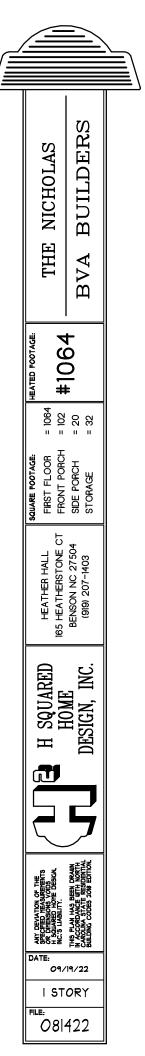


ROOF PLAN SCALE 1/4" = 1'-0"



### STRUCTURAL NOTES

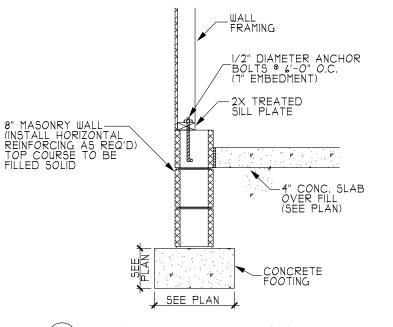
I) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER OR DESIGNER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONVECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER OR DESIGNER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT. ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.

2)	DESIGN LOADS (R301.4)	LIVE LOAD	DEAD LOAD	DEFLECTION
		(PSF)	(PSF)	(LL)
	ROOMS OTHER THAN SLEEPING RO	oms 40	10	L/360
	SLEEPING ROOMS	30	10	L/360
	ATTIC WITH PERMANENT STAIR	<del>4</del> 0	10	L/360
	ATTIC WITH OUT PERMANENT STAIR	20	10	L/360
	ATTIC WITH OUT STORAGE	10	10	L/240
	STAIRS	40		L/360
	EXTERIOR BALCONIES	60	10	L/360
	DECKS	40	10	L/360
	GUARDRAILS AND HANDRAILS	200		
	PASSENGER VEHICLE GARAGES	50	10	L/360
	FIRE ESCAPES	40	iõ	L/360
	SNOW	20		

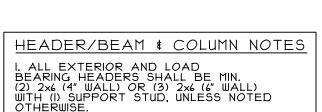
WIND LOAD (BASED ON 115/120 MPH WIND VELOCITY & EXPOSURE B)

3) WALL BRACING: BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION R602.10.3.

- THE AMOUNT AND LOCATION OF BRACING SHALL COMPLY WITH TABLE R602.10.1. THE LENGTH OF BRACED PANELS SHALL BE DETERMINED BY SECTION R602.10.4 LATERAL BRACING SHALL BE SATISFIED PER METHOD 3 BY CONTINUOUSLY SHEATHING WALLS WITH STRUCTURAL SHEATHING PER SECTION R602.10.3. NOTE THAT ANY SPECIFIC BRACED WALL DETAIL SHALL BE INSTALLED AS SPECIFIED.
- 4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACT STANDARDS. ALL SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACT STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP.
- 5) ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE 2000 F3F. THE CUMINARCTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTUAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAINSURFACE WATER AWAY FROM FOUNDATION WALLS.
- 4) ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 815 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2 (Fb=915 PSI). PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) = 425 PSI MIN).
- 1) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (I) 2x4 STUD COLUMN FOR 4'-O" MAX. BEAM SPAN (UNO), (2) 2X4 STUDS FOR BEAM SPAN GREATER THAN 6'-O" (UNO).
- 8) L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9x10<sup>6</sup> PSI, P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0x10<sup>6</sup> PSI, L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55x10<sup>6</sup> PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- 9) ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH ANY SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH DESIGNER OR ENGINEER.
- 10) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3  $1/2^{\circ}$  Inches and full flange width. Provide solid bearing from beam support to foundation. Beams shall be attached to each support with two lag SCREWS (1/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE • 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.
- II) REBAR SHALL BE DEFORMED STEEL, ASTM/15, GRADE 40.
- (2) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A301) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.
- 13) BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-O" (UNO).
- 14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF.
- I5) THE POSITIVE AND NEGATIVE DESIGN PRESSURES REQUIRED FOR ANY ROOF OR WALL CLADDING APPLICATION NOT SPECIFICALLY ADDRESSED IN THE NORTH CAROLINA STATE RESIDENTIAL CODE 2018 EDITION SHALL BE AS FOLLOWS: ROOF
- 45.4 PSE 2.25-12 PITCH OR LESS
- 34.8 PSF 2.25:12 TO 1:12 PITCH
- 21 PSF 7:12 TO 12:12 PITCH
- WALLS:
- 24.1 PSF WALLS







2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW:

- UP TO 4' SPAN: (I) KING STUD - OVER 4' UP TO 8' SPAN: (2) KING STUDS - OVER 8' UP TO II' SPAN: (3) KINGS STUDS - OVER II' SPAN: (4) KING STUDS

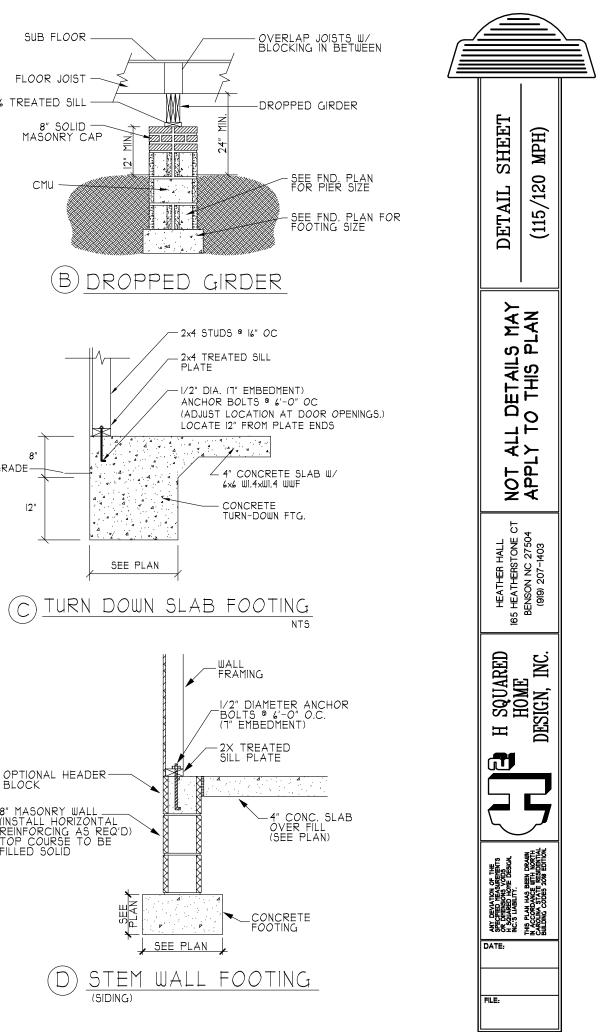
#### TRUSS SYSTEM REQUIREMENTS NC (2018 NCRC):

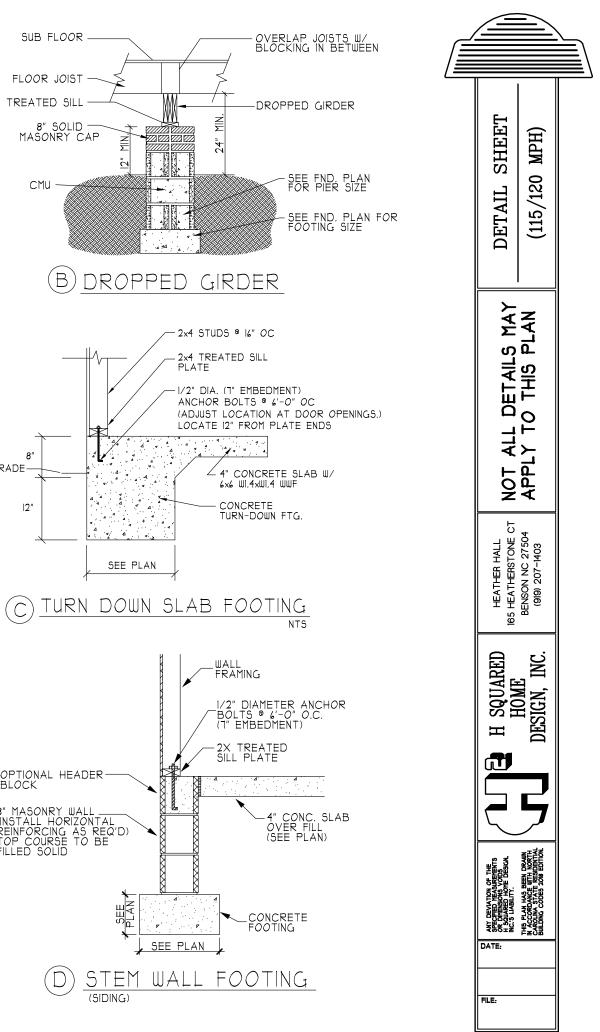
TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED TRUSS PROFILES. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH THE TRUSS MANUFACTURER.

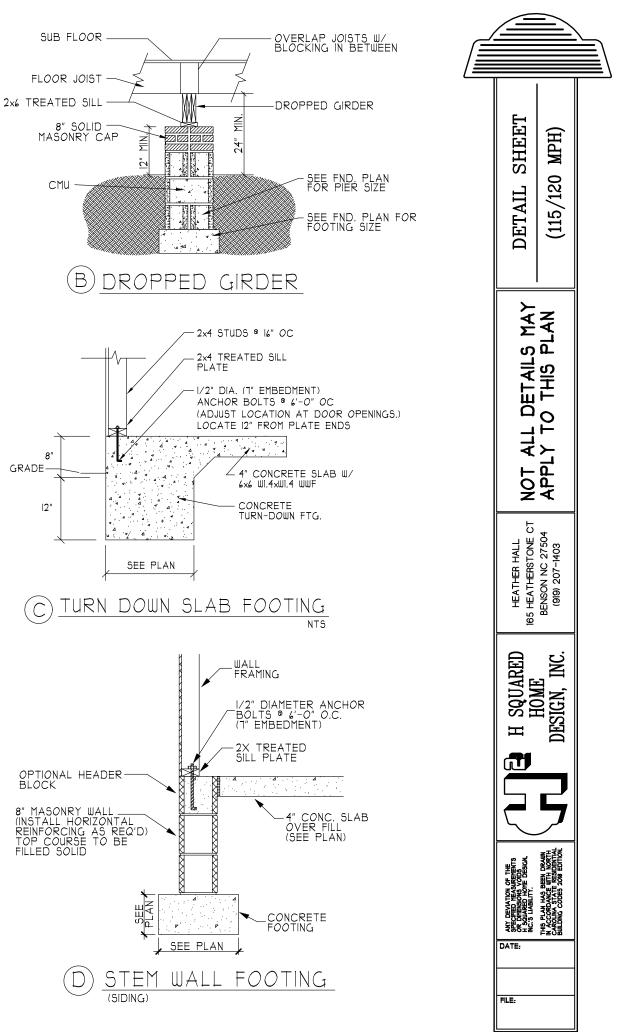
2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.

ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.









Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

# Builder: BVA Enterprises Model: Nicolas

### THE PLACEMENT PLAN NOTES:

1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.

2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.

3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.

4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.

5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.

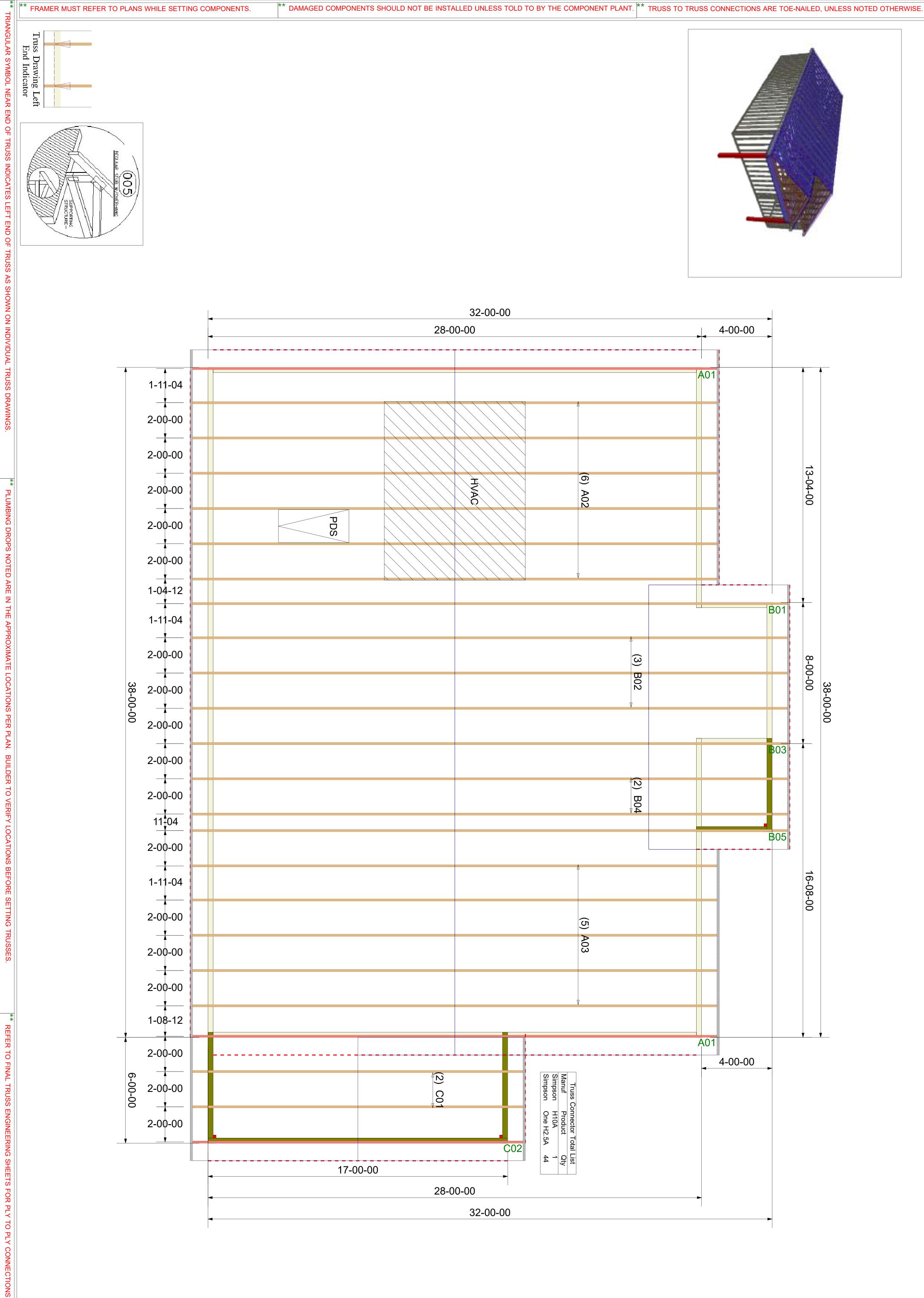
6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.

7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.

8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.

Apprved by: \_\_\_\_

Date: \_\_\_\_\_



**General Notes:** 

\*\* GIRDERS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS. \*\* DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH. \*\* All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the bldg designer and or contractor.

Scale: Date: 2/	BVA Enterprises	ß	THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See Individual design sheets for	00/00/00	00/00/	00/00/	0/00
NTS 2/21/2024 Designer: NC Project Numbe 24020066 Sheet Numbe	Nicolas	CARTER Lumber	each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor systems and for the overall structure. The disign of the tuss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing	7 7	00 	00 N	Revisions
er:	PLACEMENT PLAN		of Wood Truss" available from the Truss Plate Institute, 583 D'Onifrio Drive: Madison, WI 53179	lame lame	ame	ame	ame



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

Re: 24020067-01 281 Church-Roof-Nicolas GLH

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

Pages or sheets covered by this seal: I63763038 thru I63763047

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

North Carolina COA: C-0844



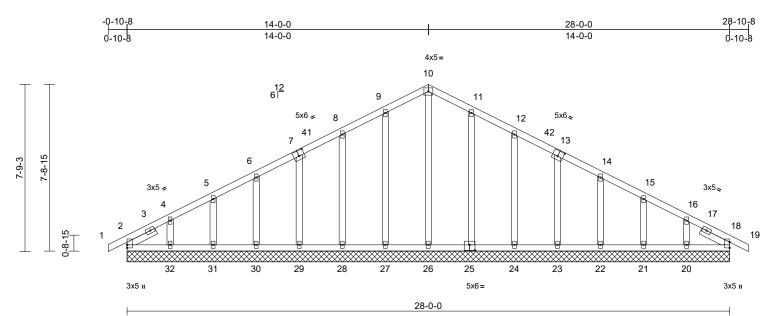
February 22,2024

### 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.

Jo	ob	Truss	Truss Type	Qty	Ply	281 Church-Roof-Nicolas GLH	
2	4020067-01	A01	Common Supported Gable	2	1	Job Reference (optional)	163763038

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Scale = 1:53.5

#### Plate Offsets (X, Y): [7:0-3-0,0-3-0], [13:0-3-0,0-3-0], [25:0-3-0,0-3-0]

	,, ,, ,, [1.0.0.	0,0 0 0],	[10:0 0 0;0 0 0]; [20	0.0 0 0,0	0 0]											
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL		(psf) 20.0 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 YES IRC20	4 018/TPI2014	CSI TC BC WB Matrix-MSH	0.07 0.04 0.16	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	·	-	n/a	L/d 999 999 n/a	PLATES MT20 Weight: 173 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	OP CHORD         2x4 SP No.2           OT CHORD         2x4 SP No.2           DTHERS         2x4 SP No.3           LIDER         Left 2x4 SP No.3 1-6-0, Right 2x4 SP No.3           LIDER         Left 2x4 SP No.3 1-6-0           BRACING         OP CHORD           OP CHORD         Structural wood sheathing directly applied or 6-0-0 oc purlins.           ROT CHORD         Rigid ceiling directly applied or 10-0-0 oc bracing.           BEACTIONS         (size)         2=28-0-0, 18=28-0-0, 20=28-0-0, 21=28-0-0, 25=28-0-0, 24=28-0-0, 25=28-0-0, 23=28-0-0, 30=28-0-0, 31=28-0-0, 31=28-0-0, 31=28-0-0, 31=28-0-0, 33=28-0-0, 37=28-0-0           Max Horiz         2=-114 (LC 15), 33=-114 (LC 15)           Max Uplift         2=-17 (LC 15), 22=-42 (LC 15), 21=-36 (LC 15), 22=-42 (LC 15), 23=-42 (LC 15), 23=-42 (LC 15), 23=-42 (LC 15), 25=-40 (LC 15), 27=-41 (LC 14),		No.3 ed or c -0-0, -0-0, -0-0, -0-0, -0-0, 15)	TOP CHORD BOT CHORD WEBS	$\begin{array}{c} 1-2=0/23, 2-4=-135/57, 4-5=-92/63, \\ 5-6=-72/80, 6-8=-55/129, 8-9=-69/175, \\ 9-10=-86/216, 10-11=-86/216, \\ 11-12=-69/176, 12-14=-52/130, \\ 14-15=-46/44, 15-16=-59/20, 16-18=-86/33, \\ 18-19=0/23 \\ 2-32=-23/110, 31-32=-23/110, 30-31=-23/110, \\ 29-30=-23/110, 28-29=-24/111, \\ 27-28=-24/111, 26-27=-24/111, \\ 24-26=-24/111, 26-27=-24/111, \\ 24-26=-24/111, 26-27=-22/109, \\ 20-21=-22/109, 18-20=-22/109, \\ 20-21=-22/109, 18-20=-22/109, \\ 10-26=-130/19, 9-27=-197/70, 8-28=-186/80, \\ 7-29=-130/74, 6-30=-113/74, 5-31=-119/71, \\ 4-32=-111/107, 11-25=-196/69, \\ 12-24=-186/80, 13-23=-130/74, \\ 14-22=-113/74, 15-21=-119/71, \\ 16-20=-111/107 \end{array}$				5) 6) 7) 8) 9) 10) 11)	Plate D DOL=1 Cs=1.0 Unbala design. This tru load of overha All plate Gable s This tru chord li * This t on the 3-06-00	OOL=1 (.15); I (0; Ct= (uss ha (12.0 p (ngs no es are require (studs s (uss ha (ive loa (russ ha (toton 0 tall b	.15); i s=1.0 snow s bee osf or on-col 2x4 I es cor space s bee id nor as be n choi y 2-0	Pf=20.0 psf (Lun ); Rough Cat B; I loads have beer in designed for g 1.00 times flat m ncurrent with oth MT20 unless oth ntinuous bottom ad at 2-0-0 oc. in designed for a nconcurrent with en designed for rd in all areas with	nerwise indicated.	e 9; his f live sf on ads. 0psf	
	22 22 23 30 33 34 34 22 24 24 24 24 24 24 24 24 24 24 24 24	1=-36 (L. 3=-42 (L. 5=-40 (L. 8=-45 (L. 0=-43 (L. 2=-85 (L. 2=-85 (L. 2=152 (L 4=226 (L 6=163 (L 8=225 (L 0=152 (L)	C $15$ , $22=-42$ (LC 1 C $15$ ), $24=-45$ (LC 1 C $15$ ), $27=-41$ (LC 1 C $15$ ), $27=-41$ (LC 1 C $14$ ), $31=-33$ (LC 1 C $14$ ), $33=-17$ (LC 1 C $14$ ), $33=-17$ (LC 1 C $14$ ), $33=-17$ (LC 1 C $21$ ), $18=139$ (LC 2 C $35$ ), $21=157$ (LC C $35$ ), $23=168$ (LC C C $22$ ), $25=235$ (LC C $27$ ), $27=236$ (LC C $27$ ), $27=236$ (LC C $24$ ), $31=156$ (LC C $34$ ), $31=156$ (LC	), 5), 5), 4), 4), 5) 2), 22), 22), 22), 22), 21), 21), 21),	<ol> <li>Unbalance this design</li> <li>Wind: ASC Vasd=103r Cat. II; Exp zone and C 2-0-0 to 11 (2N) 17-0-C zone; canti and right e: MWFRS fo grip DOL=<sup>2</sup></li> <li>Truss desi only. For s see Standa</li> </ol>	E 7-16; Vult=130mp nph; TCDL=6.0psf; B; Enclosed; MWF C-C Corner(3E) -0-11 -0-0, Corner(3R) 11 0 to 25-10-8, Corner lever left and right e xposed;C-C for men r reactions shown; L	h (3-sea BCDL=6 RS (env )-8 to 2- 0-0 to 1 (3E) 25- xposed hbers ar umber 1 in the p d (norm nd Deta	cond gust) 6.0psf; h=25ft; 6.elope) exterior 0-0, Exterior 10-8 to 28-10 ; end vertical di forces & DOL=1.60 pla lane of the tru al to the face iils as applical	; 2N) or )-8 left lss ), ble,			Winnin		SEA 0363	322	Mammin

FORCES (lb) - Maximum Compression/Maximum Tension

or consult qualified building designer as per ANSI/TPI 1.



Page: 1



Continued on page 2 Design valid for use only with MTesk connectors. This design is based only upon parameters and received to be added to be adde and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	281 Church-Roof-Nicolas GLH	
24020067-01	A01	Common Supported Gable	2	1	Job Reference (optional)	163763038

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2, 41 lb uplift at joint 27, 45 lb uplift at joint 28, 41 lb uplift at joint 29, 43 lb uplift at joint 30, 33 lb uplift at joint 31, 85 lb uplift at joint 32, 40 lb uplift at joint 25, 45 lb uplift at joint 24, 42 lb uplift at joint 23, 42 lb uplift at joint 22, 36 lb uplift at joint 21, 73 lb uplift at joint 20 and 17 lb uplift at joint 2.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 33.
- 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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 08:29:23 ID:dhy??BgWMufZFdTXIPW?dbzIAn1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

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 **ANSUTP11 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.sbcaccomponents.com)



Job	Truss	Truss Type	Qty	Ply	281 Church-Roof-Nicolas GLH	
24020067-01	A02	Common	6	1	Job Reference (optional)	163763039

12-6-0

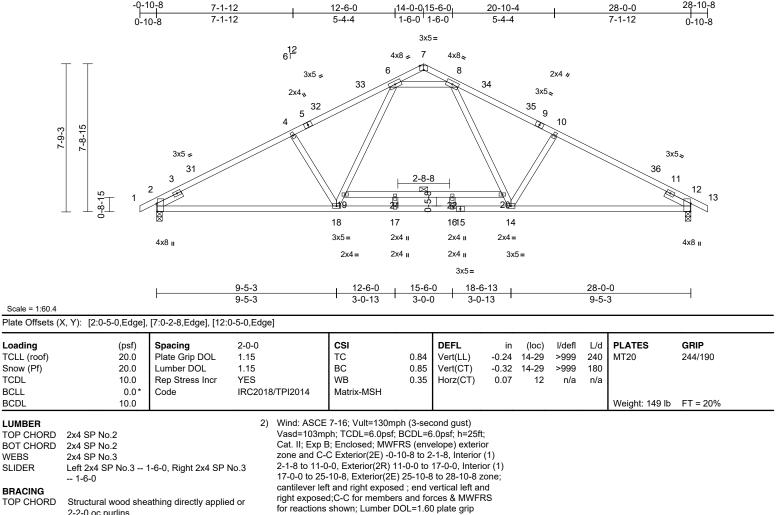
Carter Components (Sanford, NC), Sanford, NC - 27332,

-0-10-8

7-1-12

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Page: 1 28-10-8 20-10-4 28-0-0 5-4-4 7-1-12 0-10-8



	2-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc
	bracing.
WEBS	1 Row at midpt 19-20
REACTIONS	(size) 2=0-3-8, 12=0-3-8
	Max Horiz 2=-118 (LC 15)
	Max Uplift 2=-124 (LC 14), 12=-124 (LC 15)
	Max Grav 2=1188 (LC 21), 12=1188 (LC 22)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/23, 2-4=-1813/242, 4-6=-1623/261,
	6-7=-53/127, 7-8=-53/127, 8-10=-1623/261,
	10-12=-1813/242, 12-13=0/23
BOT CHORD	2-18=-236/1552, 17-18=-43/1173,
	16-17=-43/1173, 14-16=-43/1173,
	12-14=-141/1552
WEBS	8-20=-83/543, 14-20=-87/521,
	10-14=-406/220, 18-19=-88/521,
	6-19=-83/543, 4-18=-406/220, 19-21=-19/0,
	21-22=-19/0, 20-22=-19/0, 17-21=0/29,
	16-22=0/29, 6-8=-1213/301

#### NOTES

TCDL

BCLL

BCDL

WEBS

Unbalanced roof live loads have been considered for 1) this design.

DOL=1.60 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

- 3) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 4) desian.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated. 6) This truss has been designed for a 10.0 psf bottom 7)
- chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf 8) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. This connection is for uplift only and does not consider lateral forces.
- 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



818 Soundside Road

Edenton, NC 27932

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 bucking 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 BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	281 Church-Roof-Nicolas GLH	
24020067-01	B01	Roof Special	1	1	Job Reference (optional)	163763040

Run: 8.63 S. Nov. 1 2023 Print: 8.630 S.Nov. 1 2023 MiTek Industries. Inc. Wed Feb 21 08:29:30 Page: 1 ID:RVg7QBjyzdimGUwMdJcUwwzIAoG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-1-12 -0-10-8 0-10-82-1-12 32-10-8 4-1-12 7-0-0 12-6-0 18-0-0 24-10-4 32-0-0 2-0-0 2-10-4 5-6-0 5-6-0 6-10-4 7-1-12 0-10-8 4x5= 7 28 12 6 2x4 / 27 29 2-8-8 3x5 3x5 ≠ 7-8-15 6 30 5-6-0 1-8-8 8 9 7-9-4 3<sup>12</sup> 5x6 = 2x4 II 5 3x5 31 2x4 Λ 2-2-15 10 2-2-15 3 11 0-5-15 12 ГŧП × 17 16 15 32 1433 13 19 18 3x5= 4x5= 3x5 =3x5= 3x5= 3x6= 2x4 II 2x4 II 4x8 II <u>2-1-12 4-1</u>-12 32-0-0 7-1-12 15-2-13 23-5-11 2-1-12 2-0-0 3-0-0 8-2-13 8-1-1 8-6-5 Scale = 1:62.1 Plate Offsets (X, Y): [11:0-5-0,Edge] Loading Spacing 1-11-4 CSI DEFL in (loc) l/defl L/d PLATES GRIP (psf) TCLL (roof) 20.0 Plate Grip DOL 1.15 тс 1.00 Vert(LL) -0.27 15-17 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.83 Vert(CT) -0.54 15-17 >623 180 TCDL 10.0 Rep Stress Incr YES WB 0.38 Horz(CT) 0.07 11 n/a n/a

BCDL		10.0			
LUMBER				2)	V
TOP CHORD	2x4 SP N	o.1 *Excep	t* 5-7,8-12:2x4 SP No.2		V
BOT CHORD	2x4 SP 24	400F 2.0E *	Except* 16-14:2x4 SP		С
	No.1				Z
WEBS	2x4 SP N				2
SLIDER	Right 2x4	SP No.3	1-6-0		lr
BRACING					3
TOP CHORD			athing directly applied.		v fc
BOT CHORD		ing directly	applied or 10-0-0 oc		D
	bracing.			3)	Т
REACTIONS	(size)		1=0-3-8, 18=4-3-8,	0)	P
		19=4-3-8,			D
			: 14), 20=116 (LC 14)		С
	Max Uplift		14), 11=-121 (LC 15),	(4)	U
			LC 14), 19=-842 (LC 36)	),	d
	Max Grav	20=-77 (L	C 5), 11=1291 (LC 6),	5)	Т
	Wax Glav		LC 5), 19=44 (LC 14),		lc
		20=1081 (			0
FORCES	(lh) - Max		pression/Maximum	6)	Т
1011020	Tension		procolori/maximam	7)	с *
TOP CHORD		2-3=-2473	/292, 3-4=-2371/299,	7)	~
		8/334, 5-6=			0 3
	6-7=-1832	2/373, 7-9=	-1937/409,		c
	9-11=-202	27/349, 11-	12=0/23	8)	P
BOT CHORD			19=-234/2354,	-,	b
			5-17=-181/1823,		jc
		,	13=-193/1755	9)	Ć
WEBS		6/158, 6-17	,		re
		3/201, 7-15 4/721, 9-13			U
		4/721, 9-13 0/111. 3-19			0
NOTES	4-10300	5/111, 5-19	-0/304	10)	
NOTES	مط سمم هاله ا	aada har	haan aanaidanad f		lr R
1) Unbalance	eu root iive l	oads nave	been considered for		R

0.0

Code

IRC2018/TPI2014

BCLL

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-12, Interior (1) 2-1-12 to 14-9-10, Exterior(2R) 14-9-10 to 21-2-6, Interior (1) 21-2-6 to 29-8-2, Exterior(2E) 29-8-2 to 32-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MSH

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live oad of 12.0 psf or 1.00 times flat roof load of 20.0 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 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 842 lb uplift at oint 19.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at joint 11. This connection is for uplift only and does not consider lateral forces.
- 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



Weight: 159 lb

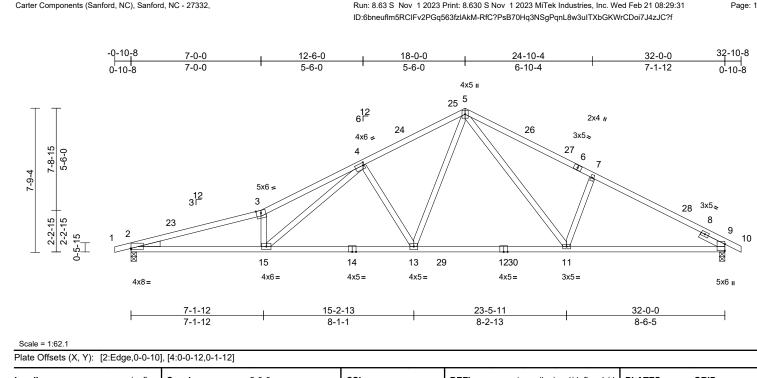
FT = 20%

0-8-15

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Job	Truss	Truss Type	Qty	Ply	281 Church-Roof-Nicolas GLH	
24020067-01	B02	Roof Special	3	1	Job Reference (optional)	163763041

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 08:29:31



Loading         (psf)           TCLL (roof)         20.0           Snow (Pf)         20.0           TCDL         10.0           BCLL         0.0*           BCDL         10.0		2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.97 0.80 0.84	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 13-15 13-15 9	l/defl >999 >647 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 158 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.1 *Excep 2.0E BOT CHORD 2x4 SP 2400F 2.0E * No.1 WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 SLIDER Right 2x4 SP No.3 BRACING TOP CHORD Structural wood shea BOT CHORD Structural wood sheat BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 2=0-3-8, 9 Max Horiz 2=120 (LC Max Uplift 2=-158 (LI Max Grav 2=1440 (L FORCES (lb) - Maximum Com	*Except* 14-12:2x4 SI - 1-6-0 athing directly applied applied or 10-0-0 oc 9=0-3-8 C 14), 9=-126 (LC 15); C 5), 9=1437 (LC 3) pression/Maximum 1/594, 3-4=-4335/701, -2187/458, 1=0/23 -15=-262/2335, 1=-230/1978 5=-282/2022, 1=-131/1205, =-429/227	. 3) ) 4) 5) 6) 7) 8) 9)	Vasd=103mp Cat. II; Exp E zone and C-1 2-3-14 to 14 Interior (1) 2' 32-10-8 zone vertical left a forces & MW DOL=1.60 pl TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct= Unbalanced design. This truss ha load of 12.0 poverhags n This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar One H2.5A S recommende UPLIFT at jt( and does not This truss is International	snow loads have b s been designed f on-concurrent with s been designed f id nonconcurrent with s been designed n chord in all area: y 2-00-00 wide wi y 0 ther members, simpson Strong-Tid d to connect truss s) 2 and 9. This cc consider lateral for designed in accord Residential Code nd referenced stan	CDL=6 CD	.0psf; h=25ft; elope) exterio -3-14, Interioio to 21-2-6, =) 29-8-2 to xposed ; end nembers and Lumber :: Lum DOL=: DL=1.15 Plate Exp.; Ce=0.5 isidered for th er of min roof pad of 20.0 p; ve loads. 0 psf bottom other live loa e load of 20.0 p; ve coads. 0 psf bottom other live loa e load of 20.0 p; ve coads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loa e load of 20.0 p; ve a loads. 0 psf bottom other live loads. 0 psf	nr r (1) 1.15 ); his live sf on ds. )psf om to only				ORTH CA	ROUNT



0-8-15

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818 Soundside Road Edenton, NC 27932

A. G minimum) February 22,2024

Job	Truss	Truss Type	Qty	Ply	281 Church-Roof-Nicolas GLH	
24020067-01	B03	Roof Special	1	1	Job Reference (optional)	163763042

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 08:29:33 ID:IF?fL2H?VGtv9q\_2PmOfN8zIAjf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-2-13

-0-10-8 0-10-8 32-10-8 7-0-0 12-6-0 18-0-0 24-10-4 32-0-0 0-10-8 7-0-0 5-6-0 5-6-0 6-10-4 7-1-12 4x5= 26 <sup>5</sup> 12 6 2x4 // 25 27 3x5、 3x6 ≠ 7-8-15 5-6-0 4 28 6 7 7-9-4 5x6 = 12 31 3 29 <sup>3x5</sup>≈ 2-2-15 8 2-2-15 24 0-8-15 9 2 0-5-15 10 П П 15 14 13 30 1231 11 16 3x5= 4x6= 4x5= 4x5= 3x5= 3x10 = 4x8 II 4-1-12 7-1-12 15-2-13 23-5-11 32-0-0

8-1-1

Scale = 1:62.1

#### Plate Offsets (X, Y): [2:0-0-6,0-1-8], [9:0-5-0, Edge]

4-1-12

3-0-0

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	0.92	Vert(LL)	-0.33	13-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.93	Vert(CT)	-0.65	13-15	>518	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.51	Horz(CT)	0.09	9	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MSH								
BCDL	10.0											Weight: 158 lb	FT = 20%
LUMBER			2	Wind: ASCE	7-16; Vult=130mp	oh (3-seo	cond gust)		11) Thi	s truss is	s desig	ned in accordanc	e with the 2018
TOP CHORD	2x4 SP 2400F 2.0E No.2	*Except* 3-5,6-10:2:	x4 SP		ph; TCDL=6.0psf; B; Enclosed; MWF							dential Code sect ferenced standard	ions R502.11.1 and 1 ANSI/TPI 1
BOT CHORD		*Except* 14-12:2x4	SP	zone and C-	C Exterior(2E) -0-	10-8 to 2	2-3-14, Interio			CASE(S			
	No.1				-9-10, Exterior(2R)								
WEBS	2x4 SP No.3				1-2-6 to 29-8-2, Ex								
WEDGE	Left: 2x4 SP No.3				e; cantilever left ar								
SLIDER	Right 2x4 SP No.3 -	- 1-6-0			ind right exposed;( /FRS for reactions								
BRACING					late grip DOL=1.60		Lumber						
TOP CHORD					E 7-16; Pr=20.0 ps		· Lum DOI =	1 15					
BOT CHORD		applied or 10-0-0 o	c U		1.15); Pf=20.0 psf								
	bracing, Except:	45			Is=1.0; Rough Cat								
	2-2-0 oc bracing: 13			Cs=1.00; Ct		. <u>.</u> ,,	_, 00 0.0	.,					
REACTIONS	· · · ·	9=0-3-8, 16=0-3-8	4		snow loads have I	been co	nsidered for th	his					
	Max Horiz 2=120 (LC		-	design.									
	Max Uplift 2=-118 (L	<i>,,</i>	5), 5	) This truss ha	as been designed f	for great	er of min roof	live					
	16=-46 (L		、 、	load of 12.0	psf or 1.00 times f	lat roof l	oad of 20.0 p	sf on					
	Max Grav 2=1036 (I 16=465 (I		),		on-concurrent with								
500050	,	,	6		as been designed f								
FORCES	(Ib) - Maximum Com	pression/iviaximum			ad nonconcurrent								
TOP CHORD	Tension 1-2=0/17, 2-3=-3221	1/402 2 4- 2200/60	1 7		has been designed			Opsf				MILLIN	1111.
TOP CHORD	4-5=-2039/419, 5-7=	,	Ι,		n chord in all area							IN'LY CA	Rall
	7-9=-2166/381, 9-10				oy 2-00-00 wide wi						1	all	
BOT CHORD			0		ny other members, /iTek connectors r						A.	O' EESS	in N'r
BOT ONORD	13-15=-230/2077, 1		8		ing walls due to U			iect			11	1P	No. SIA
	9-11=-216/1874	110 10/1001,			s for uplift only and			toral			-		
WEBS	3-15=-916/252, 4-15	5=-183/1236.		forces.	s for upint only and	i uoes li	or consider la	leial		-	1		
	4-13=-741/229, 5-13		9		Simpson Strong-Ti	e conre	ctors				:	SEA	L : =
	5-11=-147/731, 7-11		5		ed to connect truss			to		=		0363	22 =
NOTES					(s) 9. This connect					1		0303	
	ed roof live loads have	been considered fo	r		sider lateral force		. spint only di			-	8	•	1 S
this design					on Strong-Tie con		recommende	d to			1	O363	airs
1991gi			•		s to bearing walls						15	S VGINI	EFICAN
					tion is for uplift onl						11	710	allin
				lateral forces		-						IL A G	ILBEIT

This connection is for uplift only and does not consider lateral forces.

### A. GILBE February 22,2024

8-6-5

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Job	Truss	Truss Type	Qty	Ply	281 Church-Roof-Nicolas GLH	
24020067-01	B04	Roof Special	2	1	Job Reference (optional)	163763043

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 08:29:34 ID:uUuoPTt6B0w6wCfHDsGwKGzIAiv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-0-10-8 0-10-8 32-10-8 7-0-0 12-6-0 18-0-0 24-10-4 32-0-0 7-0-0 5-6-0 5-6-0 6-10-4 7-1-12 0-10-8 4x5= 26 <sup>5</sup> \_12 6Г 25 27 2x4 // 28 7-8-15 5-6-0 4 6 7 7-9-4 4x6 = 3<sup>12</sup> 3 29 2-2-15 8 2-2-15 24 9 2 0-5-15 M M ГŧП ă 15 14 13 30 1231 11 16 4x8 II

I.	4-1-12	7-1-12	15-2-13	23-5-11	32-0-0	1
Γ	4-1-12	3-0-0	8-1-1	8-2-13	8-6-5	

Scale = 1:62.1

#### Plate Offsets (X, Y): [9:0-5-0,Edge]

1.00         Vert(           0.98         Vert(           0.73         Horz	t(LL) -0.2	n (loc) 2 11-13 6 11-13 7 9	I/defl >999 >945 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 162 lb	<b>GRIP</b> 244/190 FT = 20%
at B; Fully Exp.;	F, h=25ft; e) exterior I, Interior (1) 1-2-6, -8-2 to bers and bers and ber m DOL=1.15 15 Plate 15 Plate ; Ce=0.9;					
flat roof load of th other live load to otherwise indi	of 20.0 psf on ads. dicated.					
with any other d for a live load	r live loads. d of 20.0psf				TH CA	Route
vill fit between the s, with BCDL = f ie connectors ss to bearing wa inis connection teral forces.	the bottom : 10.0psf. valls due to n is for uplift		4		SEA	L
t b forfithis for violations in the root	B; Fully Exp. been conside or greater of at roof load c other live loa other wise in or a 10.0 psf with any othe for a live loa s where a rec with BCDL = e connectors to bearing w is connection real forces.	to bearing walls due to his connection is for uplift	B; Fully Exp.; Ce=0.9; been considered for this or greater of min roof live at roof load of 20.0 psf on other live loads. otherwise indicated. or a 10.0 psf bottom with any other live loads. I for a live load of 20.0psf s where a rectangle II fit between the bottom with BCDL = 10.0psf. e connectors to bearing walls due to his connection is for uplift eral forces. dance with the 2018	B; Fully Exp.; Ce=0.9; been considered for this or greater of min roof live at roof load of 20.0 psf on other live loads. otherwise indicated. or a 10.0 psf bottom with any other live loads. for a live load of 20.0psf s where a rectangle II fit between the bottom with BCDL = 10.0psf. e connectors to bearing walls due to his connection is for uplift	B; Fully Exp.; Ce=0.9; been considered for this or greater of min roof live at roof load of 20.0 psf on other live loads. otherwise indicated. or a 10.0 psf bottom with any other live loads. I for a live load of 20.0psf s where a rectangle II fit between the bottom with BCDL = 10.0psf. e connectors to bearing walls due to his connection is for uplift real forces. dance with the 2018	B; Fully Exp.; Ce=0.9; been considered for this or greater of min roof live at roof load of 20.0 psf on other live loads. or a 10.0 psf bottom with any other live loads. for a live load of 20.0psf s where a rectangle II fit between the bottom with BCDL = 10.0psf. e connectors to bearing walls due to is connection is for uplift

R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

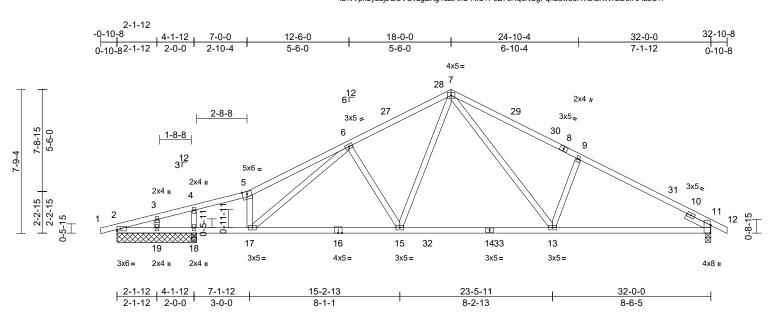


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Job	Truss	Truss Type	Qty	Ply	281 Church-Roof-Nicolas GLH	
24020067-01	B05	Roof Special	1	1	Job Reference (optional)	163763044

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 08:29:34 ID:vVpnLyLajbGOVUvLgEXg1uzIAnS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.1

Plate Offsets (X, Y): [11:0-5-0,Edge]

BCDL       10.0       Weight: 159 lb       FT = 20%         LUMBER TOP CHORD       2x4 SP No.1 "Except" 5-7,8-12:2x4 SP No.2       2)       Wind: ASCE 7-16; Vult=130mpl (3-second gust)       Vaad-103mpl; TCDL=6.0psf; BcDL=6.0psf; B=25f; Cat.II: Exp B; Enclosed; MWFRS (envelope) exterior         BOT CHORD       2x4 SP No.3       SULDER       Right 2x4 SP No.3       2)       Vind: ASCE 7-16; Vult=130mpl (3-second gust)         WEBS       2x4 SP No.3       Structural wood sheathing directly applied.       ToP CHORD       Structural wood sheathing directly applied.       Iter (1) 12-24 for 23-8-2; Exterior(2E) 29-8-2 to 32-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; number DOL=1.16) left and right exposed; C-C for members and forces & MWFRS for reactions shown; number DOL=1.16) left and right exposed; C-C for members and forces & MWFRS for reactions shown; number DOL=1.16).         REACTIONS       (is; e)       2-4-3-8, 11=0-3-8, 18=4-3-8, 19=4-3-8, 12=4-3-8, 20=-77 (LC 14), Max Upit 12 2=-77 (LC 14), 20=-177 (LC 14), 20=-178 (LC 15), 1==129 (LC 25), 11=-120 (1-16), 20=-24878(334, 18=19=-234/2354, 17=-53807(3, 1=-17=-5787), 7=1=-207/364 (LC 11); 21=-2027/364 (LC 11); 21
1) Unbalanced roof live loads have been considered for R802.10.2 and referenced standard ANSI/TPI 1.

February 22,2024

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Job	Truss	Truss Type	Qty	Ply	281 Church-Roof-Nicolas GLH	
24020067-01	A03	Common	5	1	Job Reference (optional)	163763045

-- 1-6-0

bracing

Tension

10-12=-139/1704

Structural wood sheathing directly applied.

Rigid ceiling directly applied or 10-0-0 oc

2=0-3-8, 10=0-3-8

2-14=-236/1705, 12-14=-29/1160,

6-12=-101/753, 8-12=-437/224,

6-14=-101/755, 4-14=-437/224

Unbalanced roof live loads have been considered for

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior

zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1)

2-1-8 to 11-0-0, Exterior(2R) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 25-10-8, Exterior(2E) 25-10-8 to 28-10-8 zone; cantilever left and right exposed : end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

Wind: ASCE 7-16; Vult=130mph (3-second gust)

Max Horiz 2=-118 (LC 15)

BRACING

FORCES

TOP CHORD

BOT CHORD

this design.

DOL=1.60

WEBS

NOTES

1)

2)

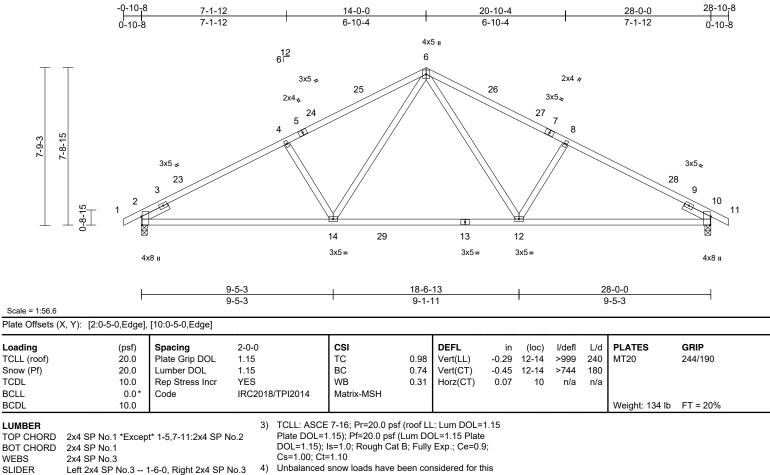
TOP CHORD

BOT CHORD

**REACTIONS** (size)

Run: 8.63 S. Nov. 1 2023 Print: 8.630 S.Nov. 1 2023 MiTek Industries. Inc. Wed Feb 21 08:29:30 ID:wsSwA1NuijzKCYvh9bZczpzIAm7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



- 4) Unbalanced snow loads have been considered for this desian.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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. 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle
- Max Uplift 2=-124 (LC 14), 10=-124 (LC 15) 3-06-00 tall by 2-00-00 wide will fit between the bottom Max Grav 2=1276 (LC 5), 10=1275 (LC 6) chord and any other members, with BCDL = 10.0psf. (Ib) - Maximum Compression/Maximum One H2.5A Simpson Strong-Tie connectors 8) recommended to connect truss to bearing walls due to 1-2=0/23, 2-4=-1972/248, 4-6=-1813/273,
- UPLIFT at jt(s) 2 and 10. This connection is for uplift 6-8=-1812/273, 8-10=-1971/248, 10-11=0/23 only and does not consider lateral forces. 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

### ORT VIIIIII CONTRACTO VIIIIIIIIIII SEAL 036322 GI 111111111 February 22,2024

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818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	281 Church-Roof-Nicolas GLH	
24020067-01	C02	Common Supported Gable	1	1	Job Reference (optional)	163763046

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 08:29:37 ID:vweeWnj490COmjrhhUVo1XzIAgW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

17-10-8 -0-10-8 8-6-0 17-0-0 0-10-8 8-6-0 8-6-0 0-10-8 4x5 = 7 12 6 ∟ 6 8 P 5 9 4-11-15 5-0-3 3x5 ≈ 31 P 32 <sup>10</sup>33 30 <sup>4</sup> 3x5 👟 3 11 12 2 D 9-8-15 13 0 40 Þ ٠. 21 20 19 18 17 16 15 14 3x5 и 3x5 = 3x5 II 17-0-0 Scale = 1:38.7 T

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr	1-11-4 1.15 1.15 YES IRC2018/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.07 0.04 0.06	Vert(CT)	in n/a n/a 0.00	(loc) - - 12	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 90 lb	<b>GRIP</b> 244/190 FT = 20%
	1-6-0 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 2=17-0-0, 15=17-0-1 22=17-0-1 22=17-0-1 Max Horiz 2=72 (LC Max Uplift 2=-20 (LC 14=-66 (L 20=-33 (L 22=-20 (LC 14=195 (L 16=239 (L 19=239 (L	3 15), 12=-8 (LC 15), C 15), 15=-36 (LC 15), C 15), 19=-47 (LC 14), C 15), 19=-47 (LC 14), C 15), 26=-8 (LC 15), C 1), 12=163 (LC 1), C 22), 15=213 (LC 22), C 22), 18=126 (LC 21), C 21), 20=213 (LC 21),	<ul> <li>this design.</li> <li>2) Wind: ASC</li> <li>Vasd=103r</li> <li>Cat. II; Exp zone and C</li> <li>2-1-8 to 5-6</li> <li>11-6-0 to 1.</li> <li>cantilever lk</li> <li>right expos</li> <li>for reaction</li> <li>DOL=1.60</li> <li>O, 3) Truss desi</li> <li>only. For s</li> <li>see Standa</li> <li>or consult of</li> <li>4) TCLL: ASC</li> <li>Plate DOL=</li> <li>DOL=1.00; C</li> <li>S) Unbalance</li> <li>design.</li> <li>h) load of 12.()</li> <li>overhangs</li> <li>7) All plates a</li> </ul>	I roof live loads hav 57-16; Vult=130mp ph; TCDL=6.0psf; I B; Enclosed; MWFI -C Corner(3E) -0-10 -0, Corner(3E), 5-6- I-10-8, Corner(3E), 5-6- I-10-8, Corner(3E), 5-6- I-10-8, Corner(3E), 5-6- I-10-8, Corner(3E), 5-6- I-10-8, Corner(3E), 5-6- d; and right expose d; C-C for members s shown; Lumber D gned for wind loads uds exposed to win rd Industry Gable E ualified building des E 7-16; Pr=20.0 psf (1s=1.0; Rough Cat =1.10; I snow loads have the as been designed f psf or 1.00 times fin on-concurrent with e 2x4 MT20 unless res continuous bott	oh (3-sec BCDL=6 RC (env 0-8 to 2- 0 to 11 14-10-8 d ; end v s and foo OL=1.6( in the p nd (norm ind Deta signer a: f (roof LL (Lum DC B; Fully been cor for great lat roof la o ther line of la o ther env s other with	cond gust) 0.0psf; h=25ft; elope) exterior 1-8, Exterior(2 to 17-10-8 zo vertical left am- cres & MWFR 0 plate grip lane of the tru val to the face) ils as applicat s per ANSI/TF .: Lum DOL=1 DL=1.15 Plate Exp.; Ce=0.9 msidered for th er of min roof oad of 20.0 ps ve loads. se indicated.	ar 2N) 2N) 2N) 2N) d 2S 3S 3S 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	bea 2, 8 at ju 36 at ju 13) This Inte R80 LOAD	aring pla b lb uplift b uplift b uplift b uplift b uplift b uplift b uplift b uplift b uplift control b uplift control control b uplift control control b uplift control control control b uplift control control control control b uplift control control cont	te capa at join 72 lb uj d 8 lb s s desig al Resic and ref ) Star	ble of withstandi t 12, 47 lb uplift a oblift at joint 21, 44 uplift at joint 12, ned in accordance dential Code sec erenced standar ndard	y others) of truss to ing 20 lb uplift at joint at joint 19, 33 lb uplift 6 lb uplift at joint 16, t joint 14, 20 lb uplift ce with the 2018 tions R502.11.1 and d ANSI/TPI 1.
FORCES	(lb) - Maximum Com Tension 1-2=0/23, 2-4=-61/4 5-6=-70/122, 6-7=-7 8-9=-70/122, 9-10=- 12-13=0/23	6, 4-5=-65/74,	9) Gable stud 10) This truss h chord live lo 11) * This truss on the botto	spaced at 2-0-0 or as been designed f ad nonconcurrent has been designed m chord in all areas	c. for a 10.0 with any I for a liv s where	0 psf bottom other live load re load of 20.0 a rectangle	)psf				SEA 0363	• -
BOT CHORD	2-21=0/60, 20-21=0, 18-19=0/60, 16-18= 14-15=0/60, 12-14= 7-18=-87/7, 6-19=-2	D/60, 15-16=0/60, D/60 00/92, 5-20=-179/84,	chord and a	by 2-00-00 wide wi ny other members.		veen the botto	om		1	and the second s	RIC A C	EER. ALUTION
	4-21=-143/116, 8-16 10-14=-143/116	)=-200/92, 9-15=-179/8	34,								2011111	y 22,2024

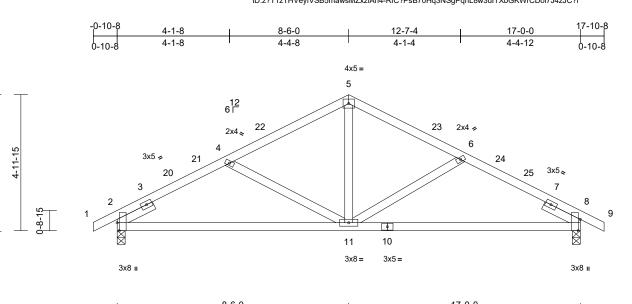
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **ANSUTP11 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	281 Church-Roof-Nicolas GLH	
24020067-01	C01	Common	2	1	l6 Job Reference (optional)	3763047

5-0-3

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Wed Feb 21 08:29:36 ID:z?T1zTHVeyfVSB5mawsMZxzIAh4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



	8-6-0	17-0-0
I	8-6-0	8-6-0
Scale = 1:42.3		

Plate Offsets	(X, Y): [2:0-3-8,Edge],	[8:0-5-0,Edge]											
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-MSH	0.45 0.58 0.18	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 11-18 11-18 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 82 lb	<b>GRIP</b> 244/190 FT = 20%
this desig 2) Wind: AS Vasd=10 Cat. II; Ex zone and 2-1-8 to 5 11-6-0 to cantilever right expo	2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.3 1 1-6-0 Structural wood shea 5-0-6 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 8 Max Horiz 2=-74 (LC Max Uplift 2=-81 (LC Max Grav 2=798 (LC (lb) - Maximum Com Tension 1-2=0/23, 2-4=-1128 5-6=-826/220, 6-8=- 2-211=-161/970, 8-11 5-11=-33/432, 6-11= Sed roof live loads have in. CC 7-16; Vult=130mph 3mph; TCDL=6.0psf; Bf xp B; Enclosed; MWFR3 C-C Exterior(2E) 1-0-10 5-6-0, Exterior(2E) 1 r left and right exposed cos shown; Lumber DO	athing directly applie applied or 10-0-0 or 3=0-3-8 (15) (21), 8=-81 (LC 15) (21), 8=798 (LC 22) pression/Maximum 3/278, 4-5=-833/218, 1114/274, 8-9=0/23 1=-154/954 348/143, 4-11=-35 been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterio (	No.3 4) 5) ed or 6) 7) 8) 5/147 8) 5/147 Cr r r (1) 1) pone; d	Plate DOL=1 DOL=1.15); Cs=1.00; Ct= Unbalanced design. This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss ha chord and ar One H2.5A S recommende UPLIFT at jt( and does no This truss is International	snow loads have b as been designed for psf or 1.00 times fli- on-concurrent with as been designed fn ad nonconcurrent v has been designed m chord in all areas by 2-00-00 wide will by 0-ther members. Simpson Strong-Tie ed to connect truss (s) 2 and 8. This co t consider lateral for designed in accorc. Residential Codes and referenced stan	Lum DC B; Fully opeen cor or great at roof li other li or a 10. with any for a liv s where ll fit betw e conne to bear onces. dance w sections	DL=1.15 Plate Exp.; Ce=0.9 nsidered for the er of min roof pad of 20.0 pic ve loads. 0 psf bottom other live loa re load of 20.1 a rectangle veen the bottic ctors ing walls due n is for uplift of ith the 2018 s R502.11.1 a	e 9; his f live sf on ads. 0psf om e to				SEA 0363	22 EER A

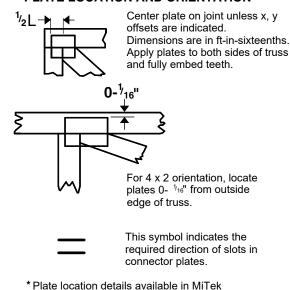
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GI China China February 22,2024

# Symbols

#### PLATE LOCATION AND ORIENTATION



software or upon request.

#### PLATE SIZE



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

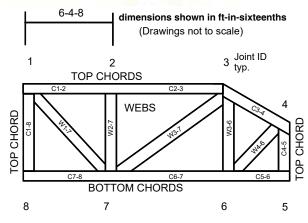


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

#### **Industry Standards:**



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

# General Safety Notes

#### Failure to Follow Could Cause Property Damage or Personal Injury

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