

RE: 4600512

SUNSET A - LOT 41 - ILA'S WAY

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: 4600512

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

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.8

Wind Code: ASCE 7 - 16[Low Rise] Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 18 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|----------|
| 1 | 172459532 | A01G | 4/2/2025 |
| 2 | 172459533 | A02 | 4/2/2025 |
| 3 | 172459534 | A02A | 4/2/2025 |
| 4 | 172459535 | A03 | 4/2/2025 |
| 5 | 172459536 | A04 | 4/2/2025 |
| 6 | 172459537 | A05 | 4/2/2025 |
| 7 | 172459538 | A06 | 4/2/2025 |
| 8 | 172459539 | A07 | 4/2/2025 |
| 9 | 172459540 | A08 | 4/2/2025 |
| 10 | 172459541 | A09 | 4/2/2025 |
| 11 | 172459542 | B01G | 4/2/2025 |
| 12 | 172459543 | C01 | 4/2/2025 |
| 13 | 172459544 | C02 | 4/2/2025 |
| 14 | 172459545 | J01 | 4/2/2025 |
| 15 | 172459546 | J02G | 4/2/2025 |
| 16 | 172459547 | J03 | 4/2/2025 |
| 17 | 172459548 | J04 | 4/2/2025 |
| 18 | 172459549 | M01 | 4/2/2025 |
| | | | |

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Builders FirstSource (Albermarle, NC).

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

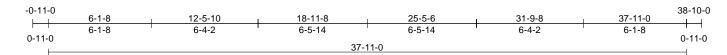
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

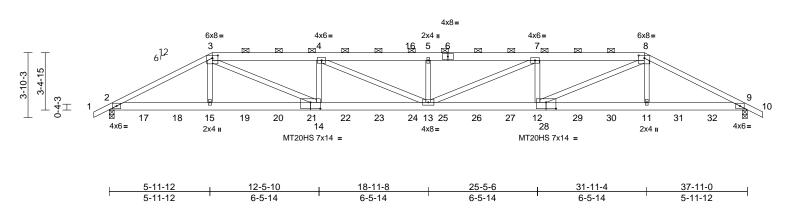


April 02, 2025

| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|-----------|
| 4600512 | A01G | Hip Girder | 1 | 2 | Job Reference (optional) | 172459532 |

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:07 ID:N8N01_e?VFGd6hN7m8o7YkyST3m-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:68.5

Plate Offsets (X, Y): [3:0-4-0,0-1-15], [8:0-4-0,0-1-15], [12:0-7-0,0-4-8], [14:0-7-0,0-4-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.42 | Vert(LL) | -0.44 | 13-14 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.53 | Vert(CT) | -0.72 | 13-14 | >626 | 180 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.67 | Horz(CT) | 0.13 | 9 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 462 lb | FT = 20% |

LUMBER

2x4 SP 2400F 2 0F or 2x4 SP DSS or 2x4 SP TOP CHORD

SS *Except* 3-6,6-8:2x6 SP 2400F 2.0E or 2x6 SP DSS

BOT CHORD

2x6 SP 2400F 2.0E or 2x6 SP DSS WEBS

2x4 SP No.3 *Except*

14-3,12-8,13-4,13-7:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-5 oc purlins, except

2-0-0 oc purlins (4-8-15 max.): 3-8. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=58 (LC 12)

Max Uplift 2=-860 (LC 9), 9=-860 (LC 8) Max Grav 2=3990 (LC 36), 9=3990 (LC 36)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/40, 2-3=-8174/1845, 3-4=-12209/2842,

4-5=-13834/3224, 5-7=-13834/3224, 7-8=-12208/2843, 8-9=-8174/1845,

9-10=0/40

BOT CHORD 2-15=-1625/7291, 13-15=-2796/12208,

11-13=-2767/12207, 9-11=-1592/7291 **WEBS** 3-15=-170/1024, 8-11=-171/1024,

3-14=-1351/5487, 8-12=-1351/5486,

4-14=-1373/383, 4-13=-453/1787, 5-13=-478/168, 7-13=-453/1788,

7-12=-1372/383

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

- Web 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.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- 12) All bearings are assumed to be SP 2400F 2.0E or DSS .

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 860 lb uplift at joint 2 and 860 lb uplift at joint 9.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 2,2025

ontinued on page 2

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)



| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|-----------|
| 4600512 | A01G | Hip Girder | 1 | 2 | Job Reference (optional) | 172459532 |

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:07 $ID:N8N01_e?VFGd6hN7m8o7YkyST3m-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f$ Page: 2

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 273 lb down and 55 lb up at 2-0-12, 216 lb down and 42 lb up at 4-0-12, 262 lb down and 83 lb up at 6-0-12, 262 lb down and 83 lb up at 8-0-12, 262 lb down and 83 lb up at 10-0-12, 262 lb down and 83 lb up at 12-0-12, 262 lb down and 83 lb up at 14-0-12, 262 lb down and 83 lb up at 16-0-12, 262 lb down and 83 lb up at 18-0-12, 262 lb down and 83 lb up at 19-10-4, 262 lb down and 83 lb up at 21-10-4, 262 lb down and 83 lb up at 23-10-4, 262 lb down and 83 lb up at 25-10-4, 262 lb down and 83 lb up at 27-10-4, 262 lb down and 83 lb up at 29-10-4, 262 lb down and 83 lb up at 31-10-4, and 216 lb down and 42 lb up at 33-10-4, and 273 lb down and 55 lb up at 35-10-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-51, 3-8=-61, 8-10=-51, 2-9=-20

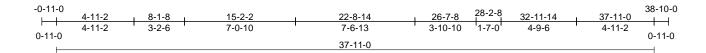
Concentrated Loads (lb) Vert: 15=-262, 11=-262, 17=-273, 18=-216, 19=-262, 20=-262, 21=-262, 22=-262, 23=-262, 24=-262, 25=-262, 26=-262, 27=-262, 28=-262, 29=-262, 30=-262, 31=-216, 32=-273

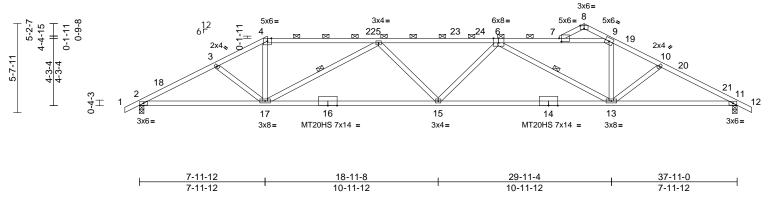


818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|--------------|-----|-----|-------------------------------|-----------|
| 4600512 | A02 | Roof Special | 1 | 1 | Job Reference (optional) | I72459533 |

Run: 8.83 S. Mar 20.2025 Print: 8.830 S.Mar 20.2025 MiTek Industries. Inc. Wed Apr 02.09:06:09 ID:QMVr5hNFQOW8WmmHAIJquBySSzf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:73.1

Plate Offsets (X, Y): [6:0-4-0,Edge], [7:0-1-12,0-2-8], [8:0-3-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.81 | Vert(LL) | -0.31 | 15 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.67 | 15-17 | >672 | 180 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.63 | Horz(CT) | 0.17 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 186 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-4:2x4 SP 2400F

2.0E or 2x4 SP DSS or 2x4 SP SS

BOT CHORD 2x4 SP No.1 *Except* 16-14:2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP SS

WFBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-2 oc purlins, except

2-0-0 oc purlins (2-8-1 max.): 4-9. BOT CHORD Rigid ceiling directly applied or 8-2-9 oc

bracing.

WEBS 5-17, 6-13

1 Row at midpt

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

Max Horiz 2=-89 (LC 13)

Max Uplift 2=-273 (LC 12), 11=-146 (LC 12)

Max Grav 2=1569 (LC 2), 11=1569 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-3=-3001/502, 3-4=-2956/463,

7-8=-144/29, 8-9=-185/52, 9-10=-2794/348,

10-11=-2891/341, 11-12=0/32,

4-5=-2631/436, 5-7=-4078/554,

7-9=-2389/302

BOT CHORD 2-17=-461/2634, 15-17=-568/4026,

13-15=-515/3913, 11-13=-255/2505

WEBS 4-17=-79/956, 9-13=-52/940, 3-17=-297/129,

10-13=-190/152, 5-15=0/314,

5-17=-1598/288, 6-15=0/317,

6-13=-1633/322

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.1.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 11 and 273 lb uplift at joint 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 2,2025



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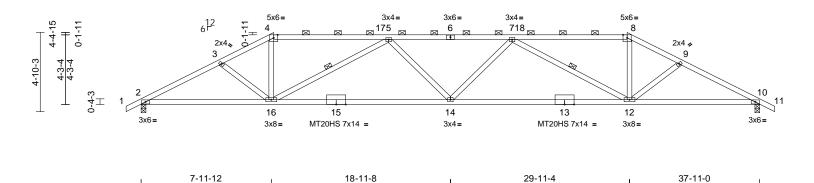
| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|-----------|
| 4600512 | A02A | Hip | 1 | 1 | Job Reference (optional) | 172459534 |

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:09 ID:QMVr5hNFQOW8WmmHAlJquBySSzf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10-11-12

Page: 1





Scale = 1:70.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.73 | Vert(LL) | -0.34 | 14 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.91 | Vert(CT) | -0.70 | 14-16 | >648 | 180 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.65 | Horz(CT) | 0.18 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 181 lb | FT = 20% |

10-11-12

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-6.6-8:2x4 SP 2400F 2 0F or 2x4 SP DSS or 2x4 SP SS

7-11-12

BOT CHORD 2x4 SP No.1 *Except* 15-13:2x4 SP 2400F

2.0E or 2x4 SP DSS or 2x4 SP SS

WFBS 2x4 SP No 3

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-11-11 oc purlins, except

2-0-0 oc purlins (2-7-14 max.): 4-8. BOT CHORD Rigid ceiling directly applied or 8-10-1 oc

bracing.

WEBS 1 Row at midpt 5-16, 7-12

2=0-3-8, 10=0-3-8 **REACTIONS** (size) Max Horiz 2=-74 (LC 17)

Max Uplift 2=-149 (LC 9), 10=-149 (LC 8)

Max Grav 2=1588 (LC 36), 10=1588 (LC 36)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-3=-3101/338, 3-4=-3059/335,

4-5=-2723/313, 5-7=-4305/466,

7-8=-2723/313. 8-9=-3059/335.

9-10=-3101/338, 10-11=0/34

BOT CHORD 2-16=-297/2723, 14-16=-490/4198, 12-14=-465/4198, 10-12=-250/2723

4-16=-39/997, 8-12=-39/997, 3-16=-295/156,

9-12=-295/156, 5-14=0/315, 5-16=-1689/319,

7-14=0/315, 7-12=-1689/319

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.1.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 2 and 149 lb uplift at joint 10.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



7-11-12

April 2,2025

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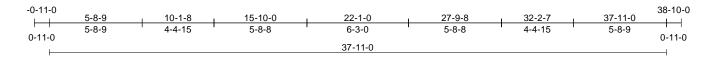
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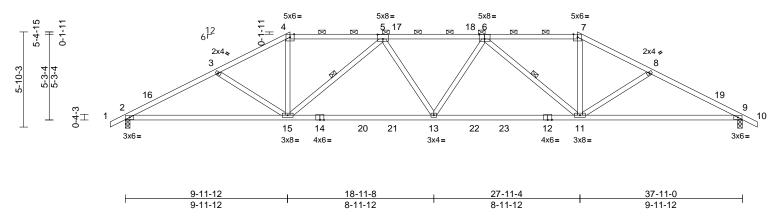


| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|-----------|
| 4600512 | A03 | Hip | 2 | 1 | Job Reference (optional) | 172459535 |

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:10 ID:s6POGD3Rh51Qi7u_pSIQ1VySSxU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:70.8

Plate Offsets (X, Y): [5:0-4-0,0-3-4], [6:0-4-0,0-3-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.73 | Vert(LL) | -0.24 | 9-11 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.82 | Vert(CT) | -0.54 | 9-11 | >842 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.38 | Horz(CT) | 0.15 | 9 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 187 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-6-7 oc purlins, except

2-0-0 oc purlins (2-7-10 max.): 4-7.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. WEBS

1 Row at midpt 5-15, 6-11 REACTIONS 2=0-3-8, 9=0-3-8

(size) Max Horiz 2=-91 (LC 17)

Max Uplift 2=-123 (LC 12), 9=-123 (LC 13)

Max Grav 2=1600 (LC 37), 9=1600 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-3=-2830/283, 3-4=-2714/267,

4-5=-2393/254, 5-7=-3225/328,

7-8=-2714/267, 8-9=-2830/284, 9-10=0/34

BOT CHORD 2-15=-254/2479, 13-15=-307/3173,

11-13=-281/3173, 9-11=-195/2479 **WEBS** 3-15=-453/202, 4-15=-23/916, 7-11=-23/916,

8-11=-453/203, 5-13=0/199, 5-15=-1028/222,

6-13=0/199, 6-11=-1028/222

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 2 and 123 lb uplift at joint 9.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 2,2025



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

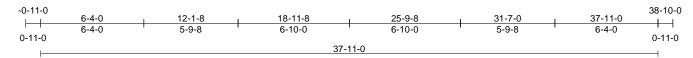
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, 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)

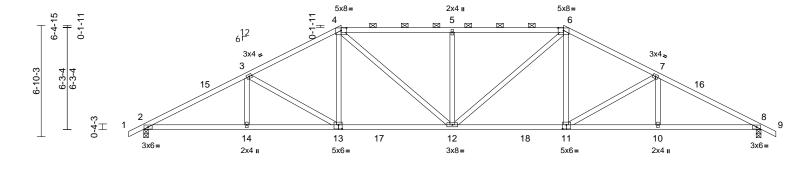




Run: 8.83 S. Mar 20 2025 Print: 8.830 S. Mar 20 2025 MiTek Industries. Inc. Wed Apr 02 09:06:10. ID:DyuGlcZDUBfqaBNq4UXV3eySSvY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





6-4-0 11-11-12 18-11-8 25-11-4 31-7-0 37-11-0 6-4-0 5-7-12 6-11-12 6-11-12 5-7-12 6-4-0 Scale = 1:70.8

Plate Offsets (X, Y): [4:0-4-0,0-1-15], [6:0-4-0,0-1-15], [11:0-2-12,0-3-0], [13:0-2-12,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.88 | Vert(LL) | -0.17 | 12 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.89 | Vert(CT) | -0.37 | 11-12 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.58 | Horz(CT) | 0.15 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 199 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-6:2x4 SP No.1 2x4 SP No.2

BOT CHORD WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (2-2-0 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 2=-108 (LC 13)

Max Uplift 2=-144 (LC 12), 8=-144 (LC 13)

Max Grav 2=1678 (LC 37), 8=1678 (LC 37) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-3=-3037/209, 3-4=-2383/209,

4-5=-2569/246, 5-6=-2569/246,

6-7=-2383/209, 7-8=-3037/210, 8-9=0/32

BOT CHORD 2-14=-207/2601, 12-14=-207/2601,

10-12=-100/2601, 8-10=-100/2601 **WEBS** 3-14=0/248, 3-13=-719/189, 4-13=-19/489,

4-12=-142/669, 5-12=-743/217,

6-12=-142/669, 6-11=-19/489, 7-11=-719/190,

7-10=0/248

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0

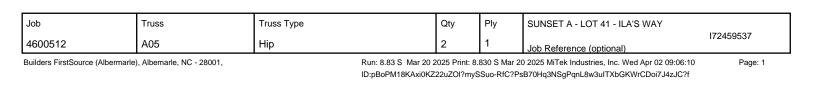
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 2 and 144 lb uplift at joint 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 2,2025





18-11-8

4-10-0

6-2-4

23-9-8

4-10-0

29-11-12

6-2-4

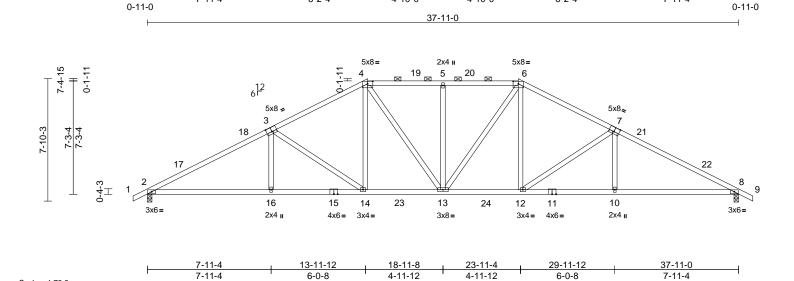


Plate Offsets (X, Y): [3:0-4-0,0-3-4], [4:0-4-0,0-1-15], [6:0-4-0,0-1-15], [7:0-4-0,0-3-4]

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.98 | Vert(LL) | -0.17 | 12-13 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.74 | Vert(CT) | -0.32 | 12-13 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.85 | Horz(CT) | 0.14 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 207 lb | FT = 20% |

LUMBER

Scale = 1:73.9

2x4 SP No.2 *Except* 1-3.7-9:2x4 SP 2400F TOP CHORD

-0-11-0

7-11-4

7-11-4

2.0E or 2x4 SP DSS or 2x4 SP SS

BOT CHORD 2x4 SP No.1 *Except* 15-11:2x4 SP No.2

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-9-4 max.): 4-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=-125 (LC 17)

Max Uplift 2=-163 (LC 12), 8=-163 (LC 13) Max Grav 2=1713 (LC 37), 8=1713 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-4=-3119/235, 4-5=-2059/170, 5-6=-2059/170, 6-8=-3119/236, 8-9=0/32

BOT CHORD 2-16=-228/2681, 14-16=-228/2681,

13-14=-50/1962, 12-13=0/1962,

10-12=-104/2681, 8-10=-104/2681 **WEBS** 3-14=-848/212, 4-14=-53/561, 6-12=-53/561,

7-12=-848/213, 6-13=-105/413,

5-13=-535/152, 4-13=-105/413, 3-16=0/318,

7-10=0/318

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 2 and 163 lb uplift at joint 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 2,2025

38-10-0

+

7-11-4



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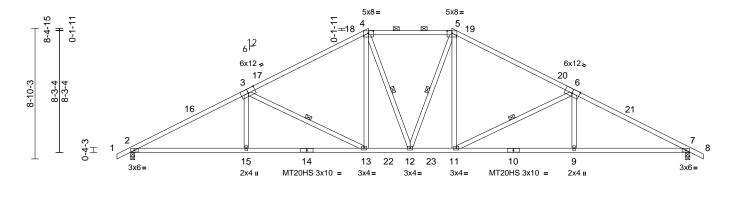


| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|----------|
| 4600512 | A06 | Hip | 2 | 1 | Job Reference (optional) | 72459538 |

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18-11-8 | 21-11-4 2-11-12 | 2-11-12 7-10-2 15-11-12 30-0-14 37-11-0 7-10-2 8-1-10 8-1-10 7-10-2 Scale = 1:78.1

Plate Offsets (X, Y): [3:0-6-0,Edge], [4:0-4-0,0-1-15], [5:0-4-0,0-1-15], [6:0-6-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.96 | Vert(LL) | -0.18 | 9-11 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.97 | Vert(CT) | -0.38 | 9-11 | >999 | 180 | MT20HS | 187/143 |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.44 | Horz(CT) | 0.17 | 7 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 206 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP

SS *Except* 4-5:2x4 SP No.2

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (2-10-13 max.): 4-5. Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 3-13, 6-11, 4-12, 5-12

REACTIONS 2=0-3-8, 7=0-3-8 (size)

Max Horiz 2=-141 (LC 13)

Max Uplift 2=-180 (LC 12), 7=-180 (LC 13)

Max Grav 2=1756 (LC 37), 7=1756 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-4=-3292/278, 4-5=-1968/210,

5-7=-3292/278, 7-8=0/32 **BOT CHORD**

2-15=-287/2876, 13-15=-289/2873, 12-13=-53/1968, 11-12=0/1968,

9-11=-148/2873, 7-9=-146/2876

3-15=0/353, 3-13=-999/263, 4-13=-30/581, **WEBS**

5-11=-30/581, 6-11=-999/264, 6-9=0/353,

4-12=-157/155, 5-12=-157/155

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SP No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 2 and 180 lb uplift at joint 7.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 2,2025



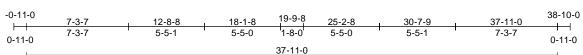
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

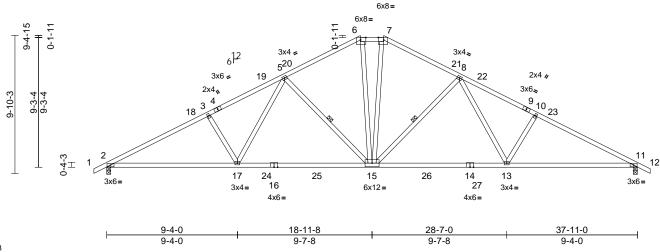
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| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|--------------------------------|---------|
| 4600512 | A07 | Hip | 2 | 1 | I7 Job Reference (optional) | 2459539 |

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Scale = 1:82.3 Plate Offsets (X, Y): [6:0-4-10,Edge], [7:0-4-10,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.82 | Vert(LL) | -0.31 | 15-17 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.83 | Vert(CT) | -0.53 | 15-17 | >850 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | 0.15 | 11 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 206 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4,9-12:2x4 SP No.1 BOT CHORD 2x4 SP No.1

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (3-11-8 max.): 6-7. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 5-15, 8-15

REACTIONS 2=0-3-8, 11=0-3-8 (size) Max Horiz 2=-158 (LC 13)

Max Uplift 2=-194 (LC 12), 11=-194 (LC 13)

Max Grav 2=1799 (LC 37), 11=1799 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=0/32, 2-3=-3368/318, 3-5=-3183/335,

5-6=-2214/240, 6-7=-1948/237, 7-8=-2214/240, 8-10=-3183/335,

10-11=-3368/318, 11-12=0/32 **BOT CHORD** 2-17=-341/2946, 15-17=-195/2464,

13-15=-59/2464, 11-13=-184/2946

WFBS 3-17=-388/216, 5-17=-81/614,

5-15=-828/233, 8-15=-828/233,

8-13=-81/615, 10-13=-388/216,

6-15=-82/689, 7-15=-81/689

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 2 and 194 lb uplift at joint 11.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 2,2025

Page: 1

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

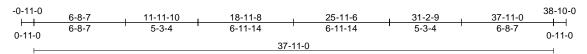
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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)

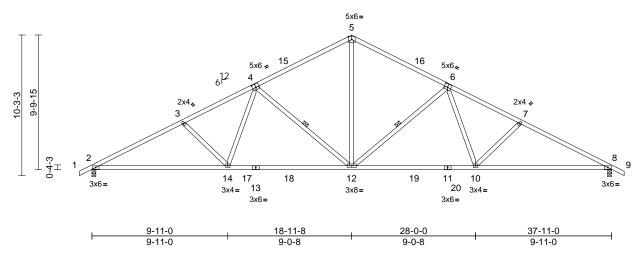


| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|-----------|
| 4600512 | A08 | Common | 4 | 1 | Job Reference (optional) | 172459540 |

Run: 8.83 S. Mar 20 2025 Print: 8.830 S. Mar 20 2025 MiTek Industries. Inc. Wed Apr 02 09:06:12 ID:PrXPdG5yJ6hDMAfcivD7xWySSn6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:84.1 Plate Offsets (X, Y): [4:0-3-0,0-3-0], [6:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.94 | Vert(LL) | -0.23 | 10-12 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.90 | Vert(CT) | -0.52 | 2-14 | >862 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.46 | Horz(CT) | 0.13 | 8 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 195 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 1-4.6-9:2x4 SP No.2 2x4 SP No.1 *Except* 13-11:2x4 SP No.2 BOT CHORD **WEBS** 2x4 SP No.3

BRACING

TOP CHORD BOT CHORD

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

bracing.

WEBS 1 Row at midpt 4-12, 6-12 REACTIONS (size) 2=0-3-8 8=0-3-8 Max Horiz 2=-166 (LC 17)

Max Uplift 2=-200 (LC 12), 8=-200 (LC 13) Max Grav 2=1569 (LC 2), 8=1569 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/32, 2-3=-2793/342, 3-5=-2538/311,

5-7=-2538/311, 7-8=-2793/342, 8-9=0/32 **BOT CHORD** 2-14=-376/2427, 12-14=-234/2063,

10-12=-74/2063, 8-10=-211/2427 **WEBS** 4-14=-19/521, 3-14=-315/193,

4-12=-736/249, 5-12=-85/1114, 6-12=-736/250, 6-10=-20/521, 7-10=-315/193

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp : Ce=1 0: Cs=1 00: Ct=1 10
- Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 200 lb uplift at joint 2 and 200 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 2,2025



| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|-----------|
| 4600512 | A09 | Common | 6 | 1 | Job Reference (optional) | 172459541 |

37-11-0

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

-0-11-0

 \vdash

0-11-0

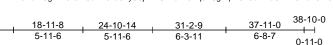
6-8-7

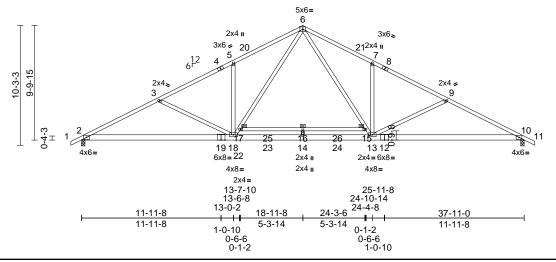
6-8-7

13-0-2

6-3-11

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:12 ID:sDbWCg?7Y920mCawK02eCLySSjL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:98.7

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.80 | Vert(LL) | -0.41 | 16 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.85 | Vert(CT) | -0.69 | 16 | >651 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.09 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 243 lb | FT = 20% |

LUMBER

2x4 SP No.2 TOP CHORD

2x6 SP No.2 *Except* 17-15:2x4 SP No.2, **BOT CHORD**

19-12:2x6 SP 2400F 2.0E or 2x6 SP DSS

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=-166 (LC 13)

Max Uplift 2=-134 (LC 12), 10=-134 (LC 13) Max Grav 2=1679 (LC 2), 10=1679 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/37. 2-3=-3137/227. 3-5=-2774/105.

5-6=-2772/245, 6-7=-2772/245,

7-9=-2774/105, 9-10=-3137/228, 10-11=0/37

BOT CHORD 2-18=-275/2742, 14-18=0/1764,

13-14=0/1764, 10-13=-110/2742

16-17=-42/0, 15-16=-42/0

5-18=-393/242, 17-18=-193/1191, 6-17=-158/1273, 3-18=-450/262,

7-13=-393/242, 9-13=-450/263,

14-16=-275/0, 6-15=-158/1273,

13-15=-192/1191

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 2 and 134 lb uplift at joint 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 2,2025

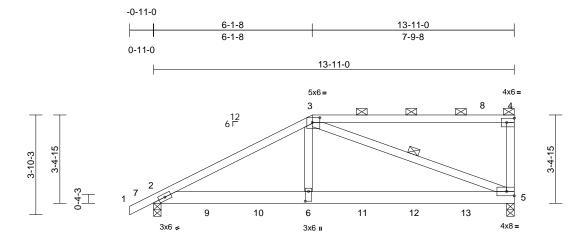
Page: 1



| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|-----------------|-----|-----|-------------------------------|----------|
| 4600512 | B01G | Half Hip Girder | 1 | 1 | Job Reference (optional) | 72459542 |

Run: 8.83 S. Mar 20.2025 Print: 8.830 S.Mar 20.2025 MiTek Industries. Inc. Wed Apr 02.09:06:12 ID:tzE3Guzmq?uFK4Xn6gMbRWyS8T7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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5-11-12 13-11-0 5-11-12 7-11-4

Plate Offsets (X, Y): [3:0-3-8,0-2-4], [4:Edge,0-2-0], [6:0-4-8,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.90 | Vert(LL) | -0.12 | 5-6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.21 | 5-6 | >796 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.70 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 76 lb | FT = 20% |

LUMBER

2x4 SP No.2 *Except* 3-4:2x4 SP 2400F TOP CHORD

2.0E or 2x4 SP DSS or 2x4 SP SS 2x6 SP 2400F 2.0E or 2x6 SP DSS

WEBS 2x4 SP No.3 *Except* 4-5:2x4 SP No.2

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

1-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt REACTIONS 2=0-3-8, 5=0-3-8

(size) Max Horiz 2=134 (LC 12)

Max Uplift 2=-267 (LC 12), 5=-323 (LC 9)

Max Grav 2=1457 (LC 34), 5=1440 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/40, 2-3=-2176/436, 3-4=-146/39, 4-5=-344/105

BOT CHORD

2-6=-412/1884, 5-6=-403/1828 3-6=-214/1236, 3-5=-1812/402

WEBS

- NOTES Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E or DSS
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 5 and 267 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 273 lb down and 55 lb up at 2-0-12, 216 lb down and 43 lb up at 4-0-12, 262 lb down and 83 lb up at 6-0-12, 262 lb down and 83 lb up at $\,$ 8-0-12, and 262 lb down and 83 $\,$ Ib up at 10-0-12, and 262 lb down and 83 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-51, 3-4=-61, 2-5=-20

Concentrated Loads (lb)

Vert: 6=-262, 9=-273, 10=-216, 11=-262, 12=-262,



April 2,2025



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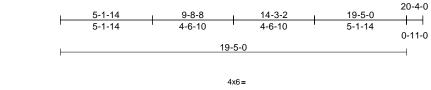
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)

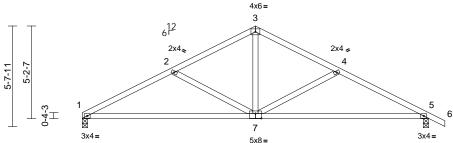


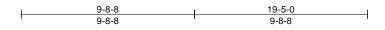
| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|-----------|
| 4600512 | C01 | Common | 3 | 1 | Job Reference (optional) | 172459543 |

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:13 ID:nbixGq_5b?6pSKHe23n8JuySRt8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:64.6

Plate Offsets (X, Y): [7:0-4-0,0-3-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.35 | Vert(LL) | -0.19 | 1-7 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.99 | Vert(CT) | -0.40 | 1-7 | >580 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | 0.03 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 85 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

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

Max Horiz 1=-96 (LC 13)

Max Uplift 1=-89 (LC 12), 5=-113 (LC 13)

Max Grav 1=763 (LC 2), 5=831 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1281/189, 2-3=-963/110, 3-4=-962/111,

4-5=-1276/184, 5-6=0/32 **BOT CHORD** 1-5=-185/1101

WEBS 3-7=-5/572, 2-7=-383/210, 4-7=-377/204

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 1 and 113 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



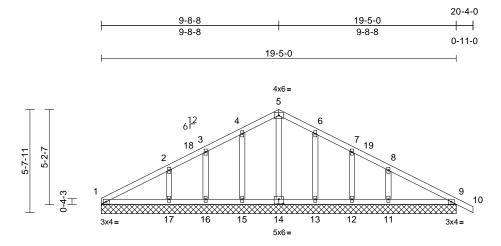
April 2,2025



| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------------------|-----|-----|-------------------------------|-----------|
| 4600512 | C02 | Common Supported Gable | 1 | 1 | Job Reference (optional) | I72459544 |

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:13 ID:YPiOWOInihGGy9hR?pj?p9ySRsI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





19-5-0

Plate Offsets (X, Y): [14:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 9 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | | |
| BCDL | 10.0 | 1 | | 1 | | | | | | | Weight: 94 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **OTHERS** 2x4 SP No.3

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) 1=19-5-0, 9=19-5-0, 11=19-5-0, 12=19-5-0, 13=19-5-0, 14=19-5-0, 15=19-5-0, 16=19-5-0, 17=19-5-0

Max Horiz 1=-96 (LC 13)

Max Uplift 1=-12 (LC 13), 9=-26 (LC 13),

11=-86 (LC 13), 12=-35 (LC 13), 13=-53 (LC 13), 15=-55 (LC 12), 16=-31 (LC 12), 17=-93 (LC 12)

Max Grav 1=126 (LC 2), 9=190 (LC 2),

11=288 (LC 33), 12=139 (LC 20), 13=225 (LC 20), 14=214 (LC 29),

15=226 (LC 19), 16=134 (LC 19),

17=302 (LC 32)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-89/72, 2-3=-58/81, 3-4=-42/102, 4-5=-52/126, 5-6=-52/119, 6-7=-42/73,

7-8=-51/43, 8-9=-70/46, 9-10=0/31 **BOT CHORD** 1-17=-6/83, 16-17=-6/83, 15-16=-6/83,

13-15=-6/83, 12-13=-6/83, 11-12=-6/83, 9-11=-6/83

WEBS 5-14=-109/0, 4-15=-181/80, 3-16=-112/51,

2-17=-217/128, 6-13=-180/79, 7-12=-117/55,

8-11=-206/120

NOTES

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=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) All bearings are assumed to be SP No.2
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 26 lb uplift at joint 9, 55 lb uplift at joint 15, 31 lb uplift at joint 16, 93 lb uplift at joint 17, 53 lb uplift at joint 13, 35 lb uplift at joint 12 and 86 lb uplift at joint 11.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 2,2025

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

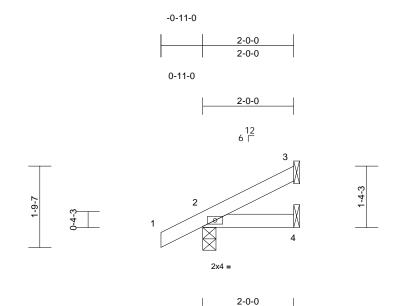
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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)



| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|-----------|
| 4600512 | J01 | Jack-Open | 6 | 1 | Job Reference (optional) | 172459545 |

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:13 ID:IAseccew2loPfwXAOCpghEyST53-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:25.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.08 | Vert(LL) | 0.00 | 2-4 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.04 | Vert(CT) | 0.00 | 2-4 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 8 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

2=0-3-8, 3= Mechanical, 4= Mechanical

Max Horiz 2=54 (LC 12)

Max Uplift 2=-30 (LC 12), 3=-30 (LC 12)

2=176 (LC 19), 3=55 (LC 19), 4=39 Max Grav

(LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-41/19

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2 and 30 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 2,2025



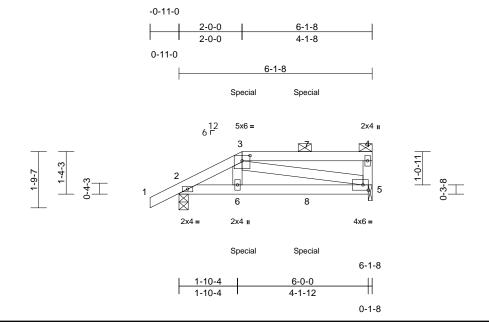
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)



| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|-----------------|-----|-----|-------------------------------|-----------|
| 4600512 | J02G | Half Hip Girder | 3 | 1 | Job Reference (optional) | 172459546 |

Run: 8.83 S. Mar 20 2025 Print: 8.830 S. Mar 20 2025 MiTek Industries. Inc. Wed Apr 02 09:06:14 ID:J_SwJ2Fw1QEAGmw_uQDdF_yST4G-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:36.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.50 | Vert(LL) | -0.01 | 5-6 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.22 | Vert(CT) | -0.03 | 5-6 | >999 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | NO | WB | 0.12 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 28 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 2=0-3-8, 5=0-1-8 Max Horiz 2=55 (LC 12)

Max Uplift 2=-54 (LC 12), 5=-43 (LC 9)

Max Grav 2=348 (LC 34), 5=293 (LC 33)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-3=-387/23, 3-4=0/0, 4-5=-174/54

BOT CHORD 2-6=-27/321, 5-6=-34/311

WEBS 3-6=0/162, 3-5=-321/36

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- Provide adequate drainage to prevent water ponding.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2, Joint 5 SP No.3
- 10) 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 43 lb uplift at joint 5.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 46 lb down and 34 lb up at 2-0-0, and 53 lb down and 32 lb up at 4-0-12 on top chord, and 8 lb down at 2-0-12, and 8 lb down at 4-0-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- 16) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-51, 3-4=-61, 2-5=-20

Concentrated Loads (lb)

Vert: 3=-4 (F)



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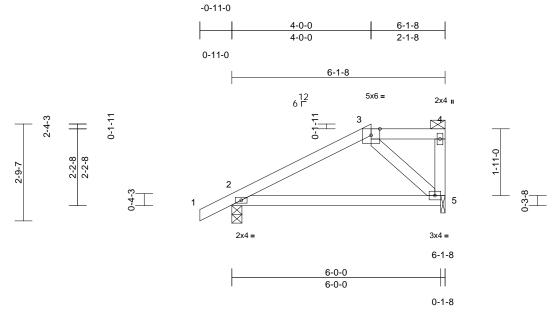
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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 | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|-----------|
| 4600512 | J03 | Half Hip | 3 | 1 | Job Reference (optional) | 172459547 |

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:14 ID:fyFpMIJ3sysSNXpxgzpoy1yST4B-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| Scal | \sim | _ | 1 | .2 | 2 |
|------|--------|---|---|----|---|
| | | | | | |

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.35 | Vert(LL) | -0.07 | 2-5 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 20.4/20.0 | Lumber DOL | 1.15 | BC | 0.44 | Vert(CT) | -0.14 | 2-5 | >504 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 27 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

BRACING

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins: 3-4. BOT CHORD

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

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

Max Horiz 2=89 (LC 12)

Max Uplift 2=-50 (LC 12), 5=-30 (LC 9)

Max Grav 2=395 (LC 34), 5=236 (LC 33) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-3=-220/29, 3-4=-2/2, 4-5=-87/26

BOT CHORD 2-5=-50/122 **WEBS** 3-5=-173/71

NOTES

FORCES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 , Joint 5 SP No.3
- 10) 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2 and 30 lb uplift at joint 5.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



April 2,2025

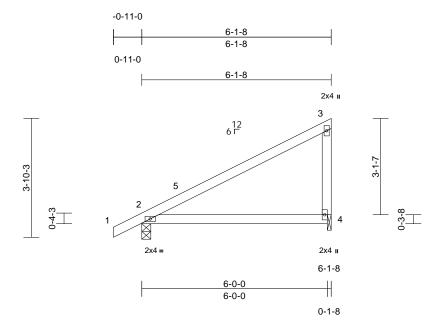




| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|-------------|-----|-----|-------------------------------|-----------|
| 4600512 | J04 | Jack-Closed | 18 | 1 | Job Reference (optional) | 172459548 |

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:14 ID:Xvv2VhlawWx7EJjvQbTnY7yST4w-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:37.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.85 | Vert(LL) | -0.07 | 2-4 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.43 | Vert(CT) | -0.14 | 2-4 | >504 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | n/a | - | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 25 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=131 (LC 12)

Max Uplift 2=-37 (LC 12), 4=-71 (LC 12)

Max Grav 2=319 (LC 19), 4=282 (LC 19) (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/32, 2-3=-90/82, 3-4=-224/106

BOT CHORD 2-4=0/0

NOTES

FORCES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 , Joint 4 SP No.3.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2 and 71 lb uplift at joint 4.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 2,2025

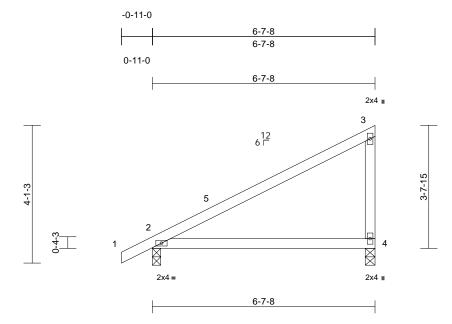




| Job | Truss | Truss Type | Qty | Ply | SUNSET A - LOT 41 - ILA'S WAY | |
|---------|-------|------------|-----|-----|-------------------------------|-----------|
| 4600512 | M01 | Monopitch | 3 | 1 | Job Reference (optional) | I72459549 |

Run: 8.83 S Mar 20 2025 Print: 8.830 S Mar 20 2025 MiTek Industries, Inc. Wed Apr 02 09:06:14 ID:_P8MGjAezcw7f8cQ8aXa83ySRqJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|-----------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.74 | Vert(LL) | -0.10 | 2-4 | >780 | 240 | MT20 | 244/190 |
| Snow (Pf/Pg) | 15.4/20.0 | Lumber DOL | 1.15 | BC | 0.52 | Vert(CT) | -0.20 | 2-4 | >390 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | n/a | - | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC2018/TPI2014 | Matrix-P | | | | | | | | |
| BCDL | 10.0 | | | 1 | | | | | | | Weight: 27 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS

BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=141 (LC 12)

Max Uplift 2=-38 (LC 12), 4=-77 (LC 12)

Max Grav 2=331 (LC 19), 4=306 (LC 19) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/32, 2-3=-97/88, 3-4=-242/115

BOT CHORD 2-4=0/0

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 4 and 38 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 2,2025



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- $\frac{1}{16}$ from outside edge of truss.

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

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

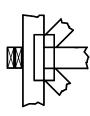
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/letter where bearings occur Min size shown is for crushing only.

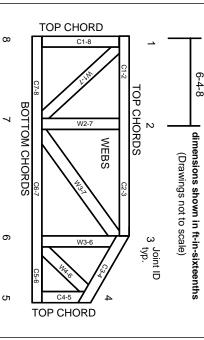
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: 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

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.

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MITEK



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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- 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.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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 environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.