

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: DLO201003  
SERENITY CLUBHOUSE

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

Pages or sheets covered by this seal: I55444863 thru I55444868

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



December 6, 2022

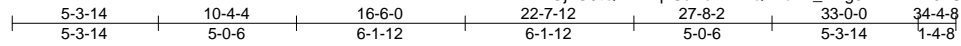
Gilbert, Eric

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

|           |       |            |     |     |                          |           |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| Job       | Truss | Truss Type | Qty | Ply | SERENITY CLUBHOUSE       | 155444863 |
| DLO201003 | CT1   | Common     | 8   | 1   | Job Reference (optional) |           |

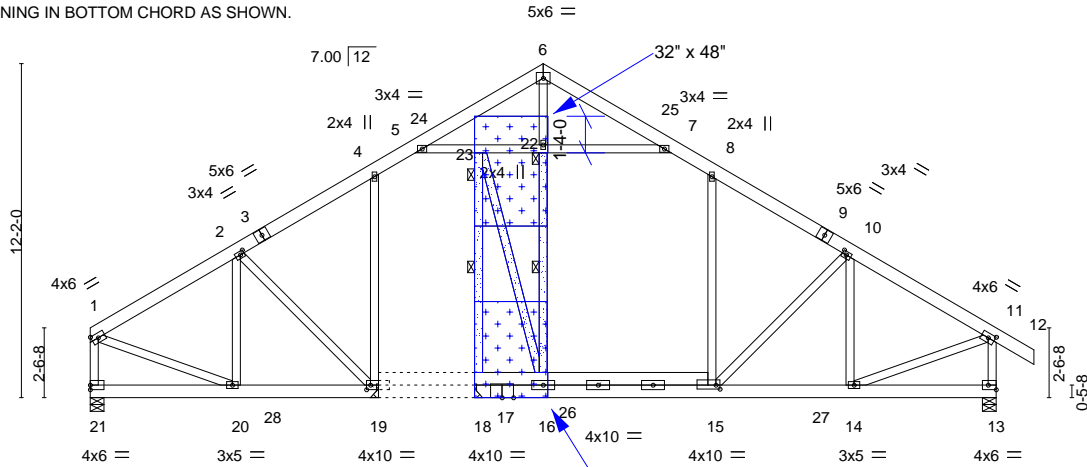
TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Thu Dec 1 12:22:52 2022 Page 1  
ID:nIzWxGjxG9tQzKvTqkSuPuzFEvQ-1lbrVi\_vMg5mEBAFY6?UoI09yTw?4gO2PD1D0cyDKs1

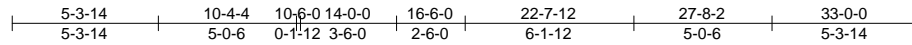


REPAIR: CUT 3/6" OPENING IN BOTTOM CHORD AS SHOWN.

Scale = 1:83.9



LUMBER AND CONNECTOR PLATES (SHOWN DASHED) TO BE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.



INSTALL 2 X 4 SP NO.2 CUT TO FIT TIGHT.



ATTACH 3/4" PLYWOOD OR OSB GUSSET (23/32" RATED SHEATHING 48/24 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [10:0-1-12,0-1-8], [11:0-2-14,0-2-0], [13:Edge,0-2-0], [15:0-1-12,0-1-12], [19:0-1-12,0-2-0]

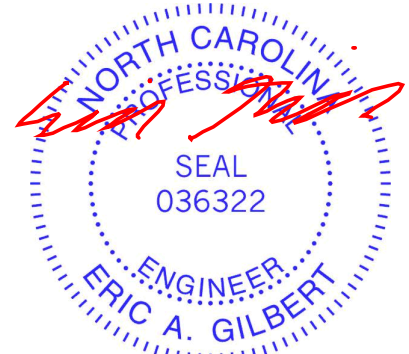
| LOADING (psf)    | SPACING-             | CSI.      | DEFL.                         | PLATES         | GRIP    |
|------------------|----------------------|-----------|-------------------------------|----------------|---------|
| TCLL (roof) 20.0 | 2-0-0                | TC 0.35   | in (loc) l/defl L/d           | MT20           | 244/190 |
| Snow (Pf) 15.0   | Plate Grip DOL 1.15  | BC 0.38   | Vert(LL) -0.09 14-15 >999 240 | MT20HS         | 187/143 |
| TCDL 10.0        | Lumber DOL 1.15      | WB 0.67   | Vert(CT) -0.17 14-15 >999 180 |                |         |
| BCLL 0.0 *       | Rep Stress Incr NO   | Matrix-MR | Horz(CT) 0.07 18 n/a n/a      |                |         |
| BCDL 10.0        | Code IBC2015/TPI2014 |           |                               | Weight: 314 lb | FT = 6% |

| LUMBER-   | BRACING-   |
|---|--|
| TOP CHORD 2x6 SP No.2                                 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.    |
| BOT CHORD 2x6 SP No.1D *Except*<br>15-18: 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:<br>6-0-0 oc bracing: 13-14. |
| WEBS 2x4 SP No.3                                      | WEBS 1 Row at midpt 18-23, 16-22   |
|   | JOINTS 1 Brace at Jt(s): 22, 23  |

**REACTIONS.** All bearings Mechanical except (jt=length) 21=0-6-0, 13=0-6-0.  
(lb) - Max Horz 21=-256(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 21 except 19=-157(LC 9), 13=-121(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) except 18=1328(LC 26), 19=502(LC 30), 21=471(LC 27), 13=965(LC 27)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-444/164, 2-3=-263/248, 3-4=-218/275, 5-24=0/501, 6-24=0/591, 6-25=0/590, 7-25=0/460, 7-8=-453/218, 8-9=-615/188, 9-10=-719/164, 10-11=-923/143, 1-21=-420/119, 11-13=-934/148  
BOT CHORD 15-16=-11/468, 15-27=-68/701, 14-27=-68/701, 20-21=-221/259, 20-28=-57/285, 19-28=-57/285  
WEBS 8-15=0/288, 10-15=-360/84, 2-19=-408/82, 1-20=-139/331, 11-14=-57/746, 5-23=-546/211, 22-23=-995/219, 7-22=-995/219, 6-22=-782/0, 18-23=-1617/22, 16-23=-33/1702, 16-22=-809/0

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
  - 4) 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 15.0 psf on overhangs non-concurrent with other live loads.
  - 6) N/A
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide



Continue on page 2  
Connect to the bottom chord and any other members, with BCDL = 10.0psf.

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
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|-----------|-------|------------|-----|-----|--------------------------|-----------|
| Job       | Truss | Truss Type | Qty | Ply | SERENITY CLUBHOUSE       | 155444863 |
| DLO201003 | CT1   | Common     | 8   | 1   | Job Reference (optional) |           |

TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Thu Dec 1 12:22:52 2022 Page 2  
ID:nIzwxGjxG9tQzKvTqkSuPuzFEvQ-1lbrVi\_vMg5mEBAFY6?UoIO9yTw?4gO2PD1D0cyDKs1

**NOTES-**

- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21 except (jt=lb) 19=157, 13=121.
- 11) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) 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)**

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-11=-50, 11-12=-50, 16-18=-20, 15-16=-60(F=-40), 13-15=-20, 19-21=-20
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-60, 6-11=-60, 11-12=-60, 16-18=-20, 15-16=-66(F=-46), 13-15=-20, 19-21=-20
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-11=-50, 11-12=-50, 18-26=-50, 16-26=-20, 15-16=-90(F=-40), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-43, 6-11=-42, 11-12=-43, 18-26=-50, 16-26=-20, 15-16=-86(F=-36), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-24=-43, 6-24=-65, 6-11=-27, 11-12=-27, 18-26=-50, 16-26=-20, 15-16=-86(F=-36), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-27, 6-25=-63, 11-25=-42, 11-12=-43, 18-26=-50, 16-26=-20, 15-16=-86(F=-36), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 11-12=-20, 16-18=-40, 15-16=-74(F=-34), 13-15=-40, 19-21=-40
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-14, 6-11=5, 11-12=1, 16-18=-12, 15-16=-16(F=-4), 13-15=-12, 19-21=-12  
Horz: 1-6=2, 6-11=17, 11-12=13, 1-21=12, 11-13=16
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=5, 6-11=-14, 11-12=-4, 16-18=-12, 15-16=-14(F=-2), 13-15=-12, 19-21=-12  
Horz: 1-6=-17, 6-11=-2, 11-12=8, 1-21=-16, 11-13=-12
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-31, 6-11=-12, 11-12=-7, 16-18=-20, 15-16=-55(F=-35), 13-15=-20, 19-21=-20  
Horz: 1-6=11, 6-11=8, 11-12=13, 1-21=21, 11-13=7
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-12, 6-11=-31, 11-12=-27, 16-18=-20, 15-16=-49(F=-29), 13-15=-20, 19-21=-20  
Horz: 1-6=-8, 6-11=-11, 11-12=-7, 1-21=-7, 11-13=-21
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=18, 6-11=5, 11-12=1, 16-18=-12, 15-16=-8(F=4), 13-15=-12, 19-21=-12  
Horz: 1-6=-30, 6-11=17, 11-12=13, 1-21=10, 11-13=15
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=5, 6-11=18, 11-12=14, 16-18=-12, 15-16=-8(F=4), 13-15=-12, 19-21=-12  
Horz: 1-6=-17, 6-11=30, 11-12=26, 1-21=-15, 11-13=10
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=9, 6-11=1, 11-12=-3, 16-18=-12, 15-16=-14(F=-2), 13-15=-12, 19-21=-12  
Horz: 1-6=-21, 6-11=13, 11-12=9, 1-21=5, 11-13=11
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=1, 6-11=9, 11-12=5, 16-18=-12, 15-16=-14(F=-2), 13-15=-12, 19-21=-12  
Horz: 1-6=-13, 6-11=21, 11-12=17, 1-21=-11, 11-13=-5
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=2, 6-11=-12, 11-12=-7, 16-18=-20, 15-16=-54(F=-34), 13-15=-20, 19-21=-20  
Horz: 1-6=-22, 6-11=8, 11-12=13, 1-21=19, 11-13=6
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-12, 6-11=2, 11-12=6, 16-18=-20, 15-16=-45(F=-25), 13-15=-20, 19-21=-20  
Horz: 1-6=-8, 6-11=22, 11-12=26, 1-21=-6, 11-13=-19
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 11-12=-80, 16-18=-20, 15-16=-43(F=-23), 13-15=-20, 19-21=-20
- 19) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-24=-50, 6-24=-80, 6-11=-29, 11-12=-29, 16-18=-20, 15-16=-60(F=-40), 13-15=-20, 19-21=-20
- 20) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-29, 6-25=-78, 11-25=-50, 11-12=-50, 16-18=-20, 15-16=-60(F=-40), 13-15=-20, 19-21=-20
- 21) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Continued on page 3

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| Job       | Truss | Truss Type | Qty | Ply | SERENITY CLUBHOUSE       | 155444863 |
| DLO201003 | CT1   | Common     | 8   | 1   | Job Reference (optional) |           |

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8.530 s May 26 2022 MiTek Industries, Inc. Thu Dec 1 12:22:52 2022 Page 3  
 ID:nlZwxGjxG9tQzKvTqkSuPuzFevQ-1lbrVi\_vMg5mEBAFY6?UolO9yTw?4gO2PD1D0cyDKs1

**LOAD CASE(S)**

- Uniform Loads (plf)
  - Vert: 1-6=-20, 6-11=-20, 11-12=-20, 18-26=-60, 16-26=-20, 15-16=-83(F=-23), 15-27=-20, 14-27=-60, 13-14=-20, 20-21=-20, 20-28=-60, 19-28=-20
- 22) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-51, 6-11=-36, 11-12=-33, 18-26=-50, 16-26=-20, 15-16=-95(F=-45), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
    - Horz: 1-6=8, 6-11=6, 11-12=10, 1-21=16, 11-13=5
- 23) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-36, 6-11=-51, 11-12=-47, 18-26=-50, 16-26=-20, 15-16=-90(F=-40), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
    - Horz: 1-6=-6, 6-11=-8, 11-12=-5, 1-21=-5, 11-13=-16
- 24) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-26, 6-11=-36, 11-12=-33, 18-26=-50, 16-26=-20, 15-16=-94(F=-44), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
    - Horz: 1-6=-16, 6-11=6, 11-12=10, 1-21=14, 11-13=5
- 25) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-36, 6-11=-26, 11-12=-23, 18-26=-50, 16-26=-20, 15-16=-88(F=-38), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
    - Horz: 1-6=-6, 6-11=16, 11-12=19, 1-21=-5, 11-13=-14
- 26) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-58, 6-11=-44, 11-12=-40, 18-26=-50, 16-26=-20, 15-16=-99(F=-49), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
    - Horz: 1-6=8, 6-11=6, 11-12=10, 1-21=16, 11-13=5
- 27) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-44, 6-11=-58, 11-12=-55, 18-26=-50, 16-26=-20, 15-16=-95(F=-45), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
    - Horz: 1-6=-6, 6-11=-8, 11-12=-5, 1-21=-5, 11-13=-16
- 28) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-34, 6-11=-44, 11-12=-40, 18-26=-50, 16-26=-20, 15-16=-98(F=-48), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
    - Horz: 1-6=-16, 6-11=6, 11-12=10, 1-21=14, 11-13=5
- 29) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-44, 6-11=-34, 11-12=-31, 18-26=-50, 16-26=-20, 15-16=-92(F=-42), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
    - Horz: 1-6=-6, 6-11=16, 11-12=19, 1-21=-5, 11-13=-14
- 30) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-60, 6-11=-20, 11-12=-20, 16-18=-20, 15-16=-66(F=-46), 13-15=-20, 19-21=-20
- 31) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-20, 6-11=-60, 11-12=-60, 16-18=-20, 15-16=-66(F=-46), 13-15=-20, 19-21=-20
- 32) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-50, 6-11=-20, 11-12=-20, 18-26=-50, 16-26=-20, 15-16=-90(F=-40), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20
- 33) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-20, 6-11=-50, 11-12=-50, 18-26=-50, 16-26=-20, 15-16=-90(F=-40), 15-27=-20, 14-27=-50, 13-14=-20, 20-21=-20, 20-28=-50, 19-28=-20

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**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 | SERENITY CLUBHOUSE       | 155444863 |
| DLO201003 | CT1_G | Common     | 8   | 1   | Job Reference (optional) |           |

TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Thu Dec 1 12:44:16 2022 Page 2  
ID:nlZwxGjxG9tKzKvTqkSuPuzFEvQ-RJBF\_IWJzAsaHVK0mm1arXaVj377wK71f\_393ByDKxz

**LOAD CASE(S)**

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-11=-50, 11-12=-50, 19-21=-20, 15-19=-60(F=-40), 13-15=-20  
Concentrated Loads (lb)  
Vert: 19=-251(F) 18=-664(F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-60, 6-11=-60, 11-12=-60, 19-21=-20, 15-19=-66(F=-46), 13-15=-20  
Concentrated Loads (lb)  
Vert: 19=-287(F) 18=-759(F)
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-50, 6-11=-50, 11-12=-50, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-90(F=-40), 16-27=-60(F=-40), 15-16=-90(F=-40), 15-28=-20, 14-28=-50, 13-14=-20  
Concentrated Loads (lb)  
Vert: 19=-251(F) 18=-664(F)
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-43, 6-11=-43, 11-12=-43, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-86(F=-36), 16-27=-56(F=-36), 15-16=-86(F=-36), 15-28=-20, 14-28=-50, 13-14=-20  
Concentrated Loads (lb)  
Vert: 19=-224(F) 18=-593(F)
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-24=-43, 6-24=-65, 6-11=-27, 11-12=-27, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-86(F=-36), 16-27=-56(F=-36), 15-16=-86(F=-36), 15-28=-20, 14-28=-50, 13-14=-20  
Concentrated Loads (lb)  
Vert: 19=-224(F) 18=-593(F)
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-27, 6-25=-63, 11-25=-43, 11-12=-43, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-86(F=-36), 16-27=-56(F=-36), 15-16=-86(F=-36), 15-28=-20, 14-28=-50, 13-14=-20  
Concentrated Loads (lb)  
Vert: 19=-224(F) 18=-593(F)
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 11-12=-20, 19-21=-40, 15-19=-74(F=-34), 13-15=-40  
Concentrated Loads (lb)  
Vert: 19=-215(F) 18=-569(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-14, 6-11=5, 11-12=1, 19-21=-12, 15-19=-16(F=-4), 13-15=-12  
Horz: 1-6=2, 6-11=17, 11-12=13, 1-21=12, 11-13=16  
Concentrated Loads (lb)  
Vert: 19=-24(F) 18=-65(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=5, 6-11=-14, 11-12=-4, 19-21=-12, 15-19=-14(F=-2), 13-15=-12  
Horz: 1-6=-17, 6-11=-2, 11-12=8, 1-21=-16, 11-13=-12  
Concentrated Loads (lb)  
Vert: 19=-11(F) 18=-28(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-31, 6-11=-12, 11-12=-7, 19-21=-20, 15-19=-55(F=-35), 13-15=-20  
Horz: 1-6=11, 6-11=8, 11-12=13, 1-21=21, 11-13=7  
Concentrated Loads (lb)  
Vert: 19=-219(F) 18=-579(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-12, 6-11=-31, 11-12=-27, 19-21=-20, 15-19=-49(F=-29), 13-15=-20  
Horz: 1-6=-8, 6-11=-11, 11-12=-7, 1-21=-7, 11-13=-21  
Concentrated Loads (lb)  
Vert: 19=-182(F) 18=-483(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=18, 6-11=5, 11-12=1, 19-21=-12, 15-19=-8(F=4), 13-15=-12  
Horz: 1-6=-30, 6-11=17, 11-12=13, 1-21=10, 11-13=15  
Concentrated Loads (lb)  
Vert: 19=22(F) 18=59(F)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=5, 6-11=18, 11-12=14, 19-21=-12, 15-19=-8(F=4), 13-15=-12  
Horz: 1-6=-17, 6-11=30, 11-12=26, 1-21=-15, 11-13=-10  
Concentrated Loads (lb)  
Vert: 19=22(F) 18=59(F)
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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818 Soundside Road  
Edenton, NC 27932

|           |       |            |     |     |                          |           |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| Job       | Truss | Truss Type | Qty | Ply | SERENITY CLUBHOUSE       | 155444863 |
| DLO201003 | CT1_G | Common     | 8   | 1   | Job Reference (optional) |           |

TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Thu Dec 1 12:44:16 2022 Page 3  
ID:nlZwxGjxG9tQzKvTqkSuPuzFEvQ-RJBF\_IWJzAsaHVK0mm1arXaVj377wK71f\_393ByDKXz

### LOAD CASE(S)

- Uniform Loads (plf)  
Vert: 1-6=9, 6-11=1, 11-12=-3, 19-21=-12, 15-19=-14(F=-2), 13-15=-12  
Horz: 1-6=-21, 6-11=13, 11-12=9, 1-21=5, 11-13=11
- Concentrated Loads (lb)  
Vert: 19=-11(F) 18=-28(F)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=1, 6-11=9, 11-12=5, 19-21=-12, 15-19=-14(F=-2), 13-15=-12  
Horz: 1-6=-13, 6-11=21, 11-12=17, 1-21=-11, 11-13=-5  
Concentrated Loads (lb)  
Vert: 19=-11(F) 18=-28(F)
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=2, 6-11=-12, 11-12=-7, 19-21=-20, 15-19=-54(F=-34), 13-15=-20  
Horz: 1-6=-22, 6-11=8, 11-12=13, 1-21=19, 11-13=6  
Concentrated Loads (lb)  
Vert: 19=-212(F) 18=-561(F)
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-12, 6-11=2, 11-12=6, 19-21=-20, 15-19=-45(F=-25), 13-15=-20  
Horz: 1-6=-8, 6-11=22, 11-12=26, 1-21=-6, 11-13=-19  
Concentrated Loads (lb)  
Vert: 19=-159(F) 18=-421(F)
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 11-12=-80, 19-21=-20, 15-19=-43(F=-23), 13-15=-20  
Concentrated Loads (lb)  
Vert: 19=-143(F) 18=-379(F)
- 19) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-24=-50, 6-24=-80, 6-11=-29, 11-12=-29, 19-21=-20, 15-19=-60(F=-40), 13-15=-20  
Concentrated Loads (lb)  
Vert: 19=-251(F) 18=-664(F)
- 20) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-6=-29, 6-25=-78, 11-25=-50, 11-12=-50, 19-21=-20, 15-19=-60(F=-40), 13-15=-20  
Concentrated Loads (lb)  
Vert: 19=-251(F) 18=-664(F)
- 21) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-6=-20, 6-11=-20, 11-12=-20, 20-21=-20, 20-26=-60, 19-26=-20, 19-27=-83(F=-23), 16-27=-43(F=-23), 15-16=-83(F=-23), 15-28=-20, 14-28=-60, 13-14=-20  
Concentrated Loads (lb)  
Vert: 19=-143(F) 18=-379(F)
- 22) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-51, 6-11=-36, 11-12=-33, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-95(F=-45), 16-27=-65(F=-45), 15-16=-95(F=-45), 15-28=-20, 14-28=-50, 13-14=-20  
Horz: 1-6=8, 6-11=6, 11-12=10, 1-21=16, 11-13=5  
Concentrated Loads (lb)  
Vert: 19=-281(F) 18=-743(F)
- 23) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-36, 6-11=-51, 11-12=-47, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-90(F=-40), 16-27=-60(F=-40), 15-16=-90(F=-40), 15-28=-20, 14-28=-50, 13-14=-20  
Horz: 1-6=-6, 6-11=-8, 11-12=-5, 1-21=-5, 11-13=-16  
Concentrated Loads (lb)  
Vert: 19=-253(F) 18=-670(F)
- 24) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-26, 6-11=-36, 11-12=-33, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-94(F=-44), 16-27=-64(F=-44), 15-16=-94(F=-44), 15-28=-20, 14-28=-50, 13-14=-20  
Horz: 1-6=-16, 6-11=6, 11-12=10, 1-21=14, 11-13=5  
Concentrated Loads (lb)  
Vert: 19=-276(F) 18=-729(F)
- 25) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-6=-36, 6-11=-26, 11-12=-23, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-88(F=-38), 16-27=-58(F=-38), 15-16=-88(F=-38), 15-28=-20, 14-28=-50, 13-14=-20  
Horz: 1-6=-6, 6-11=16, 11-12=19, 1-21=-5, 11-13=-14  
Concentrated Loads (lb)  
Vert: 19=-236(F) 18=-624(F)
- 26) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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818 Soundside Road  
Edenton, NC 27932

|           |       |            |     |     |                          |           |
|-----------|-------|------------|-----|-----|--------------------------|-----------|
| Job       | Truss | Truss Type | Qty | Ply | SERENITY CLUBHOUSE       | 155444863 |
| DLO201003 | CT1_G | Common     | 8   | 1   | Job Reference (optional) |           |

TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Thu Dec 1 12:44:16 2022 Page 4  
ID:nIzwxGjxG9tQzKvTqkSuPuzFEvQ-RJBF\_IWJzAsaHVK0mm1arXaVj377wK71f\_393ByDKXz

**LOAD CASE(S)**

- Uniform Loads (plf)
  - Vert: 1-6=-58, 6-11=-44, 11-12=-40, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-99(F=-49), 16-27=-69(F=-49), 15-16=-99(F=-49), 15-28=-20, 14-28=-50, 13-14=-20
  - Horz: 1-6=8, 6-11=6, 11-12=10, 1-21=16, 11-13=5
- Concentrated Loads (lb)
  - Vert: 19=-308(F) 18=-814(F)
- 27) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-44, 6-11=-58, 11-12=-55, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-95(F=-45), 16-27=-65(F=-45), 15-16=-95(F=-45), 15-28=-20, 14-28=-50, 13-14=-20
    - Horz: 1-6=-6, 6-11=-8, 11-12=-5, 1-21=-5, 11-13=-16
  - Concentrated Loads (lb)
    - Vert: 19=-280(F) 18=-741(F)
- 28) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-34, 6-11=-44, 11-12=-40, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-98(F=-48), 16-27=-68(F=-48), 15-16=-98(F=-48), 15-28=-20, 14-28=-50, 13-14=-20
    - Horz: 1-6=-16, 6-11=6, 11-12=10, 1-21=14, 11-13=5
  - Concentrated Loads (lb)
    - Vert: 19=-302(F) 18=-800(F)
- 29) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-6=-44, 6-11=-34, 11-12=-31, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-92(F=-42), 16-27=-62(F=-42), 15-16=-92(F=-42), 15-28=-20, 14-28=-50, 13-14=-20
    - Horz: 1-6=-6, 6-11=16, 11-12=19, 1-21=-5, 11-13=-14
  - Concentrated Loads (lb)
    - Vert: 19=-263(F) 18=-695(F)
- 30) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-60, 6-11=-20, 11-12=-20, 19-21=-20, 15-19=-66(F=-46), 13-15=-20
  - Concentrated Loads (lb)
    - Vert: 19=-287(F) 18=-759(F)
- 31) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-20, 6-11=-60, 11-12=-60, 19-21=-20, 15-19=-66(F=-46), 13-15=-20
  - Concentrated Loads (lb)
    - Vert: 19=-287(F) 18=-759(F)
- 32) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-50, 6-11=-20, 11-12=-20, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-90(F=-40), 16-27=-60(F=-40), 15-16=-90(F=-40), 15-28=-20, 14-28=-50, 13-14=-20
  - Concentrated Loads (lb)
    - Vert: 19=-251(F) 18=-664(F)
- 33) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-20, 6-11=-50, 11-12=-50, 20-21=-20, 20-26=-50, 19-26=-20, 19-27=-90(F=-40), 16-27=-60(F=-40), 15-16=-90(F=-40), 15-28=-20, 14-28=-50, 13-14=-20
  - Concentrated Loads (lb)
    - Vert: 19=-251(F) 18=-664(F)

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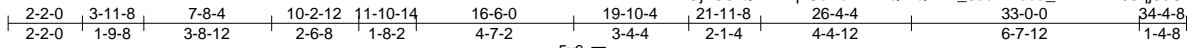
818 Soundside Road  
Edenton, NC 27932



|           |       |              |     |     |                          |           |
|-----------|-------|--------------|-----|-----|--------------------------|-----------|
| Job       | Truss | Truss Type   | Qty | Ply | SERENITY CLUBHOUSE       | 155444866 |
| DLO201003 | CT2S  | Roof Special | 7   | 1   | Job Reference (optional) |           |

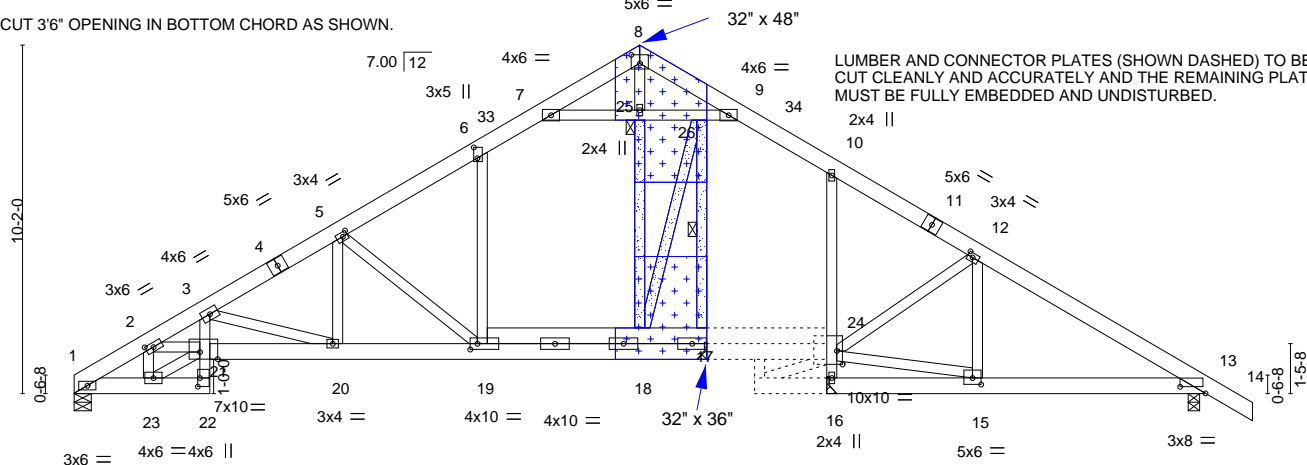
TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Thu Dec 1 13:00:13 2022 Page 1  
 ID:nlZwxGjxG9tQzKvTqkSuPuzFEvQ-vQW1r\_6cbDRoba\_xkFi?7Li89qj8eCFujNNJADyDKJO



REPAIR: CUT 3'6" OPENING IN BOTTOM CHORD AS SHOWN.

Scale = 1:67.2

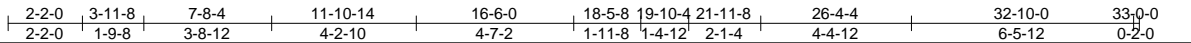


LUMBER AND CONNECTOR PLATES (SHOWN DASHED) TO BE CUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED.

INSTALL 2 X 4 SP NO.2 CUT TO FIT TIGHT.



ATTACH 3/4" PLYWOOD OR OSB GUSSET (23/32" RATED SHEATHING 48/24 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.



|                       |   |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [2:0-2-12,0-1-8], [5:0-1-12,0-1-8], [6:0-3-12,0-1-4], [8:0-3-0,0-3-0], [12:0-1-12,0-1-8], [13:0-8-14,0-2-5], [15:0-3-0,0-2-4], [19:0-2-8,0-2-0], [21:0-5-8,0-2-8], [22:0-3-0,0-0-12], [24:0-2-0,0-4-12] |
|-----------------------|---|

| 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 0.30   | Vert(LL) -0.09 | 19-20    | >999   | 240 | MT20           | 244/190 |
| Snow (Pf) 15.0   | Lumber DOL 1.15      |       | BC 0.51   | Vert(CT) -0.19 | 19-20    | >999   | 180 |                |         |
| TCDL 10.0        | Rep Stress Incr NO   |       | WB 0.67   | Horz(CT) 0.04  | 13       | n/a    | n/a |                |         |
| BCLL 0.0         | Code IBC2015/TPI2014 |       | Matrix-MR |                |          |        |     | Weight: 277 lb | FT = 6% |
| BCDL 10.0        |                      |       |           |                |          |        |     |                |         |

| LUMBER-  | BRACING-  |
|--|---|
| TOP CHORD 2x6 SP No.1D *Except*<br>1-4,11-14: 2x6 SP No.2                | TOP CHORD Structural wood sheathing directly applied or 4-11-14 oc purlins. |
| BOT CHORD 2x6 SP No.2 *Except*<br>3-22: 2x4 SP No.2, 17-21: 2x6 SP No.1D | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.              |
| WEBS 2x4 SP No.3 *Except*<br>: 2x4 SP No.2                               | WEBS 1 Row at midpt 17-26   |
|  | JOINTS 1 Brace at Jt(s): 25   |

| REACTIONS.  |
|---|
| All bearings Mechanical except (jt=length) 1=0-6-0, 13=0-4-0.   |
| (lb) - Max Horz 1=-197(LC 8)  |
| Max Uplift All uplift 100 lb or less at joint(s) 1, 17 except 16=-132(LC 13), 13=-121(LC 13)                      |
| Max Grav All reactions 250 lb or less at joint(s) except 1=759(LC 2), 17=1235(LC 26), 16=498(LC 31), 13=523(LC 2) |

| FORCES.   | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  |
|-----------|---|
| TOP CHORD | 1-2=-1220/105, 2-3=-2100/269, 3-4=-1271/156, 4-5=-1177/171, 5-6=-621/219, 6-33=-353/238, 7-33=-340/246, 7-8=-18/654, 8-9=0/630, 9-34=-73/284, 10-34=-97/277, 12-13=-482/194   |
| BOT CHORD | 1-23=-173/1060, 22-23=-46/257, 3-21=-55/586, 20-21=-285/1797, 19-20=-159/1122, 18-19=-39/458, 13-15=-68/357   |
| WEBS      | 16-24=-497/158, 12-24=-452/90, 6-19=0/345, 7-25=-943/189, 25-26=-943/189, 9-26=-522/154, 8-25=-654/5, 2-23=-640/123, 2-21=-120/772, 21-23=-155/975, 5-19=-895/162, 5-20=-21/503, 3-20=-711/132, 17-26=-1576/100, 18-26=-134/1665, 18-25=-712/30 |

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; 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 15.0 psf on overhangs non-concurrent with other live loads.
  - N/A
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17 except (jt=lb) 16=132, 13=121.
  - N/A



December 6, 2022

0011181003 page 2  
 This truss was designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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

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818 Soundside Road  
 Edenton, NC 27932

|           |       |              |     |     |                          |           |
|-----------|-------|--------------|-----|-----|--------------------------|-----------|
| Job       | Truss | Truss Type   | Qty | Ply | SERENITY CLUBHOUSE       | 155444866 |
| DLO201003 | CT2S  | Roof Special | 7   | 1   | Job Reference (optional) |           |

TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Thu Dec 1 13:00:14 2022 Page 2  
ID:nIZwxGjxG9tQzKvTqkSuPuzFEVQ-Nd4P2K6EMWZfDKz8uzDEgYFJVe3NNV2y17sifyDKJ?

**NOTES-**

12) 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)**

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-50, 8-14=-50, 22-27=-20, 19-21=-20, 17-19=-60(F=-40), 16-30=-20
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-60, 8-14=-60, 22-27=-20, 19-21=-20, 17-19=-66(F=-46), 16-30=-20
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-50, 8-14=-50, 22-27=-20, 19-21=-20, 17-19=-60(F=-40), 16-30=-20
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-43, 8-14=-42, 22-27=-20, 19-21=-20, 17-19=-56(F=-36), 16-30=-20
- 5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-33=-43, 8-33=-65, 8-14=-27, 22-27=-20, 19-21=-20, 17-19=-56(F=-36), 16-30=-20
- 6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-27, 8-34=-64, 14-34=-42, 22-27=-20, 19-21=-20, 17-19=-56(F=-36), 16-30=-20
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-8=-20, 8-14=-20, 22-27=-40, 19-21=-40, 17-19=-74(F=-34), 16-30=-40
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=-14, 8-13=5, 13-14=1, 22-27=-12, 19-21=-12, 17-19=-16(F=-4), 16-30=-12  
Horz: 1-8=2, 8-13=17, 13-14=13
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=5, 8-13=-14, 13-14=-4, 22-27=-12, 19-21=-12, 17-19=-16(F=-4), 16-30=-12  
Horz: 1-8=-17, 8-13=2, 13-14=8
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=-31, 8-13=-12, 13-14=-7, 22-27=-20, 19-21=-20, 17-19=-49(F=-29), 16-30=-20  
Horz: 1-8=11, 8-13=8, 13-14=13
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=-12, 8-13=-31, 13-14=-27, 22-27=-20, 19-21=-20, 17-19=-49(F=-29), 16-30=-20  
Horz: 1-8=-8, 8-13=-11, 13-14=-7
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=18, 8-13=5, 13-14=1, 22-27=-12, 19-21=-12, 17-19=-8(F=4), 16-30=-12  
Horz: 1-8=-30, 8-13=17, 13-14=13
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=5, 8-13=18, 13-14=14, 22-27=-12, 19-21=-12, 17-19=-8(F=4), 16-30=-12  
Horz: 1-8=-17, 8-13=30, 13-14=26
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=9, 8-13=1, 13-14=-3, 22-27=-12, 19-21=-12, 17-19=-14(F=-2), 16-30=-12  
Horz: 1-8=-21, 8-13=13, 13-14=9
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=1, 8-13=9, 13-14=5, 22-27=-12, 19-21=-12, 17-19=-14(F=-2), 16-30=-12  
Horz: 1-8=-13, 8-13=21, 13-14=17
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=2, 8-13=-12, 13-14=-7, 22-27=-20, 19-21=-20, 17-19=-45(F=-25), 16-30=-20  
Horz: 1-8=-22, 8-13=8, 13-14=13
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=-12, 8-13=2, 13-14=6, 22-27=-20, 19-21=-20, 17-19=-45(F=-25), 16-30=-20  
Horz: 1-8=-8, 8-13=22, 13-14=26
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-20, 8-13=-20, 13-14=-80, 22-27=-20, 19-21=-20, 17-19=-43(F=-23), 16-30=-20
- 19) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-33=-50, 8-33=-80, 8-14=-29, 22-27=-20, 19-21=-20, 17-19=-60(F=-40), 16-30=-20
- 20) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-29, 8-34=-78, 14-34=-50, 22-27=-20, 19-21=-20, 17-19=-60(F=-40), 16-30=-20
- 21) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90  
Uniform Loads (plf)  
Vert: 1-8=-20, 8-14=-20, 22-27=-20, 19-21=-20, 17-19=-43(F=-23), 16-30=-20
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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**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 | SERENITY CLUBHOUSE       | 155444866 |
| DLO201003 | CT2S  | Roof Special | 7   | 1   | Job Reference (optional) |           |

TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Thu Dec 1 13:00:14 2022 Page 3  
 ID:nIZwxGjxG9tQzKvTqkSuPuzFEvQ-Nd4P2K6EMWZfDKZ8uzDEgYfJvE3NNFV2y17sifyDKJ?

**LOAD CASE(S)**

- Uniform Loads (plf)
  - Vert: 1-8=-51, 8-13=-36, 13-14=-33, 22-27=-20, 19-21=-20, 17-19=-60(F=-40), 16-30=-20
  - Horz: 1-8=8, 8-13=6, 13-14=10
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-36, 8-13=-51, 13-14=-47, 22-27=-20, 19-21=-20, 17-19=-60(F=-40), 16-30=-20
    - Horz: 1-8=-6, 8-13=-8, 13-14=-5
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-26, 8-13=-36, 13-14=-33, 22-27=-20, 19-21=-20, 17-19=-58(F=-38), 16-30=-20
    - Horz: 1-8=-16, 8-13=6, 13-14=10
- 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-36, 8-13=-26, 13-14=-23, 22-27=-20, 19-21=-20, 17-19=-58(F=-38), 16-30=-20
    - Horz: 1-8=-6, 8-13=16, 13-14=19
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-58, 8-13=-44, 13-14=-40, 22-27=-20, 19-21=-20, 17-19=-65(F=-45), 16-30=-20
    - Horz: 1-8=8, 8-13=6, 13-14=10
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-44, 8-13=-58, 13-14=-55, 22-27=-20, 19-21=-20, 17-19=-65(F=-45), 16-30=-20
    - Horz: 1-8=-6, 8-13=-8, 13-14=-5
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-34, 8-13=-44, 13-14=-40, 22-27=-20, 19-21=-20, 17-19=-62(F=-42), 16-30=-20
    - Horz: 1-8=-16, 8-13=6, 13-14=10
- 29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-44, 8-13=-34, 13-14=-31, 22-27=-20, 19-21=-20, 17-19=-62(F=-42), 16-30=-20
    - Horz: 1-8=-6, 8-13=16, 13-14=19
- 30) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-60, 8-14=-20, 22-27=-20, 19-21=-20, 17-19=-66(F=-46), 16-30=-20
- 31) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-20, 8-14=-60, 22-27=-20, 19-21=-20, 17-19=-66(F=-46), 16-30=-20
- 32) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-50, 8-14=-20, 22-27=-20, 19-21=-20, 17-19=-60(F=-40), 16-30=-20
- 33) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-20, 8-14=-50, 22-27=-20, 19-21=-20, 17-19=-60(F=-40), 16-30=-20

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818 Soundside Road  
 Edenton, NC 27932



|           |        |              |     |     |                          |           |
|-----------|--------|--------------|-----|-----|--------------------------|-----------|
| Job       | Truss  | Truss Type   | Qty | Ply | SERENITY CLUBHOUSE       | 155444866 |
| DLO201003 | CT2S_G | Roof Special | 7   | 1   | Job Reference (optional) |           |

TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Mon Dec 5 12:14:17 2022 Page 2  
ID:nIZwxGjxG9tQzKvTqkSuPuzFEvQ-Z\_UCHFCDm29EwLfpYdYBNCGhhKjYajgXa8D5PSyC0c4

**NOTES-**

- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 1 and 110 lb uplift at joint 13.
- 10) N/A
- 11) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 285 lb down and 22 lb up at 21-11-8, and 706 lb down and 55 lb up at 18-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) 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)**

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-50, 8-14=-50, 25-29=-20, 22-24=-20, 19-22=-60(F=-40), 17-32=-20  
Concentrated Loads (lb)  
Vert: 18=-249(F) 20=-618(F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-60, 8-14=-60, 25-29=-20, 22-24=-20, 19-22=-66(F=-46), 17-32=-20  
Concentrated Loads (lb)  
Vert: 18=-285(F) 20=-706(F)
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-50, 8-14=-50, 25-29=-20, 22-24=-20, 19-22=-60(F=-40), 17-32=-20  
Concentrated Loads (lb)  
Vert: 18=-249(F) 20=-618(F)
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-43, 8-14=-42, 25-29=-20, 22-24=-20, 19-22=-56(F=-36), 17-32=-20  
Concentrated Loads (lb)  
Vert: 18=-222(F) 20=-551(F)
- 5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-35=-43, 8-35=-65, 8-14=-27, 25-29=-20, 22-24=-20, 19-22=-56(F=-36), 17-32=-20  
Concentrated Loads (lb)  
Vert: 18=-222(F) 20=-551(F)
- 6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-8=-27, 8-36=-64, 14-36=-42, 25-29=-20, 22-24=-20, 19-22=-56(F=-36), 17-32=-20  
Concentrated Loads (lb)  
Vert: 18=-222(F) 20=-551(F)
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-8=-20, 8-14=-20, 25-29=-40, 22-24=-40, 19-22=-74(F=-34), 17-32=-40  
Concentrated Loads (lb)  
Vert: 18=-213(F) 20=-529(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=-14, 8-13=5, 13-14=1, 25-29=-12, 22-24=-12, 19-22=-16(F=-4), 17-32=-12  
Horz: 1-8=2, 8-13=17, 13-14=13  
Concentrated Loads (lb)  
Vert: 18=-24(F) 20=-60(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=5, 8-13=-14, 13-14=-4, 25-29=-12, 22-24=-12, 19-22=-16(F=-4), 17-32=-12  
Horz: 1-8=-17, 8-13=-2, 13-14=8  
Concentrated Loads (lb)  
Vert: 18=-24(F) 20=-60(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=-31, 8-13=-12, 13-14=-7, 25-29=-20, 22-24=-20, 19-22=-49(F=-29), 17-32=-20  
Horz: 1-8=11, 8-13=8, 13-14=13  
Concentrated Loads (lb)  
Vert: 18=-181(F) 20=-449(F)
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=-12, 8-13=-31, 13-14=-27, 25-29=-20, 22-24=-20, 19-22=-49(F=-29), 17-32=-20  
Horz: 1-8=-8, 8-13=-11, 13-14=-7  
Concentrated Loads (lb)  
Vert: 18=-181(F) 20=-449(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33  
Uniform Loads (plf)  
Vert: 1-8=18, 8-13=5, 13-14=1, 25-29=-12, 22-24=-12, 19-22=-8(F=4), 17-32=-12  
Horz: 1-8=-30, 8-13=17, 13-14=13  
Concentrated Loads (lb)  
Vert: 18=22(F) 20=55(F)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

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818 Soundside Road  
Edenton, NC 27932

|           |        |              |     |     |                          |           |
|-----------|--------|--------------|-----|-----|--------------------------|-----------|
| Job       | Truss  | Truss Type   | Qty | Ply | SERENITY CLUBHOUSE       | 155444866 |
| DLO201003 | CT2S_G | Roof Special | 7   | 1   | Job Reference (optional) |           |

TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Mon Dec 5 12:14:17 2022 Page 3  
 ID:nIzwxGjxG9tQzKvTqkSuPuzFevQ-Z\_UCHFcdM29EwLfpYdYBNCGhhKjYajgXa8D5PSyC0c4

**LOAD CASE(S)**

- Uniform Loads (plf)
  - Vert: 1-8=5, 8-13=18, 13-14=14, 25-29=-12, 22-24=-12, 19-22=-8(F=4), 17-32=-12
  - Horz: 1-8=-17, 8-13=30, 13-14=26
- Concentrated Loads (lb)
  - Vert: 18=22(F) 20=55(F)
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=9, 8-13=1, 13-14=-3, 25-29=-12, 22-24=-12, 19-22=-14(F=-2), 17-32=-12
    - Horz: 1-8=-21, 8-13=13, 13-14=9
  - Concentrated Loads (lb)
    - Vert: 18=-10(F) 20=-26(F)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=1, 8-13=9, 13-14=5, 25-29=-12, 22-24=-12, 19-22=-14(F=-2), 17-32=-12
    - Horz: 1-8=-13, 8-13=21, 13-14=17
  - Concentrated Loads (lb)
    - Vert: 18=-10(F) 20=-26(F)
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=2, 8-13=-12, 13-14=-7, 25-29=-20, 22-24=-20, 19-22=-45(F=-25), 17-32=-20
    - Horz: 1-8=-22, 8-13=8, 13-14=13
  - Concentrated Loads (lb)
    - Vert: 18=-158(F) 20=-391(F)
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-12, 8-13=2, 13-14=6, 25-29=-20, 22-24=-20, 19-22=-45(F=-25), 17-32=-20
    - Horz: 1-8=-8, 8-13=22, 13-14=26
  - Concentrated Loads (lb)
    - Vert: 18=-158(F) 20=-391(F)
- 18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-20, 8-13=-20, 13-14=-80, 25-29=-20, 22-24=-20, 19-22=-43(F=-23), 17-32=-20
  - Concentrated Loads (lb)
    - Vert: 18=-142(F) 20=-353(F)
- 19) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-35=-50, 8-35=-80, 8-14=-29, 25-29=-20, 22-24=-20, 19-22=-60(F=-40), 17-32=-20
  - Concentrated Loads (lb)
    - Vert: 18=-249(F) 20=-618(F)
- 20) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-29, 8-36=-78, 14-36=-50, 25-29=-20, 22-24=-20, 19-22=-60(F=-40), 17-32=-20
  - Concentrated Loads (lb)
    - Vert: 18=-249(F) 20=-618(F)
- 21) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
  - Uniform Loads (plf)
    - Vert: 1-8=-20, 8-14=-20, 25-29=-20, 22-24=-20, 19-22=-43(F=-23), 17-32=-20
  - Concentrated Loads (lb)
    - Vert: 18=-142(F) 20=-353(F)
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-51, 8-13=-36, 13-14=-33, 25-29=-20, 22-24=-20, 19-22=-60(F=-40), 17-32=-20
    - Horz: 1-8=8, 8-13=6, 13-14=10
  - Concentrated Loads (lb)
    - Vert: 18=-251(F) 20=-623(F)
- 23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-36, 8-13=-51, 13-14=-47, 25-29=-20, 22-24=-20, 19-22=-60(F=-40), 17-32=-20
    - Horz: 1-8=-6, 8-13=-8, 13-14=-5
  - Concentrated Loads (lb)
    - Vert: 18=-251(F) 20=-623(F)
- 24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-26, 8-13=-36, 13-14=-33, 25-29=-20, 22-24=-20, 19-22=-58(F=-38), 17-32=-20
    - Horz: 1-8=-16, 8-13=6, 13-14=10
  - Concentrated Loads (lb)
    - Vert: 18=-234(F) 20=-580(F)
- 25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-36, 8-13=-26, 13-14=-23, 25-29=-20, 22-24=-20, 19-22=-58(F=-38), 17-32=-20
    - Horz: 1-8=-6, 8-13=16, 13-14=19
  - Concentrated Loads (lb)
    - Vert: 18=-234(F) 20=-580(F)
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 4

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|           |        |              |     |     |                          |           |
|-----------|--------|--------------|-----|-----|--------------------------|-----------|
| Job       | Truss  | Truss Type   | Qty | Ply | SERENITY CLUBHOUSE       | 155444866 |
| DLO201003 | CT2S_G | Roof Special | 7   | 1   | Job Reference (optional) |           |

TRUSS BUILDERS, Truss Builders

8.530 s May 26 2022 MiTek Industries, Inc. Mon Dec 5 12:14:17 2022 Page 4  
 ID:nIZwxGjxG9tQzKvTqkSuPuzFEvQ-Z\_UCHFCDm29EwLfpYdYBNCGhhKjYajgXa8D5PSyC0c4

**LOAD CASE(S)**

- Uniform Loads (plf)
  - Vert: 1-8=-58, 8-13=-44, 13-14=-40, 25-29=-20, 22-24=-20, 19-22=-65(F=-45), 17-32=-20
  - Horz: 1-8=8, 8-13=6, 13-14=10
- Concentrated Loads (lb)
  - Vert: 18=-278(F) 20=-690(F)
- 27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-44, 8-13=-58, 13-14=-55, 25-29=-20, 22-24=-20, 19-22=-65(F=-45), 17-32=-20
    - Horz: 1-8=-6, 8-13=-8, 13-14=-5
  - Concentrated Loads (lb)
    - Vert: 18=-278(F) 20=-690(F)
- 28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-34, 8-13=-44, 13-14=-40, 25-29=-20, 22-24=-20, 19-22=-62(F=-42), 17-32=-20
    - Horz: 1-8=-16, 8-13=6, 13-14=10
  - Concentrated Loads (lb)
    - Vert: 18=-261(F) 20=-646(F)
- 29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
  - Uniform Loads (plf)
    - Vert: 1-8=-44, 8-13=-34, 13-14=-31, 25-29=-20, 22-24=-20, 19-22=-62(F=-42), 17-32=-20
    - Horz: 1-8=-6, 8-13=16, 13-14=19
  - Concentrated Loads (lb)
    - Vert: 18=-261(F) 20=-646(F)
- 30) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-60, 8-14=-20, 25-29=-20, 22-24=-20, 19-22=-66(F=-46), 17-32=-20
  - Concentrated Loads (lb)
    - Vert: 18=-285(F) 20=-706(F)
- 31) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-20, 8-14=-60, 25-29=-20, 22-24=-20, 19-22=-66(F=-46), 17-32=-20
  - Concentrated Loads (lb)
    - Vert: 18=-285(F) 20=-706(F)
- 32) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-50, 8-14=-20, 25-29=-20, 22-24=-20, 19-22=-60(F=-40), 17-32=-20
  - Concentrated Loads (lb)
    - Vert: 18=-249(F) 20=-618(F)
- 33) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-8=-20, 8-14=-50, 25-29=-20, 22-24=-20, 19-22=-60(F=-40), 17-32=-20
  - Concentrated Loads (lb)
    - Vert: 18=-249(F) 20=-618(F)

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# 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/TFP 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/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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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/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 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. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.