DE DANSCO ENGINEERING, PA

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The truss drawing(s) attached have been prepared by Dansco Engineering, PA under my direct supervision and control based on the parameters provided by Simpson Strong-Tie Co., Inc. We have reviewed the requirements of the 2018 North Carolina Building Code/Residential Code and hereby certify that the attached trusses are in compliance with letter and intent of said code.

Job: Q0498

1 truss design(s)

72504-W1



02/19/2020

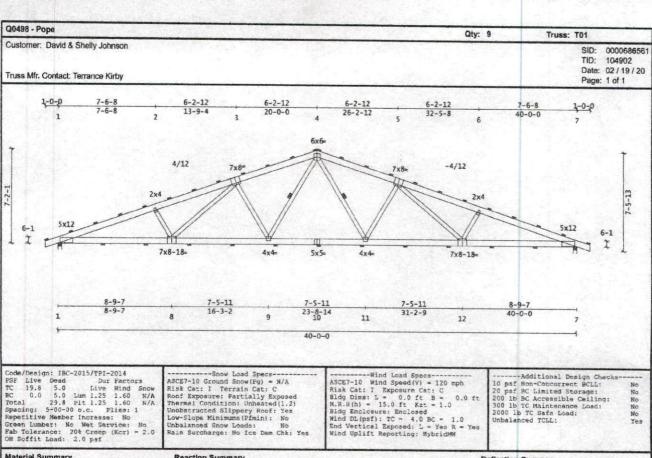
Samuel A. Greenberg, P.E. N.C. Reg. #16977 License Number C-3462

Note: Gable end frames with stud lengths exceeding 4' require permanent bracing. On structural gables, where studs may be made from two or more boards as they cross diagonals, the 4' length is the distance from the top chord to bottom chord.

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1-2014 Chapter 2.

Warning !—Verify design parameters and read notes before use.

These designs are based only upon parameters shown, and are for individual building components to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer — not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



| Materia | al Sumi | mary | | |
|---------|---------|------|--------------|--------|
| TC | 2x6 | SP | (ALSC6-2013) | #1 |
| BC | 2×6 | SP | (ALSC6-2013) | #1 |
| Webs | 2x4 | SP | (ALSC6-2013) | #3/Stu |

Member Forces Summary

| | Mem | Ten | Comp | .CSI. |
|----------|-------|------|------|-------|
| TC | OH- 1 | 47 | 0 | 0.06 |
| | 1- 2 | 4804 | 7504 | 0.92 |
| 10 | 2- 3 | 4729 | 7133 | 0.73 |
| | 3- 4 | 3884 | 5557 | 0.67 |
| | 4- 5 | 3884 | 5557 | 0.67 |
| 100 | 5- 6 | 4729 | 7133 | 0.73 |
| | 6- 7 | 4804 | 7504 | 0.92 |
| 100 | 7-OH | 47 | 0 | 0.06 |
| BC | 1- 8 | 7009 | 4290 | 0.98 |
| 100 | 7-12 | 7009 | 4282 | 0.98 |
| 165 | 8- 9 | 5788 | 3480 | 0.78 |
| The same | 9-10 | 4353 | 2451 | 0.57 |
| 100 | 10-11 | 4353 | 2451 | 0.57 |
| 188 | 11-12 | 5788 | 3505 | 0.78 |
| Web | 2- 8 | 648 | 757 | 0.19 |
| | 3- 8 | 1253 | 774 | 0.68 |
| | 3- 9 | 1074 | 1343 | 0.70 |
| 200 | 4- 9 | 1579 | 1058 | 0.60 |
| | 4-11 | 1579 | 1058 | 0.60 |
| | 5-11 | 1074 | 1343 | 0.70 |
| | 5-12 | 1253 | 774 | 0.68 |
| 130 | 6-12 | 648 | 757 | 0.19 |
| | | | | |

Reaction Summary

| | | -React: | ion Sur | nmary (Lb | 3) | | | | | |
|------|-----------|---------|---------|-----------|---------|--------|-------|-----|----|----------|
| Jnt | X-Loc- | React | -Up | Width- | -Regd | -Mat | PSI | | | |
| 1 | 01-12 | 3113 | 1056 | 03-08 | 04-07** | SPF | 470 | | | |
| 7 | 39-10-04 | 3114 | 1056 | 03-08 | 04-07** | 3PF | 470 | | | |
| Max | Horiz - | -262 | / +26 | 52 at Jo | int 1 | | | | | |
| (**) | indicates | Reqd 1 | Width : | actual | Width; | enhand | ement | may | be | required |

See bearing block detail TD-BRG-0001A. **Loads Summary**

This truss has been designed for the effects of an unbalanced top chord live load occurring at (20-00-00) using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for loading combinations and additional details. Dead Loads may be slope adjusted: > 12.0/12

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees

Plates located at TC pitch breaks meet the prescriptive minimum size
requirement to transfer unblocked diaphragm loads across those joints.

Designed with hybrid plate values. See TD-SUB-0001 for info.

Continuous Lateral Restraint (CLR) rows require diagonal bracing per
D-WEBCLREBRACE. Alternatively, see D-WEBCREINFORCE.

Roof live load has been reduced in accordance Section 1607 of the IBC.

Reduced live load has been computed based on an Unreduced live load of
20 psf.



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COA License Number 3449
Date: 02/19/2020
DE Job# 72504-W1

Deflection Summary

| Truss | Span | Limit | Actual(in) | Location |
|-------|------|--------|---------------|----------|
| Vert | LL | L/240 | 1/931 (-0.51) | |
| Vert | DL | L/120 | L/999 (-0.27) | 9-11 |
| Vert | CR | L/180 | L/605 (-0.78) | 9-11 |
| Horz | LL | 0.75in | (0.15) | est 7 |
| Horz | CR | 1,25in | (0.23) | 8Jt 7 |
| Ohng | CR | 2L/90 | L/999(0.00) | |
| Ohng | CR | 2L/90 | L/999(0.00) | 7- 7 |
| | | | | |

Vert CR and Horz CR are the vertical and horizontal deflections due to live load plus the creep component of deflection due to dead load, computed as Defl LL + (Kcr - 1) x Defl_DL in accordance with ANSI/TPI 1.

Plate offsets (X, Y): (None unless indicated below) Jnt3(-00-10,01-14), Jnt5(00-10,01-14), Jnt8(0,-02-00), Jnt12(0,-02-00)

NOTICE A copy of this design shall be furnished to the erection contractor. The design of this individual truss is based on design criteria and requirements supplied by the Truss Manufecturer and reflies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the "important information Aic General" Notes" page for additional information. Air connector plates start be manufactured by Simpson Strong-Tie Company, Inc. in accordance with ESR-2762. All connector plates are 20 gauge, unless the specified plate size is followed by a "-18" which indicates an 18 gauge plate, or "S# 18", which indicates a high tension 18 gauge plate



Component Solutions Truss Studio V 2019.3.0.218 Helpdesk: 1-866-252-8606 CSHelp@strongtie.com