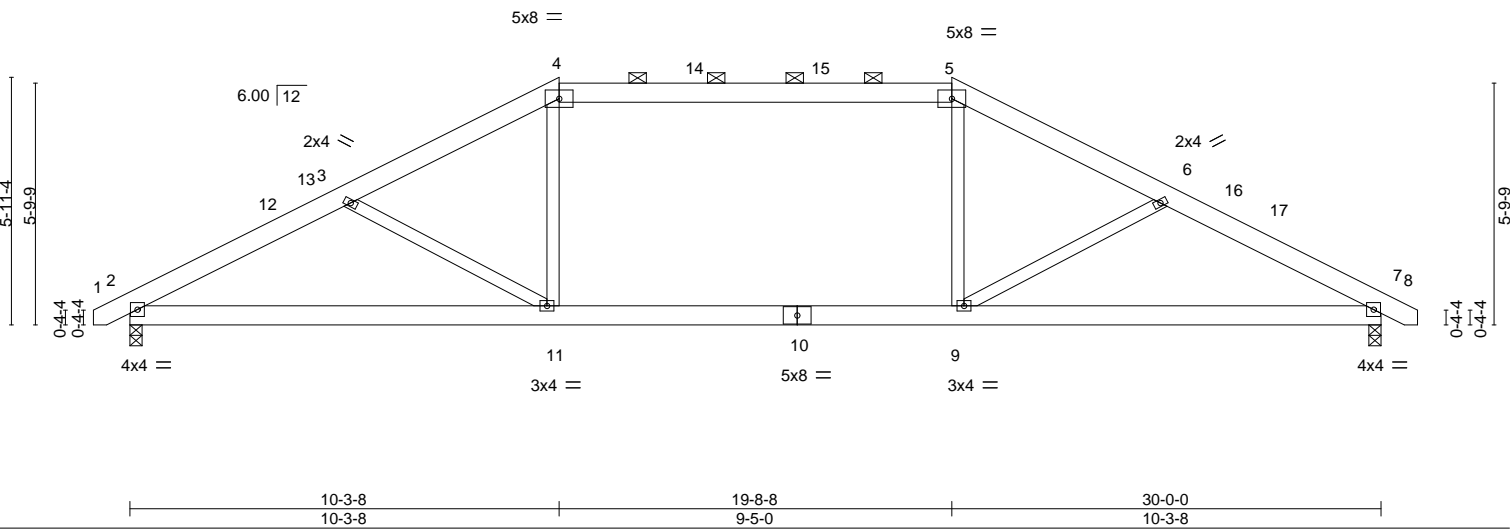
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:32 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-Actd6tpC4EE0oJTnpF05d3lcEmfn8Zxv5hyrYMzrsPH



Scale = 1:55.2



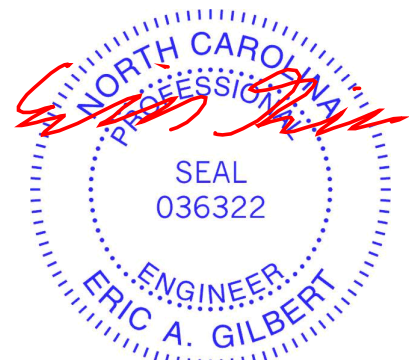
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.49 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.58 | Vert(LL) -0.22 9-11 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.13 | Vert(CT) -0.28 9-11 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.05 7 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.10 2-11 >999 240 | Weight: 182 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 5-2-4 oc purlins, except |
| BOT CHORD 2x6 SP No.1 | 2-0-0 oc purlins (5-1-1 max.): 4-5. |
| WEBS 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=71(LC 11)
 Max Uplift 2=57(LC 12), 7=57(LC 13)
 Max Grav 2=1301(LC 2), 7=1301(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2217/591, 3-4=-2055/509, 4-5=-1792/502, 5-6=-2055/509, 6-7=-2217/591
 BOT CHORD 2-11=-461/1868, 9-11=-269/1792, 7-9=-448/1868
 WEBS 4-11=0/516, 5-9=0/516

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-3-8, Exterior(2) 10-3-8 to 16-6-3, Interior(1) 16-6-3 to 19-8-8, Exterior(2) 19-8-8 to 25-11-3, Interior(1) 25-11-3 to 30-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 2 and 57 lb uplift at joint 7.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

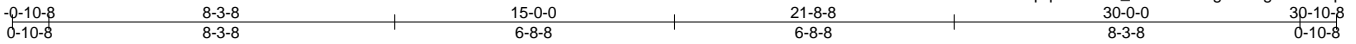


| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315370 |
| J0423-1754 | A6 | HIP | 1 | 1 | Job Reference (optional) | |

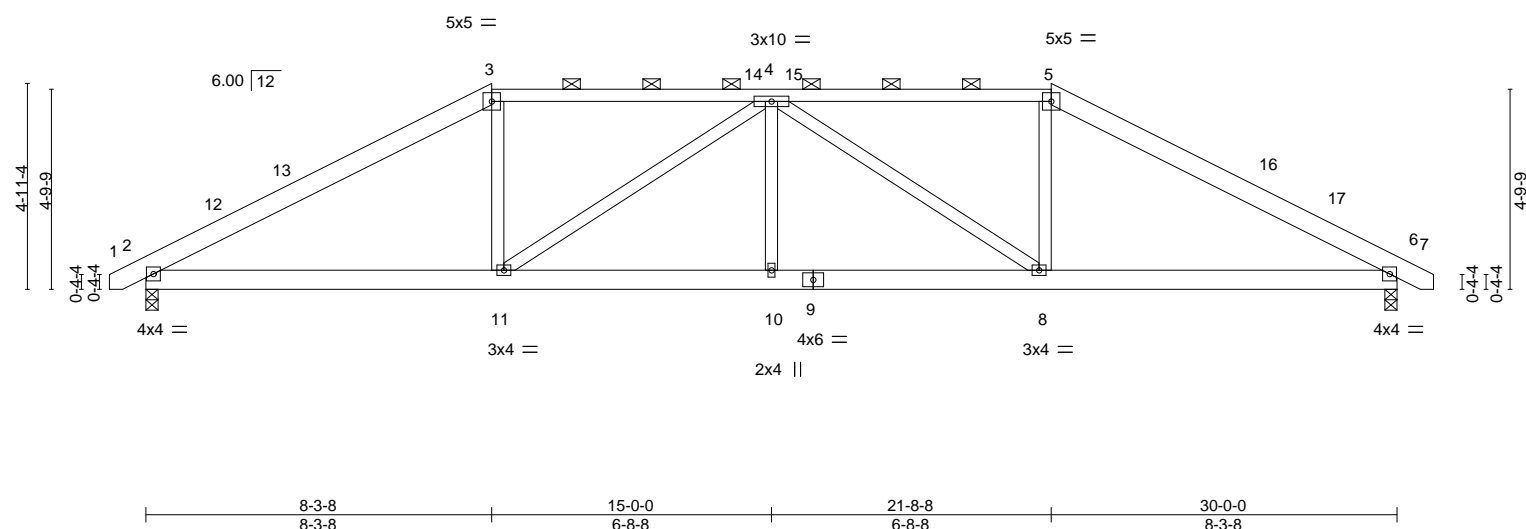
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:33 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-eoR?JDpqrYMTQT2_MzXKAGlog93dtvg2KLhO4pzrsPG



Scale = 1:55.2



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|----------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.44 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.35 | Vert(LL) -0.07 10 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.61 | Vert(CT) -0.14 10 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(LL) 0.05 6 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(CT) 0.05 10 >999 240 | Weight: 179 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|--|
| TOP CHORD 2x6 SP No.1 *Except* 3-5: 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins, except 2-0-0 oc purlins (4-5-8 max.): 3-5. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 | |

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-58(LC 10)
 Max Uplift 2=-42(LC 12), 6=-42(LC 13)
 Max Grav 2=1240(LC 1), 6=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1984/503, 3-4=-1655/529, 4-5=-1655/529, 5-6=-1984/503
 BOT CHORD 2-11=-333/1640, 10-11=-424/2047, 8-10=-424/2047, 6-8=-314/1640
 WEBS 3-11=-7/527, 4-11=-575/147, 4-8=-575/147, 5-8=-7/527

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-3-8, Exterior(2) 8-3-8 to 14-6-3, Interior(1) 14-6-3 to 21-8-8, Exterior(2) 21-8-8 to 27-11-3, Interior(1) 27-11-3 to 30-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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 42 lb uplift at joint 2 and 42 lb uplift at joint 6.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 26, 2023

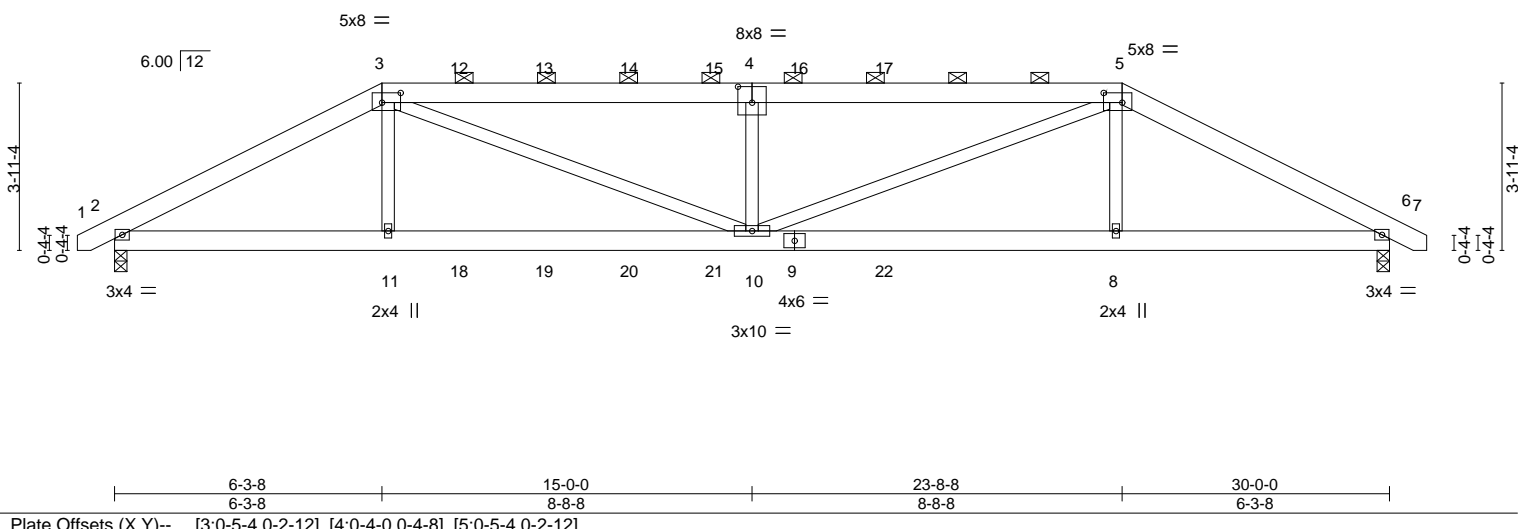
| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315371 |
| J0423-1754 | A7 | Hip Girder | 1 | 2 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:35 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-aBZlKvr4N9cbfnCMUOZoFhN8mzIRLu7LoeAV8hzrsPE



Scale = 1:54.2



| | | |
|-----------------------|-----------------|---|
| Plate Offsets (X,Y)-- | | [3:0-5-4,0-2-12], [4:0-4-0,0-4-8], [5:0-5-4,0-2-12] |
| LOADING (psf) | SPACING- | 2-0-0 |
| TCLL 20.0 | Plate Grip DOL | 1.15 |
| TCDL 10.0 | Lumber DOL | 1.15 |
| BCLL 0.0 * | Rep Stress Incr | NO |
| BCDL 10.0 | Code | IRC2015/TPI2014 |
| | CSI. | |
| | TC | 0.41 |
| | BC | 0.32 |
| | WB | 0.29 |
| | Matrix-S | |
| | DEFL. | |
| | in (loc) | l/defl |
| | Vert(LL) | -0.09 10 >999 360 |
| | Vert(CT) | -0.19 10-11 >999 240 |
| | Horz(CT) | 0.04 6 n/a n/a |
| | Wind(LL) | 0.09 10 >999 240 |
| | PLATES | GRIP |
| | MT20 | 244/190 |
| | Weight: 377 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

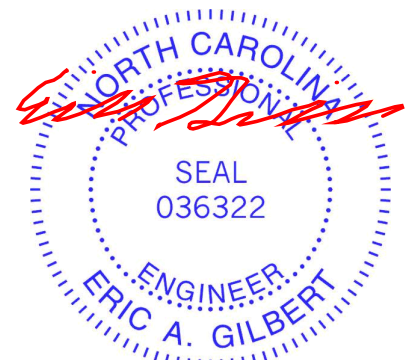
REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-46(LC 25)
Max Uplift 2=-361(LC 8), 6=-226(LC 4)
Max Grav 2=2198(LC 1), 6=1768(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4076/740, 3-4=-4844/906, 4-5=-4844/906, 5-6=-3172/475
BOT CHORD 2-11=-639/3487, 10-11=-637/3515, 8-10=-355/2700, 6-8=-358/2692
WEBS 3-11=0/830, 3-10=-305/1506, 4-10=-1076/516, 5-10=-568/2393, 5-8=0/352

- NOTES-**
- 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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 361 lb uplift at joint 2 and 226 lb uplift at joint 6.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 138 lb down and 106 lb up at 6-3-8, 119 lb down and 106 lb up at 8-0-12, 119 lb down and 106 lb up at 10-0-12, 119 lb down and 106 lb up at 12-0-12, 119 lb down and 106 lb up at 14-0-12, and 119 lb down and 106 lb up at 16-0-12, and 119 lb down and 106 lb up at 18-0-12 on top chord, and 408 lb down and 107 lb up at 6-3-8, 82 lb down at 8-0-12, 82 lb down at 10-0-12, 82 lb down at 12-0-12, 82 lb down at 14-0-12, and 82 lb down at 16-0-12, and 82 lb down at 18-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315371 |
| J0423-1754 | A7 | Hip Girder | 1 | 2 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:35 2023 Page 2
 ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-aBZlkr4N9cbfnCMUOZoFhN8mzIRLu7LoeAV8hzrsPE

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 3=-119(B) 9=-41(B) 11=-408(B) 12=-119(B) 13=-119(B) 14=-119(B) 15=-119(B) 16=-119(B) 17=-119(B) 18=-41(B) 19=-41(B) 20=-41(B) 21=-41(B) 22=-41(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



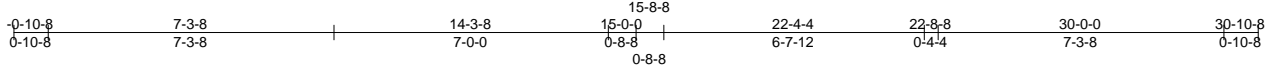
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315372 |
| J0423-1754 | A8 | HIP | 1 | 1 | Job Reference (optional) | |

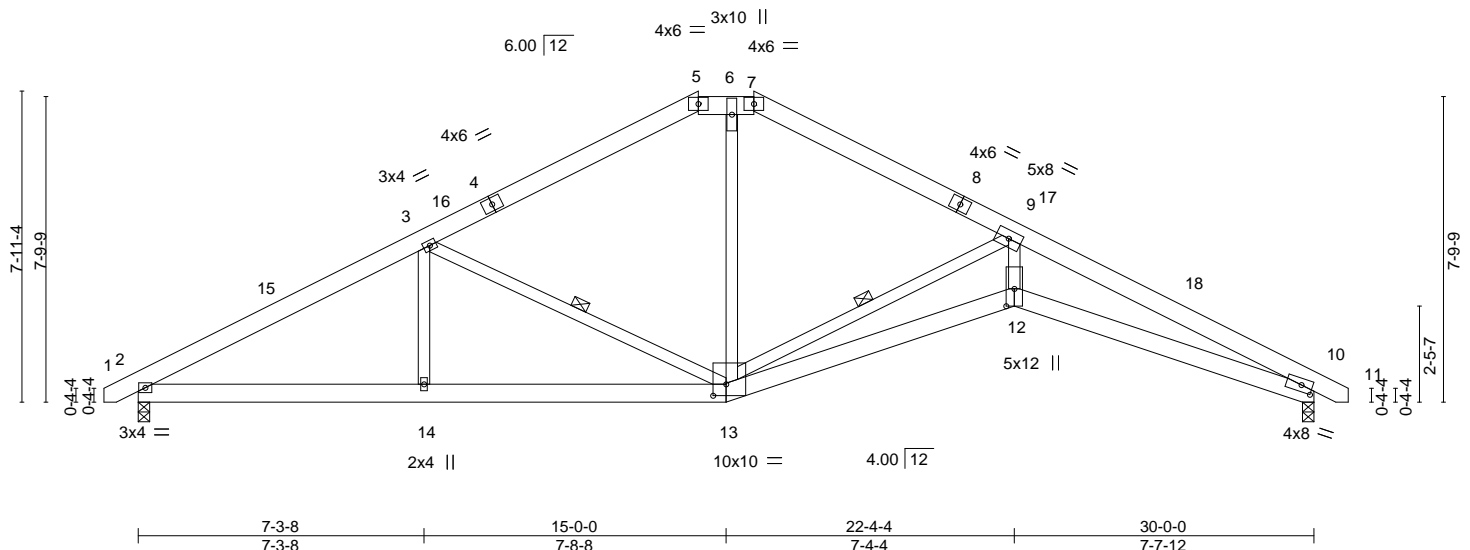
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:36 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFuztiQ5-3N77yFsj8TKShwnZ2541nvwC_Ny44AuV0lw2h8zrsPD



Scale = 1:58.8



| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [10:0-3-6,0-2-0], [12:0-5-5,0-2-8], [13:0-4-0,0-3-8] |
|-----------------------|--|

| LOADING (psf) | SPACING- | CS.I. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.89 | Vert(LL) -0.27 | 12 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.87 | Vert(CT) -0.54 | 12-13 | >658 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.96 | Horz(CT) 0.32 | 10 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.19 | 12 | >999 | 240 | Weight: 197 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 8-8-7 oc bracing. |
| WEBS 2x4 SP No.2 | WEBS 1 Row at midpt 3-13, 9-13 |

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=97(LC 11)
 Max Uplift 2=80(LC 12), 10=80(LC 13)
 Max Grav 2=1240(LC 1), 10=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2042/474, 3-5=-1433/439, 5-6=-1184/434, 6-7=-1160/429, 7-9=-1393/438, 9-10=-4569/979
 BOT CHORD 2-14=-347/1705, 13-14=-347/1705, 12-13=-820/4125, 10-12=-820/4119
 WEBS 3-14=0/329, 3-13=-614/239, 6-13=-111/673, 9-12=-415/2712, 9-13=-3113/745

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-3-8, Exterior(2) 14-3-8 to 21-11-3, Interior(1) 21-11-3 to 30-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 2 and 80 lb uplift at joint 10.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315373 |
| J0423-1754 | A9 | HIP | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:37 2023 Page 1
 ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-XZhW9btLuntlv4MlbpGK6SM4nIVphqeFycDazrsPC



Scale = 1:56.0

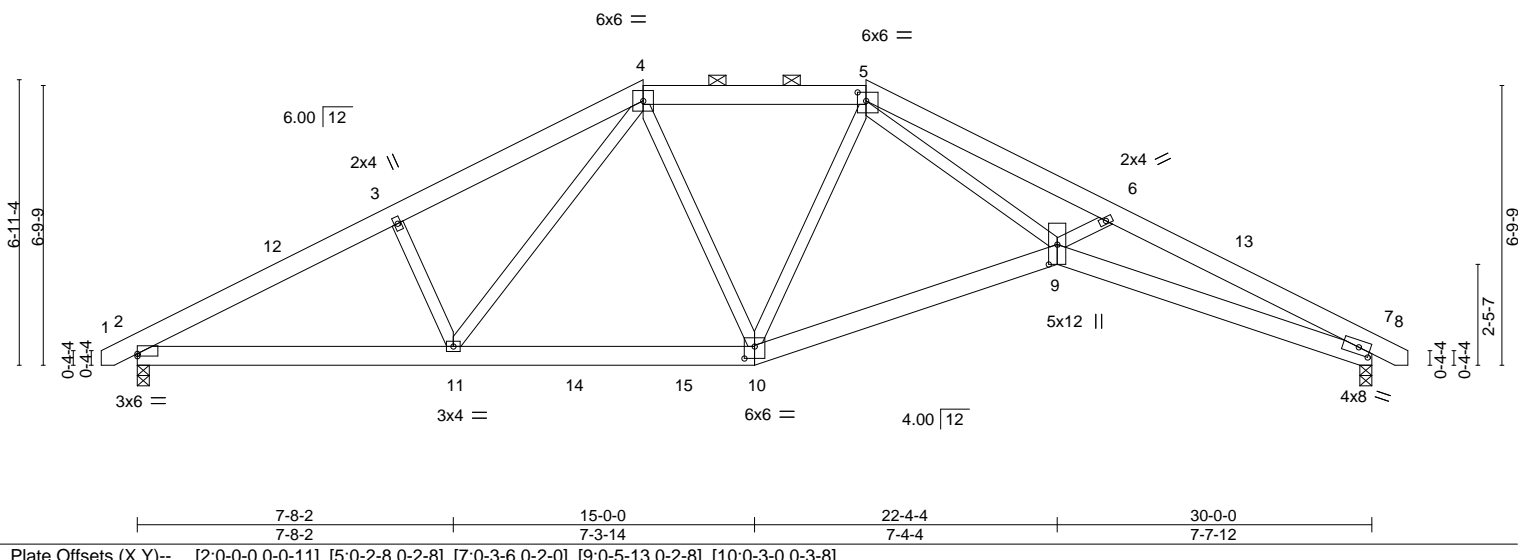


Plate Offsets (X,Y)-- [2:0-0-0,0-0-11], [5:0-2-8,0-2-8], [7:0-3-6,0-2-0], [9:0-5-13,0-2-8], [10:0-3-0,0-3-8]

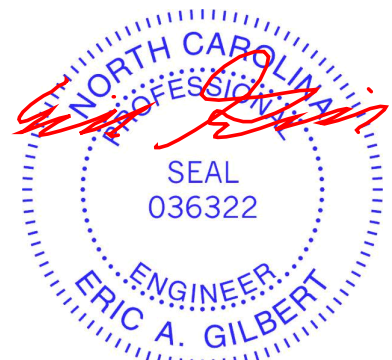
| LOADING (psf) | SPACING- | CS.I. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.93 | Vert(LL) -0.22 | 9 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.86 | Horz(CT) -0.44 | 9-10 | >808 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.73 | Horz(LL) 0.25 | 7 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.16 | 9 | >999 | 240 | Weight: 201 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 3-3-15 oc purlins, except |
| BOT CHORD 2x6 SP No.1 | 2-0-0 oc purlins (6-0-0 max.): 4-5. |
| WEBS 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-0-1 oc bracing: 7-9. |

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=-84(LC 10)
 Max Uplift 2=-69(LC 12), 7=-69(LC 13)
 Max Grav 2=1240(LC 1), 7=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2034/542, 3-4=-1894/593, 4-5=-1383/478, 5-6=-4324/1075, 6-7=-4504/1138
 BOT CHORD 2-11=-413/1721, 10-11=-239/1340, 9-10=-297/1669, 7-9=-974/4050
 WEBS 3-11=-264/234, 4-11=-141/527, 5-10=-522/186, 5-9=-627/2969

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-3-8, Exterior(2) 12-3-8 to 23-9-8, Interior(1) 23-9-8 to 30-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 2 and 69 lb uplift at joint 7.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

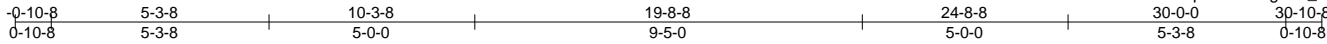


January 26, 2023

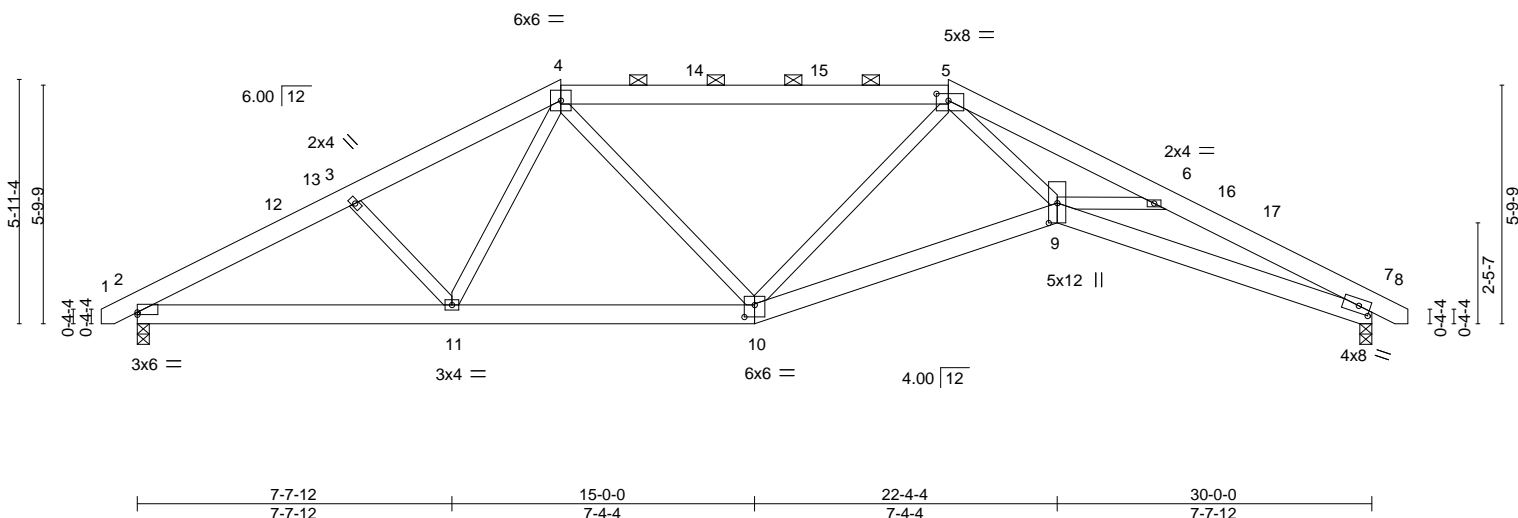
| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315374 |
| J0423-1754 | A10 | HIP | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:28 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-lre6GWmh00kaKiA0aQx9TDapm8FNCdGJB3_dPbzrsPL



Scale = 1:56.0



| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [2:0-0-0,0-0-11], [5:0-3-8,0-2-0], [7:0-3-6,0-2-0], [9:0-5-13,0-2-8], [10:0-3-0,0-3-8] |
|-----------------------|--|

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.97 | Vert(LL) -0.18 | 9 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.80 | Horz(CT) -0.37 | 9-10 | >963 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.72 | Horz(CT) 0.22 | 7 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.14 | 9 | >999 | 240 | Weight: 197 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 3-5-9 oc purlins, except 2-0-0 oc purlins (5-2-13 max.): 4-5. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-10-7 oc bracing: 7-9. |
| WEBS 2x4 SP No.2 | |

| REACTIONS. | (size) |
|------------|----------------------------|
| Max Horz | 2=71(LC 11) |
| Max Uplift | 2=-57(LC 12), 7=-57(LC 13) |
| Max Grav | 2=1240(LC 1), 7=1240(LC 1) |

| FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
|---|
| TOP CHORD 2-3=-2029/574, 3-4=-1867/559, 4-5=-1566/491, 5-6=-4374/1049, 6-7=-4292/1176 |
| BOT CHORD 2-11=-447/1711, 10-11=-309/1502, 9-10=-453/2225, 7-9=-1011/3831 |
| WEBS 4-11=-40/359, 5-10=-825/264, 5-9=-510/2699, 6-9=-7/480 |

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-3-8, Exterior(2) 10-3-8 to 16-6-3, Interior(1) 16-6-3 to 19-8-8, Exterior(2) 19-8-8 to 25-11-3, Interior(1) 25-11-3 to 30-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 2 and 57 lb uplift at joint 7.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

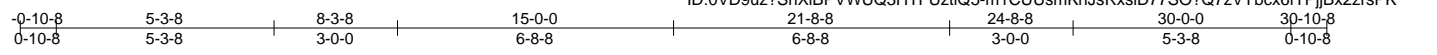


| | |
|--|--|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p> | <p>ENGINEERING BY A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|--|--|

| | | | | | | |
|------------|-------|------------|-----|-----|----------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315375 |
| J0423-1754 | A11 | HIP | 1 | 1 | | |

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:29 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-m1CUUsmKnJsRxsID77SO?Q7zVYbcx6FTpjBx2zrsPK



Scale = 1:56.0

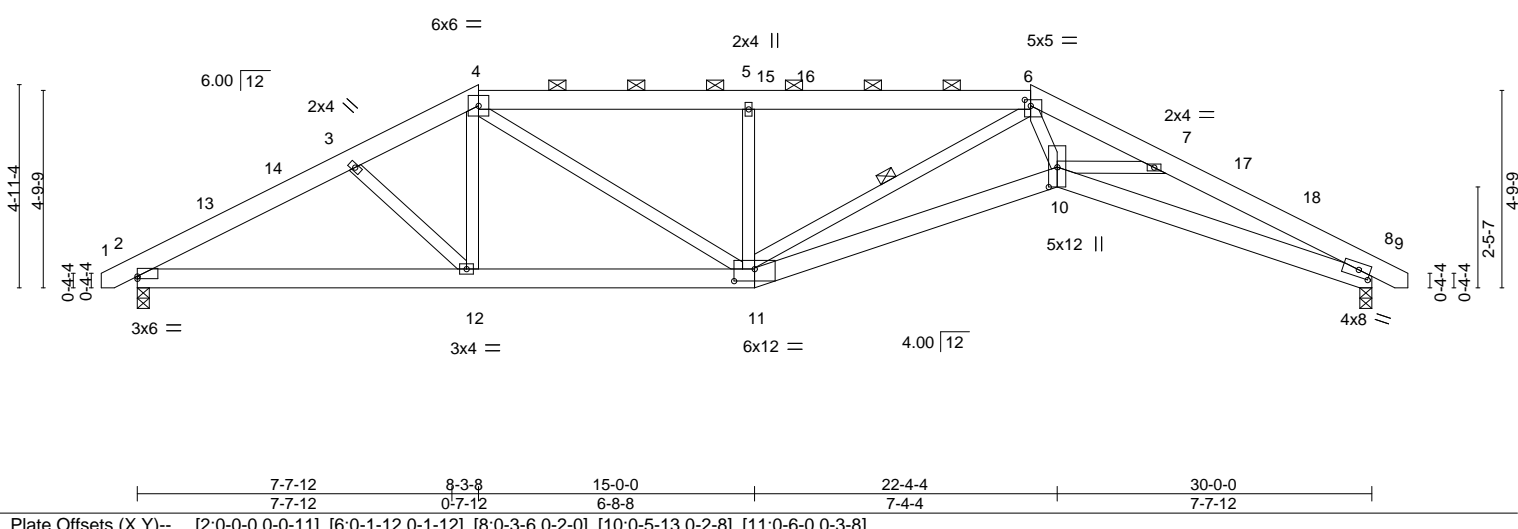


Plate Offsets (X,Y)-- [2:0-0-0,0-0-11], [6:0-1-12,0-1-12], [8:0-3-6,0-2-0], [10:0-5-13,0-2-8], [11:0-6-0,0-3-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.97 | Vert(LL) -0.19 | 10 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.80 | Horz(CT) -0.39 | 10-11 | >905 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.61 | Wind(LL) 0.14 | 8 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | 10 | >999 | 240 | Weight: 199 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 3-6-4 oc purlins, except |
| BOT CHORD 2x6 SP No.1 | 2-0-0 oc purlins (5-2-7 max.): 4-6. |
| WEBS 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 7-11-13 oc bracing. |
| | WEBS 1 Row at midpt 6-11 |

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=58(LC 11)
Max Uplift 2=-42(LC 12), 8=-42(LC 13)
Max Grav 2=1240(LC 1), 8=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2018/578, 3-4=-1858/540, 4-5=-2122/644, 5-6=-2105/636, 6-7=-4471/1051,
7-8=-4282/1152
BOT CHORD 2-12=-445/1701, 11-12=-318/1630, 10-11=-672/3414, 8-10=-982/3821
WEBS 4-12=-22/318, 6-11=-1342/241, 6-10=-461/2496, 7-10=-27/563, 5-11=-512/257,
4-11=-191/664

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-3-8, Exterior(2) 8-3-8 to 14-6-3, Interior(1) 14-6-3 to 21-8-8, Exterior(2) 21-8-8 to 27-11-3, Interior(1) 27-11-3 to 30-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2 and 42 lb uplift at joint 8.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

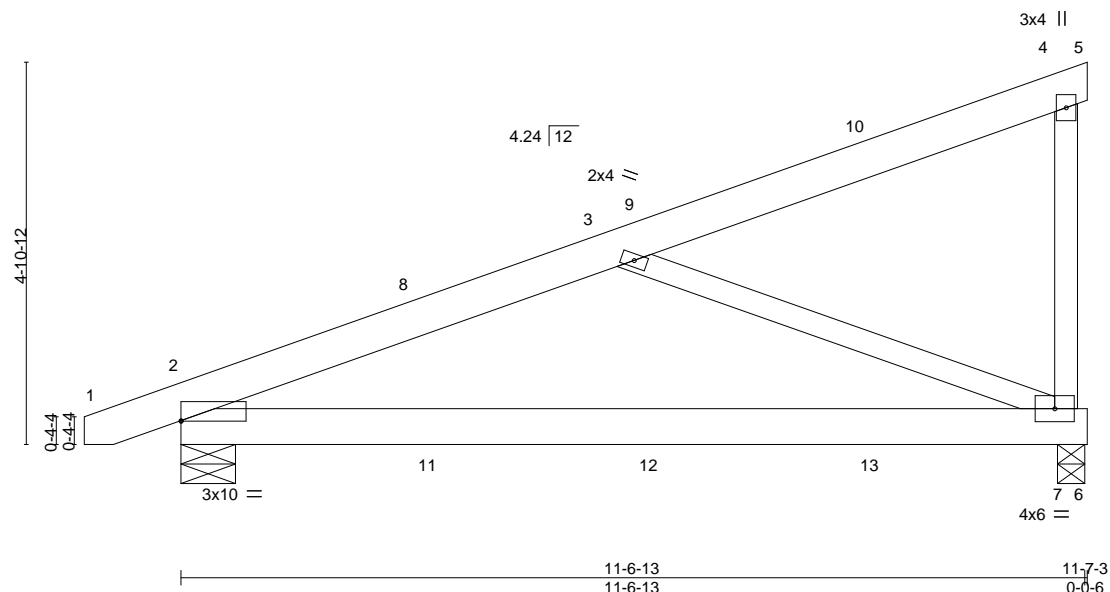


| | | | | | | |
|------------|-------|---------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315376 |
| J0423-1754 | CJ-1 | Roof Special Girder | 2 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:38 2023 Page 1
 ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-?mFuNxtzf4?9WExx9W7VtK?d_Ah7YC6oUcP9l0zrsPB



Scale = 1:29.5



| | |
|-----------------------|-----------------|
| Plate Offsets (X,Y)-- | [2:0-0-0,0-0-1] |
|-----------------------|-----------------|

| LOADING (psf) | SPACING- | CSL | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.54 | Vert(LL) | -0.18 | 2-7 | >713 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.65 | Vert(CT) | -0.37 | 2-7 | >356 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.47 | Horz(CT) | 0.01 | 7 | n/a | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-S | Wind(LL) | 0.00 | 2-7 | >999 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 74 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 | |

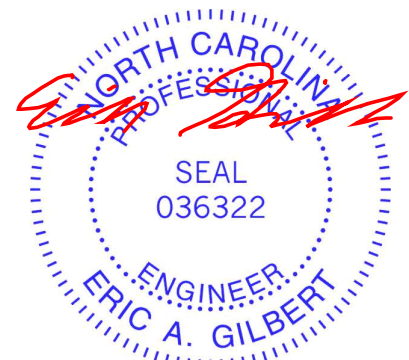
REACTIONS. (size) 7=0-4-3, 2=0-8-6
 Max Horz 2=146(LC 4)
 Max Uplift 7=-171(LC 8), 2=-118(LC 4)
 Max Grav 7=679(LC 1), 2=623(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-822/272
 BOT CHORD 2-7=-334/736
 WEBS 3-7=-743/367

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 171 lb uplift at joint 7 and 118 lb uplift at joint 2.
 - 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 33 lb up at 3-2-7, 19 lb down and 33 lb up at 3-2-7, 49 lb down and 76 lb up at 6-0-6, 49 lb down and 76 lb up at 6-0-6, and 91 lb down and 110 lb up at 8-10-5, and 91 lb down and 110 lb up at 8-10-5 on top chord, and 3 lb down at 3-2-7, 3 lb down at 3-2-7, 23 lb down at 6-0-6, 23 lb down at 6-0-6, and 63 lb down at 8-10-5, and 63 lb down at 8-10-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 4-5=-20, 2-6=-20
 Concentrated Loads (lb)
 Vert: 9=-59(F=-29, B=-29) 10=-183(F=-91, B=-91) 12=-23(F=-12, B=-12) 13=-63(F=-32, B=-32)



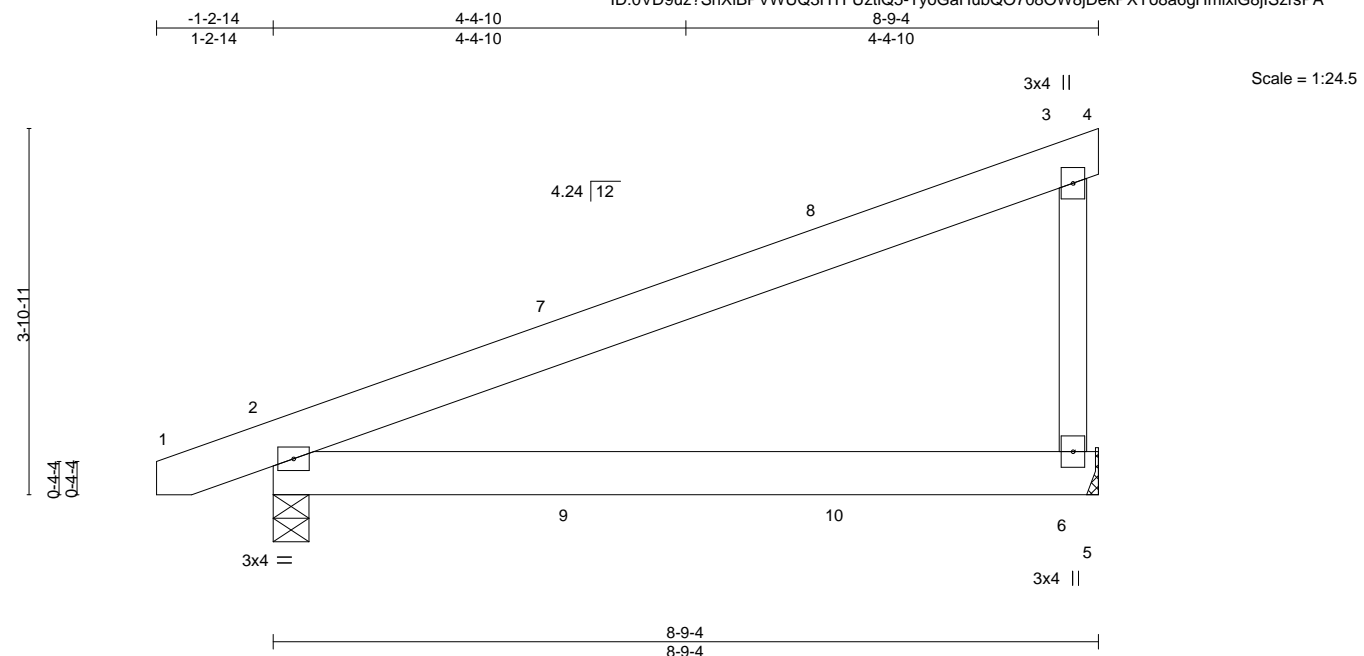
January 26, 2023

| | |
|--|--|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p> | <p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p> |
|--|--|

| | | | | | | |
|------------|-------|---------------------|-----|-----|----------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315377 |
| J0423-1754 | CJ-2 | DIAGONAL HIP GIRDER | 1 | 1 | | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:39 2023 Page 1
 ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-TyoGaHubQO708OW8jDekPXyo8a6gHmxiG8jISzrsPA



| | | | | | | | | |
|----------------------|----------------------|-------------|----------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.57 | Vert(LL) -0.08 | 2-6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.37 | Vert(CT) -0.15 | 2-6 | >658 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Horz(CT) 0.00 | n/a | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-P | Wind(LL) 0.00 | 2 | **** | 240 | Weight: 50 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 | |

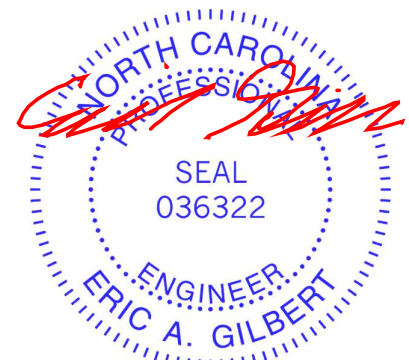
REACTIONS. (size) 6=Mechanical, 2=0-4-9
 Max Horz 2=113(LC 4)
 Max Uplift 6=-95(LC 8), 2=-78(LC 4)
 Max Grav 6=396(LC 1), 2=437(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-6=-291/159

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 6 and 78 lb uplift at joint 2.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 33 lb up at 3-2-7, 19 lb down and 33 lb up at 3-2-7, and 49 lb down and 76 lb up at 6-0-6, and 49 lb down and 76 lb up at 6-0-6 on top chord, and 3 lb down at 3-2-7, 3 lb down at 3-2-7, and 23 lb down at 6-0-6, and 23 lb down at 6-0-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-20, 2-5=-20
 Concentrated Loads (lb)
 Vert: 8=-59(F=-29, B=-29) 10=-23(F=-12, B=-12)



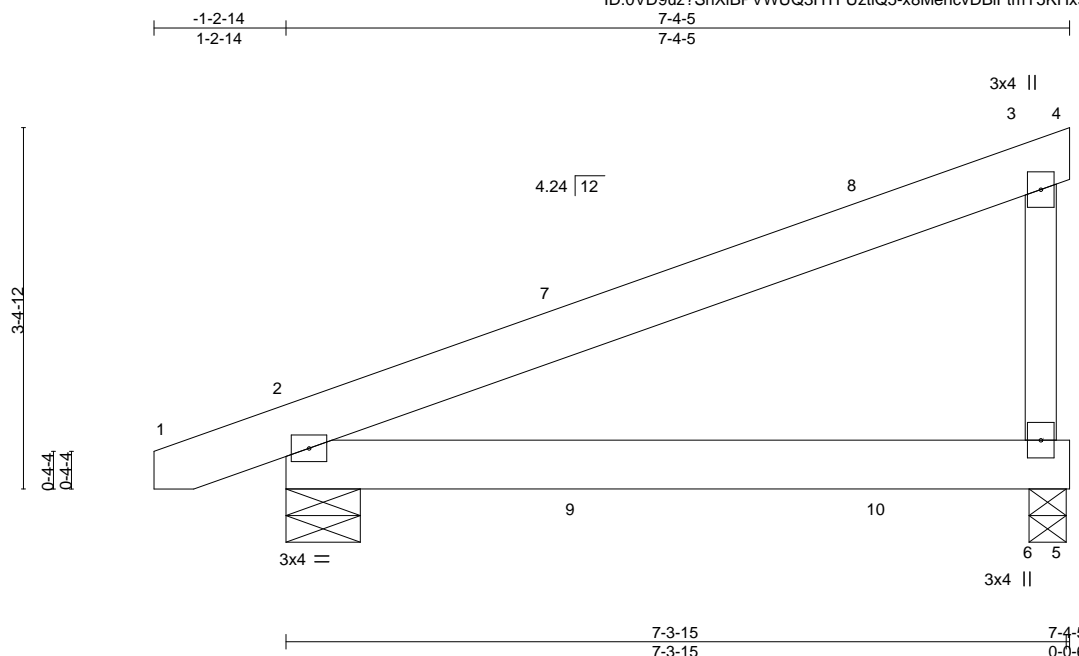
January 26, 2023

| | | | | | | |
|------------|-------|---------------------|-----|-----|----------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315378 |
| J0423-1754 | CJ-3 | ROOF SPECIAL GIRDER | 1 | 1 | | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:40 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-x8MencvDBiFtmY5KHx9zy140c_UA0Dx4xwuGqvzrsP9



Scale = 1:21.6

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.34 | Vert(LL) -0.03 | 2-6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.22 | Vert(CT) -0.06 | 2-6 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.00 | Horz(CT) 0.00 | n/a | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | Wind(LL) 0.00 | 2 | **** | 240 | Weight: 42 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 | |

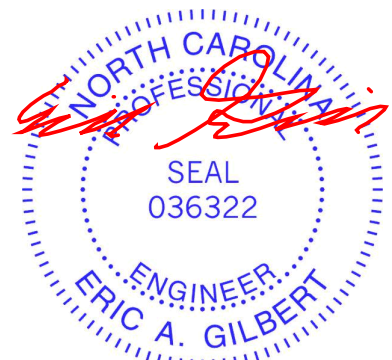
REACTIONS. (size) 6=0-4-3, 2=0-8-6
 Max Horz 2=95(LC 4)
 Max Uplift 6=-84(LC 8), 2=-76(LC 4)
 Max Grav 6=307(LC 1), 2=375(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 84 lb uplift at joint 6 and 76 lb uplift at joint 2.
 - 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 19 lb down and 30 lb up at 2-9-8, 19 lb down and 30 lb up at 2-9-8, and 45 lb down and 70 lb up at 5-7-7, and 45 lb down and 70 lb up at 5-7-7 on top chord, and 2 lb down at 2-9-8, 2 lb down at 2-9-8, and 20 lb down at 5-7-7, and 20 lb down at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 2-6=-20
 Concentrated Loads (lb)
 Vert: 8=-40(F=-20, B=-20) 10=-17(F=-9, B=-9)



January 26, 2023

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315379 |
| J0423-1754 | J01 | JACK-OPEN | 7 | 1 | Job Reference (optional) | |

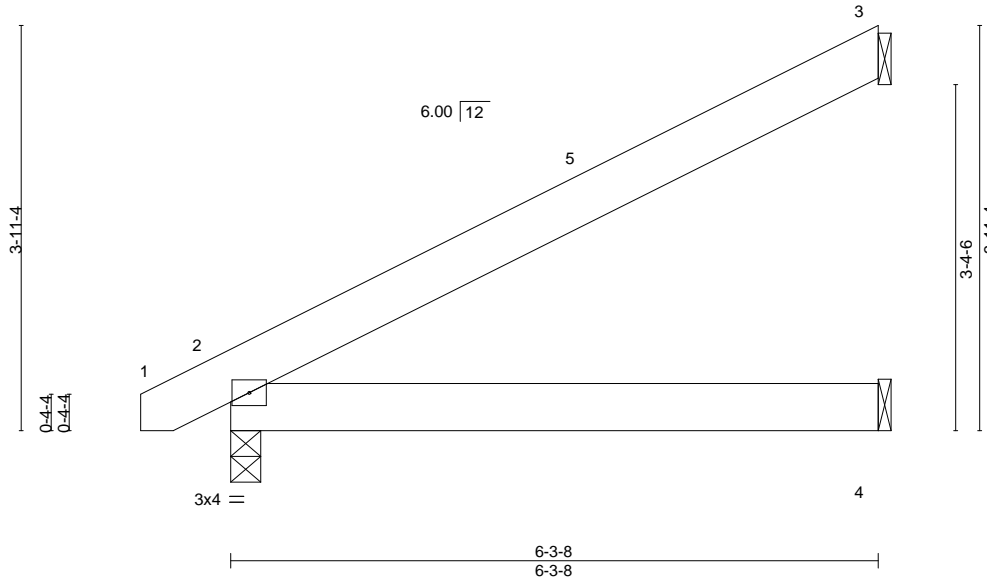
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:41 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUziQ5-PLw0?ywry?NkNifWqegCUyD6OrelgBEAadpMLzrsP8



Scale = 1:22.4



| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.22 | Vert(LL) -0.02 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.15 | Vert(CT) -0.04 | 2-4 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Horz(CT) -0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Wind(LL) 0.00 | 2 | **** | 240 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 34 lb | FT = 20% |

LUMBER-

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

BRACING-

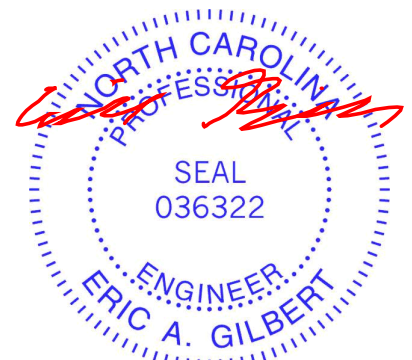
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=113(LC 12)
Max Uplift 3=93(LC 12), 2=8(LC 12)
Max Grav 3=179(LC 1), 2=299(LC 1), 4=122(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 6-2-12 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 3 and 8 lb uplift at joint 2.



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



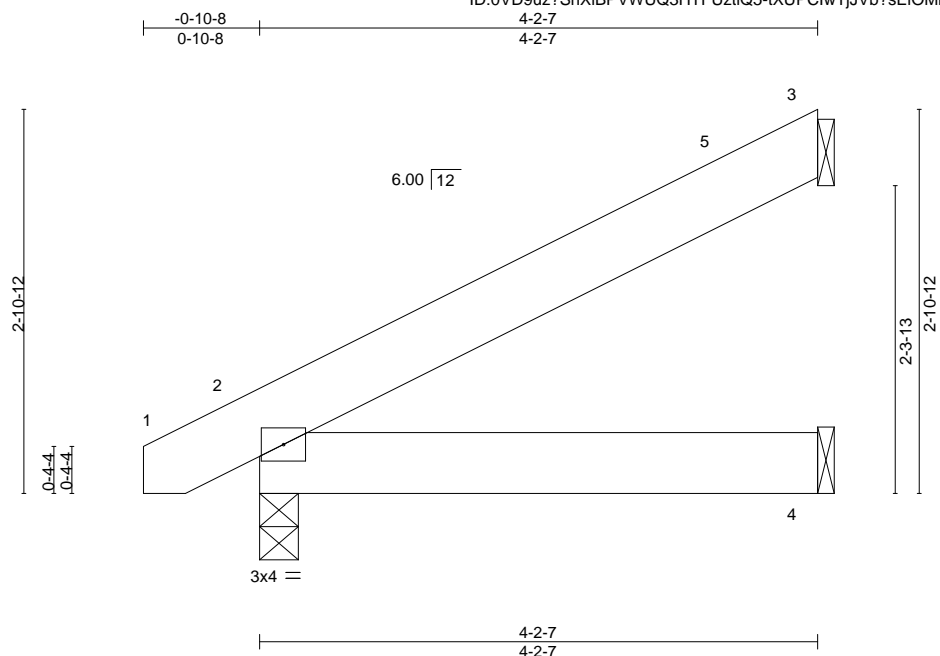
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315380 |
| J0423-1754 | J02 | JACK-OPEN | 6 | 1 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:42 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-tXUPCIwTjJVb?sEIOMBR1AAQyoCEU7RNPENunzrsP7



Scale = 1:17.4

| | | | | | | | | |
|----------------------|----------------------|-------------|----------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.09 | Vert(LL) -0.00 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.06 | Vert(CT) -0.01 | 2-4 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Horz(CT) -0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Wind(LL) 0.00 | 2 | **** | 240 | Weight: 23 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=79(LC 12)
 Max Uplift 3=63(LC 12), 2=7(LC 12)
 Max Grav 3=114(LC 1), 2=217(LC 1), 4=80(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 4-1-11 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) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 3 and 7 lb uplift at joint 2.



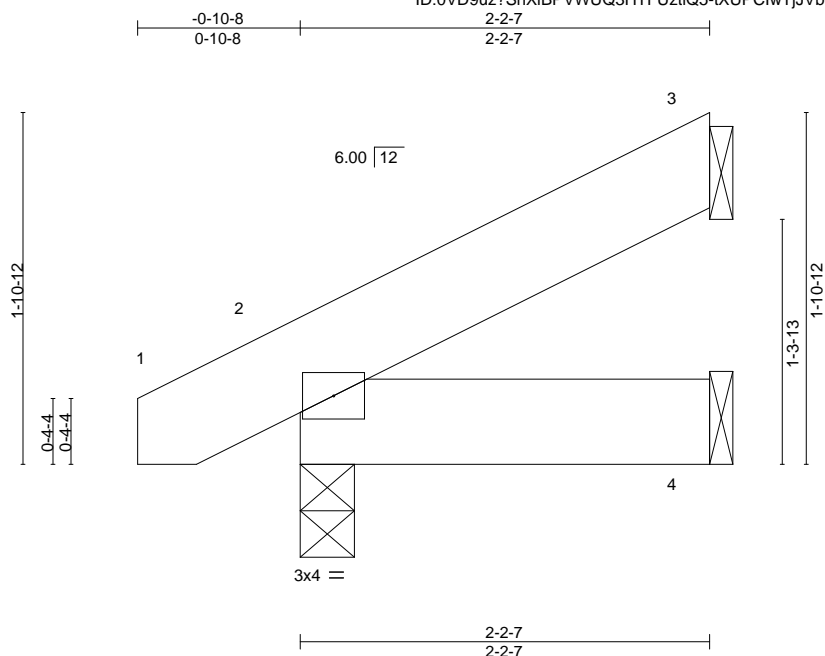
January 26, 2023

| | | | | | | |
|------------|-------|------------|-----|-----|----------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315381 |
| J0423-1754 | J03 | JACK-OPEN | 6 | 1 | | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:42 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-tXUPClwTjJvB?sEIOMBR1AAR2oCxU7RNPENunzrsP7



Scale = 1:12.4

| | | | | | | | | |
|----------------------|----------------------|-------------|----------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.02 | Vert(LL) -0.00 | 2 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.01 | Vert(CT) -0.00 | 2 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Horz(CT) -0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Wind(LL) 0.00 | 2 | **** | 240 | Weight: 14 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 2-2-7 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=46(LC 12)
 Max Uplift 3=33(LC 12), 2=8(LC 12)
 Max Grav 3=49(LC 1), 2=143(LC 1), 4=40(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 3 and 8 lb uplift at joint 2.



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

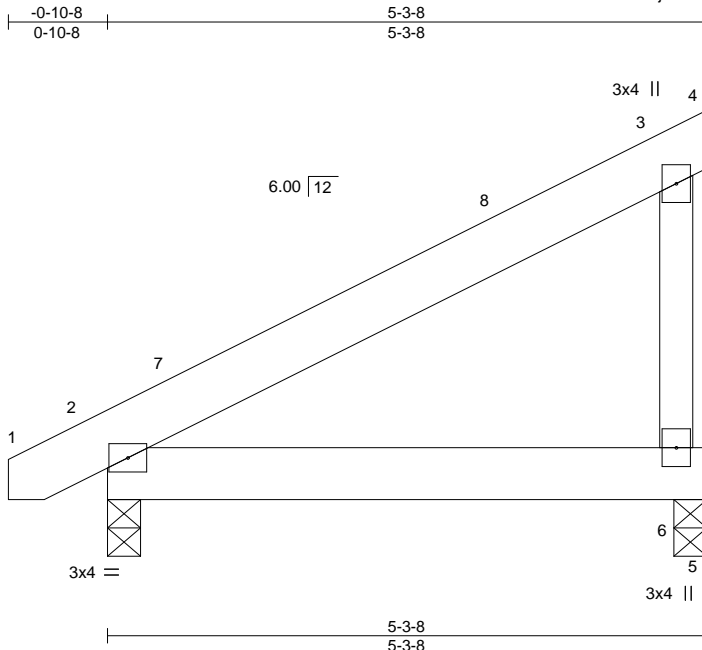
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315382 |
| J0423-1754 | J04 | MONOPITCH | 3 | 1 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:43 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-Lj2nQex6UddSd?pvj3jgZNia_BX_DahXdu6wREzrsP6



Scale = 1:20.3

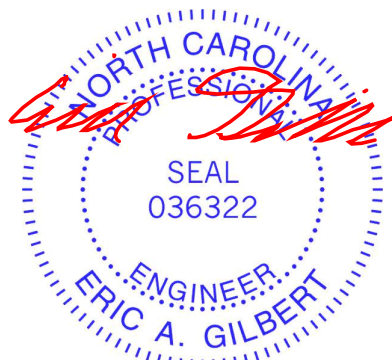
| | | | | | | | | |
|----------------------|----------------------|-------------|----------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.13 | Vert(LL) -0.01 | 2-6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.09 | Vert(CT) -0.02 | 2-6 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Horz(CT) 0.00 | | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Wind(LL) 0.00 | 2 | **** | 240 | Weight: 32 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

| | |
|-----------------------|---|
| LUMBER- | BRACING- |
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 | |

REACTIONS. (size) 6=0-3-8, 2=0-3-8
 Max Horz 2=97(LC 12)
 Max Uplift 6=-49(LC 12), 2=-5(LC 12)
 Max Grav 6=202(LC 1), 2=251(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 5-3-8 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 49 lb uplift at joint 6 and 5 lb uplift at joint 2.



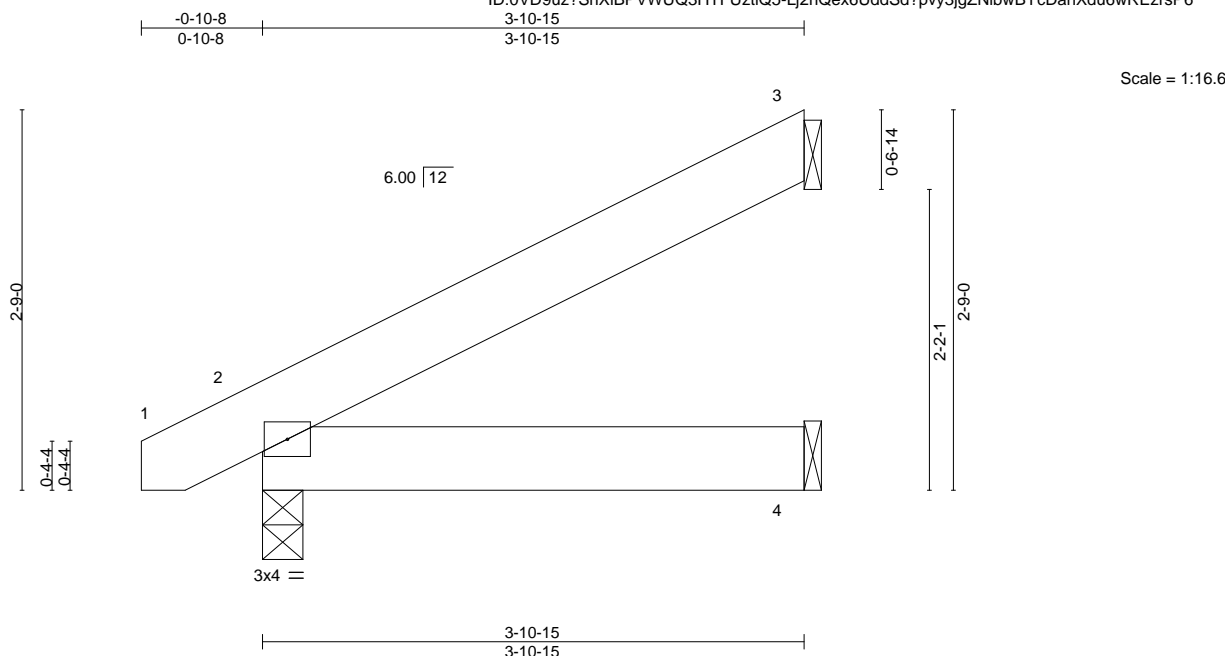
January 26, 2023

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315383 |
| J0423-1754 | J05 | JACK-OPEN | 2 | 1 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:43 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-Lj2nQex6UddSd?pvY3jgZNibwBYcDahXdu6wREzrsP6



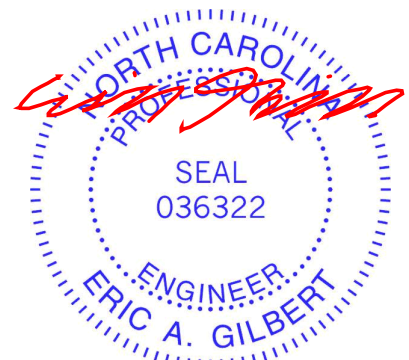
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.07 | Vert(LL) -0.00 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.05 | Vert(CT) -0.01 | 2-4 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) -0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | Wind(LL) 0.00 | 2 | **** | 240 | Weight: 22 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=74(LC 12)
 Max Uplift 3=59(LC 12), 2=7(LC 12)
 Max Grav 3=105(LC 1), 2=206(LC 1), 4=74(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 3 and 7 lb uplift at joint 2.



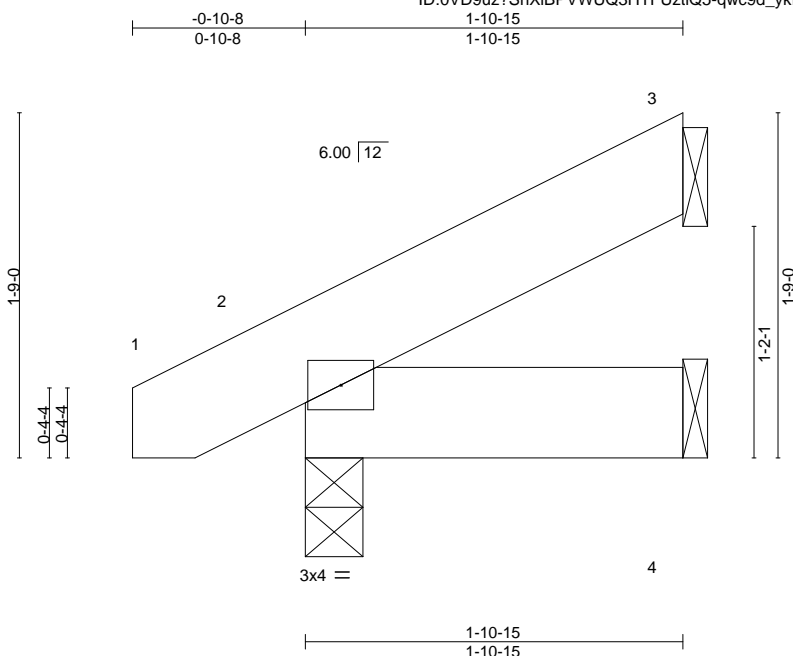
January 26, 2023

| | | | | | |
|-------------------|--------------|-------------------------|----------|----------|-----------------------------|
| Job J0423-1754 | Truss J06 | Truss Type JACK-OPEN | Qty 2 | Ply 1 | 43 Gale Spears I56315384 |
|-------------------|--------------|-------------------------|----------|----------|-----------------------------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:44 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-qwc9d_ykFwIJE9O5WnEv6bFnbuRy1xgsYsUzgzrsP5



Scale = 1:11.7

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.02 | Vert(LL) -0.00 | 2 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.01 | Vert(CT) -0.00 | 2 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) -0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | Wind(LL) 0.00 | 2 | **** | 240 | Weight: 12 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=42(LC 12)
 Max Uplift 3=31(LC 12), 2=7(LC 12)
 Max Grav 3=47(LC 1), 2=128(LC 1), 4=37(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 3 and 7 lb uplift at joint 2.



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315385 |
| J0423-1754 | J07 | JACK-OPEN | 4 | 1 | Job Reference (optional) | |

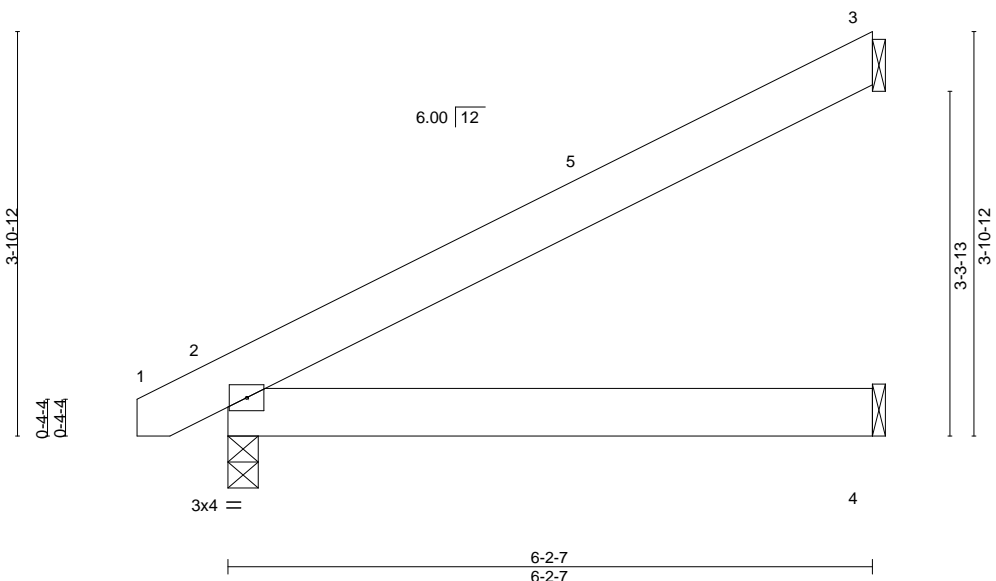
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:45 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-I6AXrKzM0EtAsJzH3UI8fonuC?CehUBp5Cb1V6zrsP4



Scale = 1:22.2



| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.22 | Vert(LL) -0.02 | 2-4 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.14 | Vert(CT) -0.03 | 2-4 | >999 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) -0.00 | 3 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | Wind(LL) 0.00 | 2 | **** | 240 | Weight: 33 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=111(LC 12)
 Max Uplift 3=92(LC 12), 2=8(LC 12)
 Max Grav 3=176(LC 1), 2=295(LC 1), 4=120(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 6-1-11 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) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 3 and 8 lb uplift at joint 2.



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



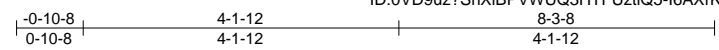
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | 43 Gale Spears | I56315386 |
| J0423-1754 | M1 | MONOPITCH | 8 | 1 | Job Reference (optional) | |

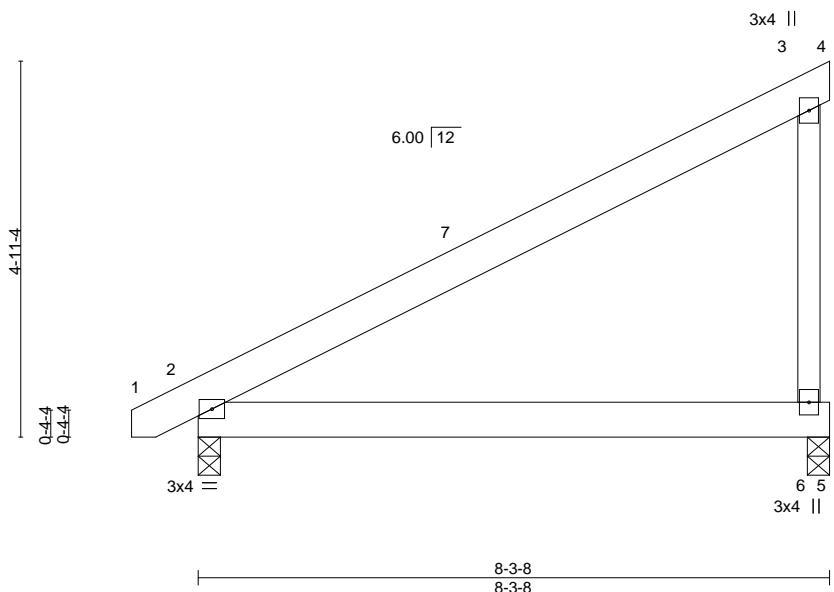
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jan 25 09:09:45 2023 Page 1

ID:0VD9uz?SnXiBPVWUQ3HTFUztiQ5-l6AXrKzM0EtAsJzH3UI8fonrO?BthUBp5Cb1V6zrsP4



Scale = 1:30.3



| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.40 | Vert(LL) -0.05 | 2-6 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.25 | Vert(CT) -0.10 | 2-6 | >911 | 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.00 | Horz(CT) 0.00 | n/a | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-P | Wind(LL) 0.00 | 2 | **** | 240 | Weight: 49 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.2 | |

REACTIONS. (size) 6=0-3-8, 2=0-3-8
 Max Horz 2=146(LC 12)
 Max Uplift 6=-74(LC 12), 2=-6(LC 12)
 Max Grav 6=323(LC 1), 2=369(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-6=-239/269

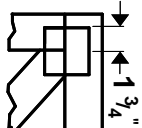
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 74 lb uplift at joint 6 and 6 lb uplift at joint 2.



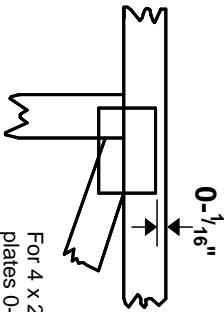
January 26, 2023

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

* Plate location details available in **MITek 20/20 software** or upon request.

PLATE SIZE

4 X 4

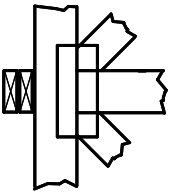
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



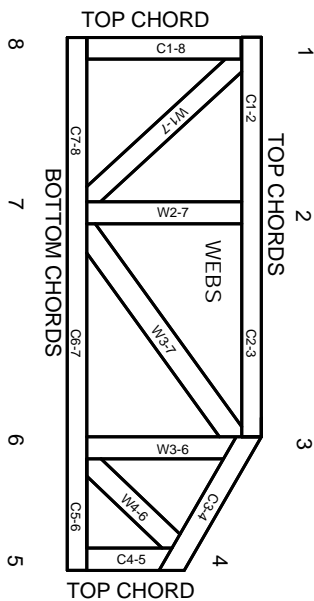
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

© 2012 MITteK® All Rights Reserved



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.