

**Trenco** 818 Soundside Rd Edenton, NC 27932

Re: J1023-5799 Lot 56 Williams Farms

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

Pages or sheets covered by this seal: I62951168 thru I62951171

My license renewal date for the state of North Carolina is December 31, 2024.

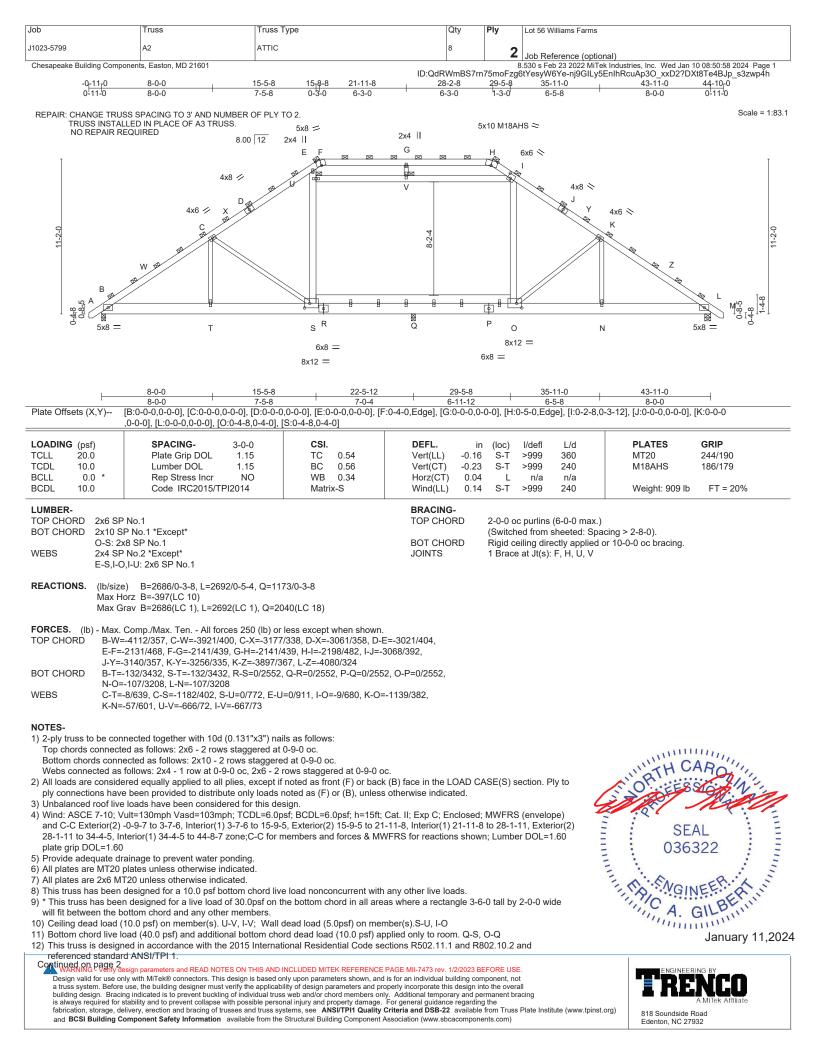
North Carolina COA: C-0844



January 11,2024

## 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	Lot 56 Williams Farms
J1023-5799	A2	ATTIC	8	2	Job Reference (optional)

Chesapeake Building Components, Easton, MD 21601

8.530 s Feb 23 2022 MiTek Industries, Inc. Wed Jan 10 08:50:58 2024 Page 2 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-nj9GILy5EnIhRcuAp3O\_xxD2?DXt8Te4BJp\_s3zwp4h

## NOTES-

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 14) Attic room checked for L/360 deflection.

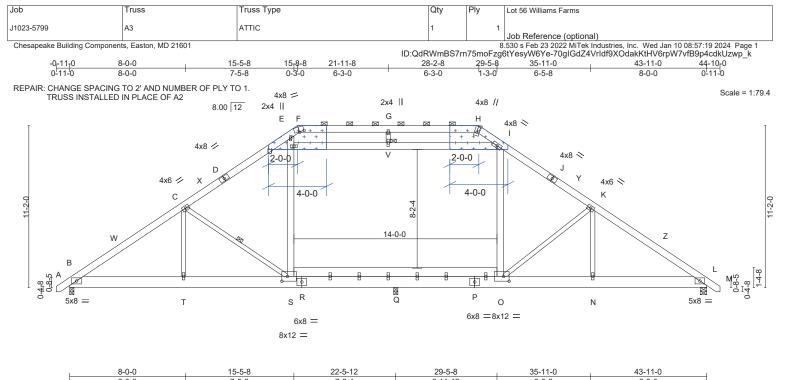
LOAD CASE(S) Standard



January 11,2024

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/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schetu before the Structure Building former the Association (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

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	8-0-0 7-5-8	7-0-4	6-11-12		6-5-8	8-0-0			
Plate Offsets (X,Y) [F:0-4-0,0-0-6], [H:0-5-2,Edge], [O:0-4-8,0-4-0], [S:0-4-8,0-4-0]									
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.73 BC 0.74 WB 0.83 Matrix-S	DEFL. in Vert(LL) -0.2 <sup>-</sup> Vert(CT) -0.3 <sup>-</sup> Horz(CT) 0.06 Wind(LL) 0.18	1 S-T >86 5 L n/	9 360 4 240 a n/a	PLATES MT20 Weight: 455 lb	<b>GRIP</b> 244/190 FT = 20%		
BOT CHORD 2x10 O-S: WEBS 2x4 S	P No.1 SP No.1 *Except* 2x8 SP No.1 SP No.2 *Except* -O,I-U: 2x6 SP No.1		BRACING- TOP CHORD BOT CHORD WEBS JOINTS	2-0-0 oc purl	ins (4-10-1 max. directly applied lpt	rectly applied or 4-6-10 ): F-H. or 10-0-0 oc bracing. C-S	0 oc purlins, except		
REACTIONS. (Ib/size) B=1791/0-3-8, L=1795/0-5-4, Q=782/0-3-8 Max Horz B=-265(LC 10) Max Grav B=1791(LC 1), L=1795(LC 1), Q=1360(LC 18) Max Grav B=1791(LC 1), L=1795(LC 1), Q=1360(LC 18)									
TOP CHORD B-W E-F	<ul> <li>Comp./Max. Ten All forces 250 (lb) of /=-2741/238, C-W=-2614/267, C-X=-211{</li> <li>=-1420/312, F-G=-1427/292, G-H=-1427/</li> <li>=-2093/238, K-Y=-2171/223, K-Z=-2598/2</li> </ul>	3/225, D-X=-2041/239, D- 292, H-I=-1465/321, I-J=-	E=-2014/269,						
BOT CHORD B-T									
WEBS C-T	=-5/426, C-S=-788/268, S-U=0/514, E-U=0/607, I-O=-6/454, K-O=-759/255, =-38/401, U-V=-444/48, I-V=-445/48								
<ul> <li>2) Wind: ASCE 7-10; and C-C Exterior(2 28-1-11 to 34-4-5, plate grip DOL=1.6</li> <li>3) Provide adequate 6</li> <li>4) All plates are 2x6 M</li> </ul>	ve loads have been considered for this de Vult=130mph Vasd=103mph; TCDL=6.0 ) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9 Interior(1) 34-4-5 to 44-8-7 zone;C-C for 0 drainage to prevent water ponding. MT20 unless otherwise indicated.	osf, BCDL=6.0psf; h=15ft; 5, Exterior(2) 15-9-5 to 2 members and forces & M\	1-11-8, Interior(1) 21-11- WFRS for reactions show	8 to 28-1-11, E	elope) xterior(2) L=1.60	OPTES	AROLIN		

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (10.0 psf) on member(s). U-V, I-V; Wall dead load (5.0psf) on member(s).S-U, I-O
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. Q-S, O-Q
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 11) Attic room checked for L/360 deflection.

## LOAD CASE(S) Standard

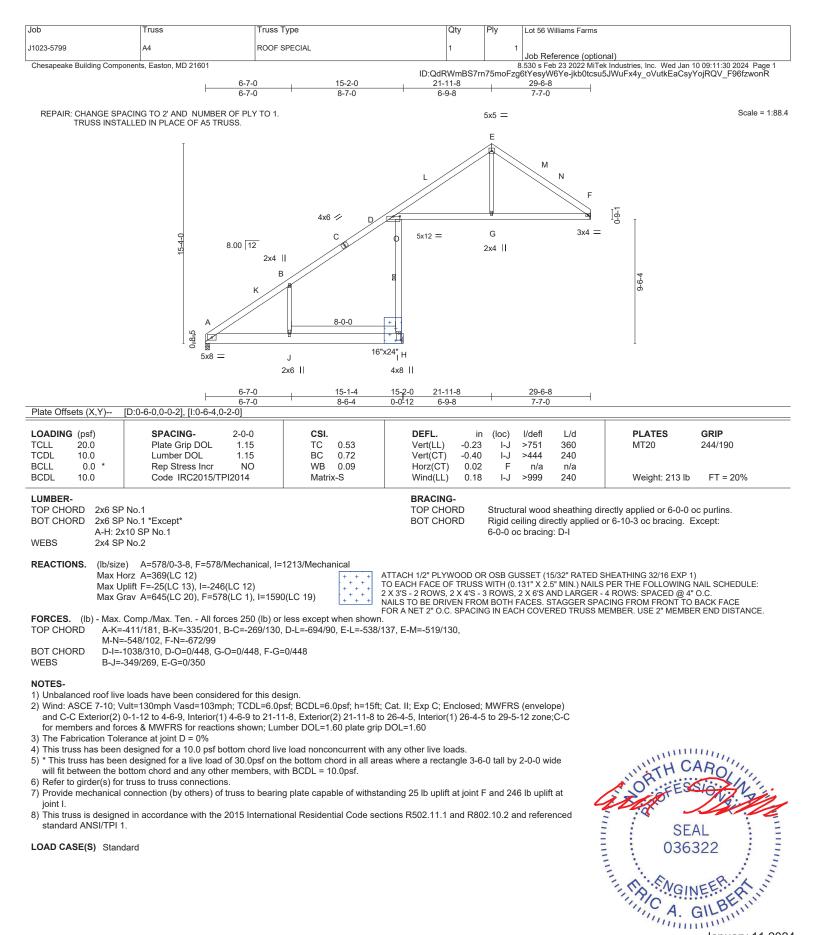
1. Community VIIIIIIIIIIIIIIIIIIIIII Q SEAL 036322 (PIC Unin and GI

## January 11,2024



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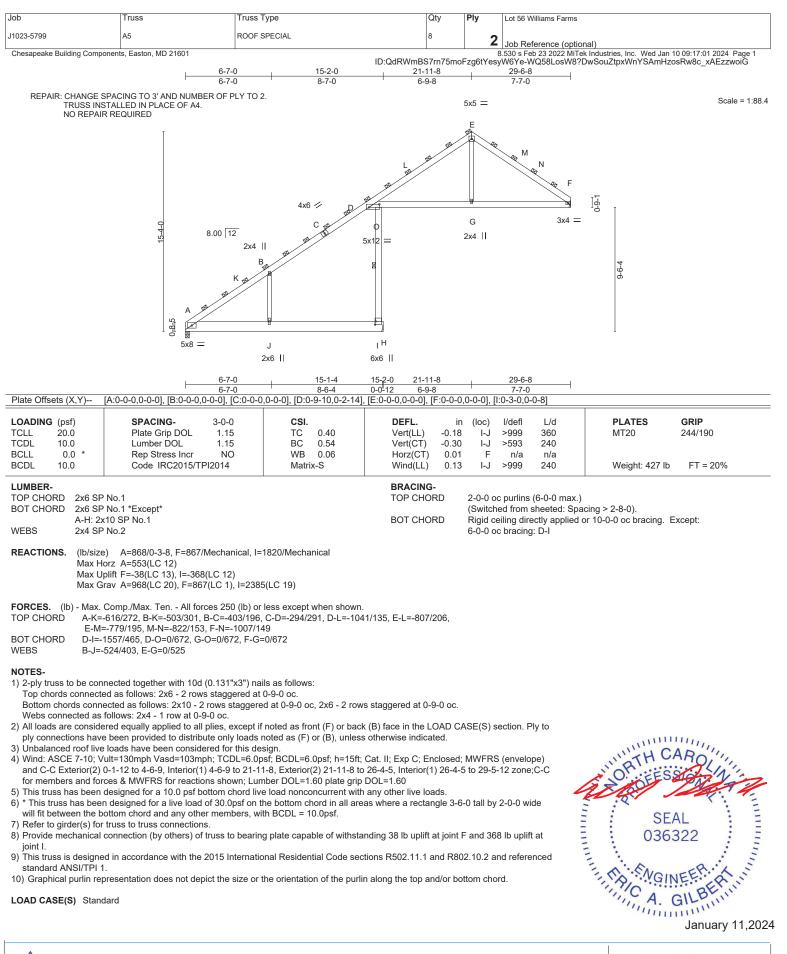
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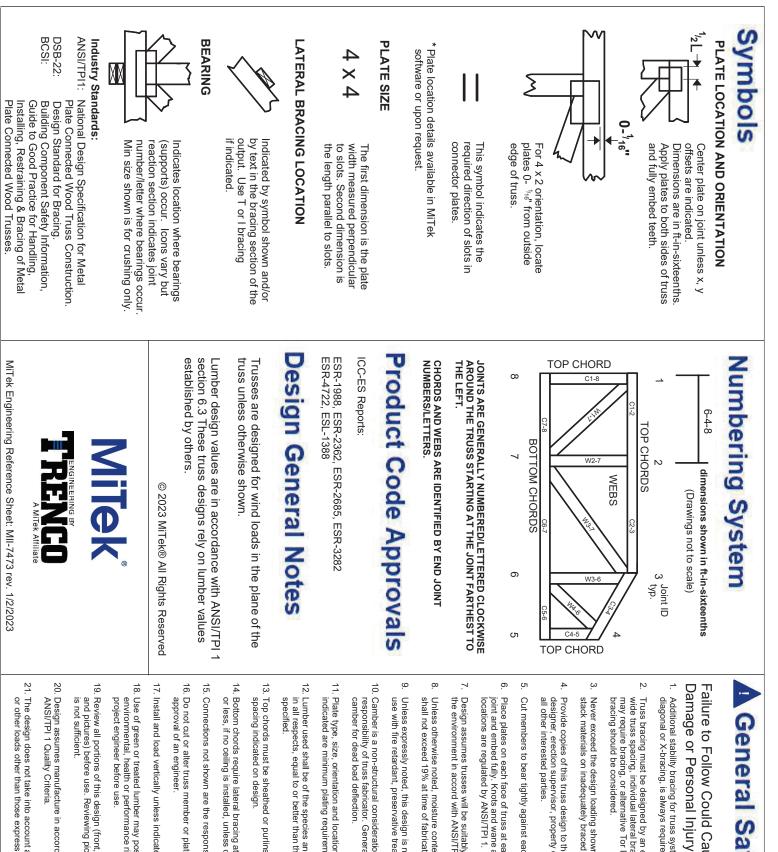


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General Safety Notes

Failure to Follow Could Cause Property

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