MELISSA JOHNSON & ERIC COLE RESIDENCE

#1695

= 1695 = 128 = 420 = 3185

FIRST FLOOR FRONT PORCH COVERED PORCH

HEATHER or JOHNATHAN HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403

H SQUARED HOME DESIGN, INC.



HIS PLAN HAS BEEN DRAWN
A ACCORDANCE WITH NORTH
AROLINA STATE RESIDENTIAL
MILDING CODES 2018 EDITION.

HERWISE, H SQUARED HOME DESIGN,
NOT LIABLE.
lan is to be built by the homeowner
der as cited in this title block only.

| | STORY

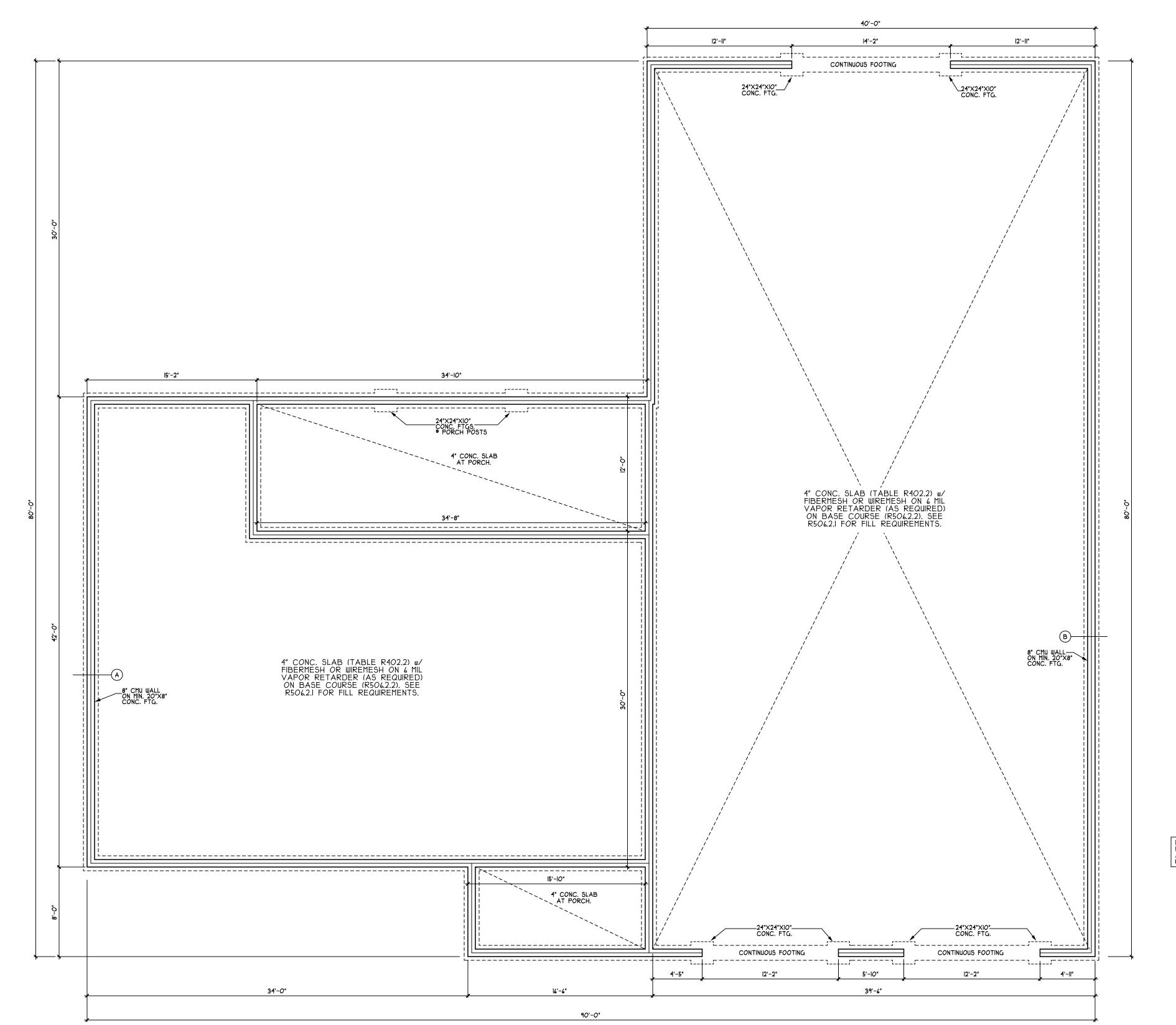
FILE: 103621

COLE

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H SQUARED HOME DESIGN, INC.



NOTE: FOR FOUNDATION WALL HEIGHT, THICKNESS, AND BACKFILL REQUIREMENTS, REFER TO TABLE R404.I.I (1 THRU 4)

NOTE ASSUMED SOIL BEARING CAPACITY = 2000
PSF CONTRACTOR MUST VERIFY SITE CONDITIONS
AND CONTACT SOILS ENGINEER IF MARGINAL OR
UNSTABLE SOILS ARE ENCOUNTERED

ANCHOR BOLTS

ANCHOR BOLTS TO BE
PLACED WITHIN 12" OF
EVERY CORNER AND FROM
EVERY SPLICE AND AT 6'-0"
O.C. WITH 1" MIN. IN CONC.

DAMP PROOFING

FOR DRAINAGE, DAMP PROOFING

WATER PROOFING REFER TO
SECTION 405 # 406 IN 2018
EDITION NC RES. CODES

REFER TO BASIC DETAIL SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

> STEM WALL SLAB FOUNDATION PLAN SCALE 3/16" = 1'-0"

ANY DEVIATION OF OTHERWING IS NOT This plan is or builder a Not release

I STORY
FILE:
103621

JOHNSON

MELISSA

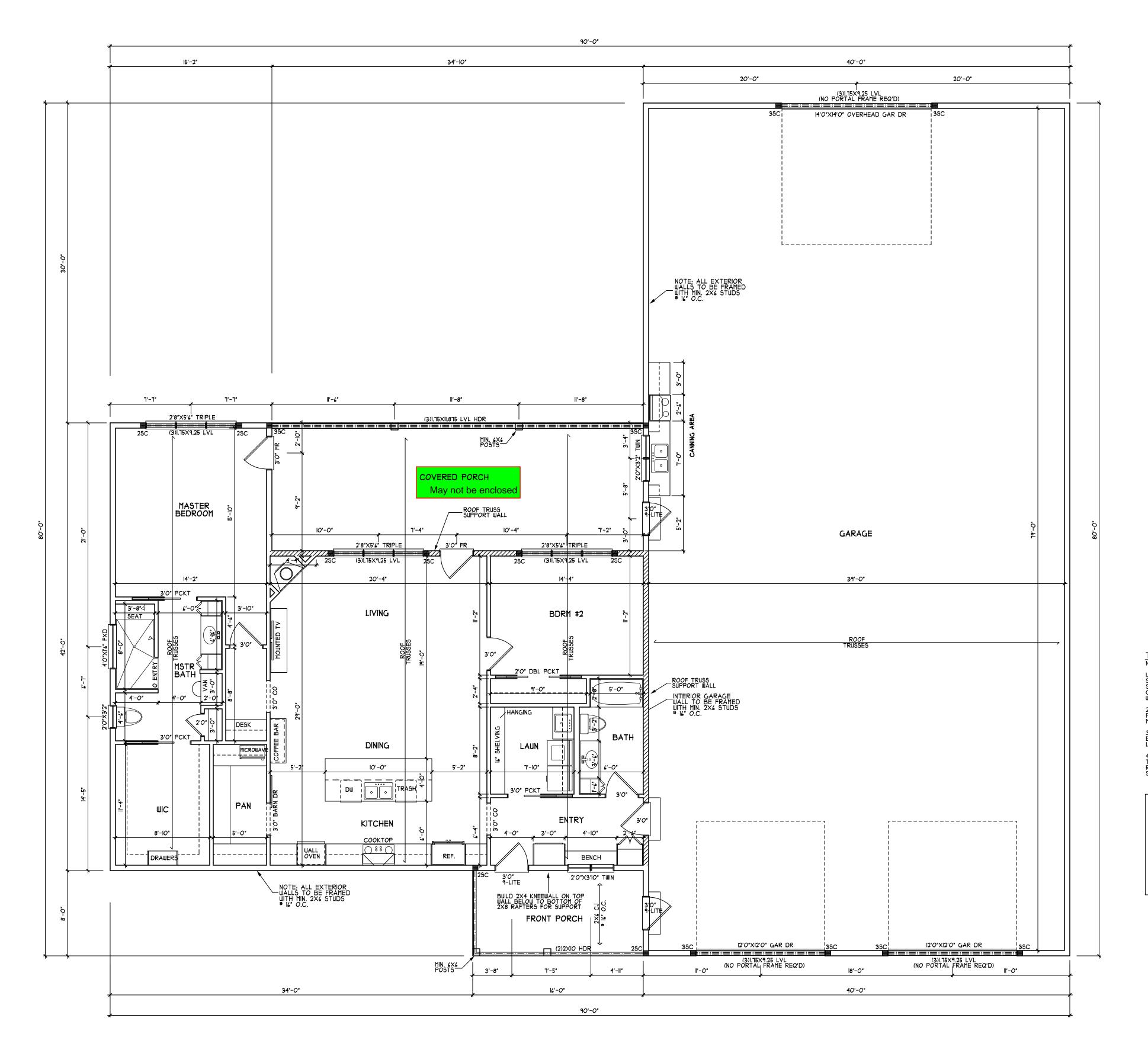
COLE

ERIC

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1695 128 420 3185



TRUSS SYSTEM REQUIREMENTS
NC (2018 NCRC): Wind: 115-120 MPH

I. 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.

3. 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.

HEADER/BEAM & COLUMN NOTES I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2×10 (4" WALL) OR (3) 2×10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE. - UP TO 4' SPAN: (1) KING STUD - OVER 4' UP TO 8' SPAN: (2) KING STUDS - OVER 8' UP TO 11' SPAN: (3) KINGS STUDS - OVER 11' SPAN: (4) KING STUDS

H SQUARED HOME DESIGN, INC.

' DEVIATION OF THIS PLAN, DIMENSIONS OTHERWISE, H SQUARED HOME DESIGN, IS NOT LIABLE. ANY DEVIATOR OR OTHERWINC. IS NOT This plan is or builder Not release

DATE: 11/24/21 I STORY

103621

REFER TO BASIC DETAIL SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES FIRST FLOOR PLAN SCALE 3/16" = 1'-0"

ANY DEVIATION OF THIS PLAN, DIMENSIONS
OR OTHERWISE, H SQUARED HOME DESIGN,
INC. IS NOT LIABLE.

This plan is to be built by the homeowner
or builder as cited in this title block only.

Not released for multiple builds.

DATE: 11/24/21 I STORY

103621



REFER TO BASIC DETAIL SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

ROOF PLAN
SCALE 3/16" = 1'-0"

)	DESIGN LOADS (R301.4)	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (LL)	
				,,	
	ROOMS OTHER THAN SLEEPING RO	OMS 40	10	L/360	
	SLEEPING ROOMS	30	10	L/360	
	ATTIC WITH PERMANENT STAIR	40	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	io	L/360	
	SNOII	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 ACI 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 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.

6) ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2 (Fb=975 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: (1) 2x4 STUD COLUMN FOR 6'-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=2400 PSI, Fv=285 PSI, E=1.9×10 PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0×10 PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55×10 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.

IO) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 I/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (I/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 9 48" O.C. . ALL STEEL TUBING SHALL BE ASTM A500.

II) REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.

12) 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.

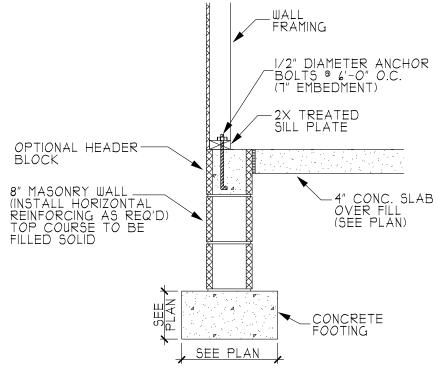
13) BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-O" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-O" (UNO).

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.

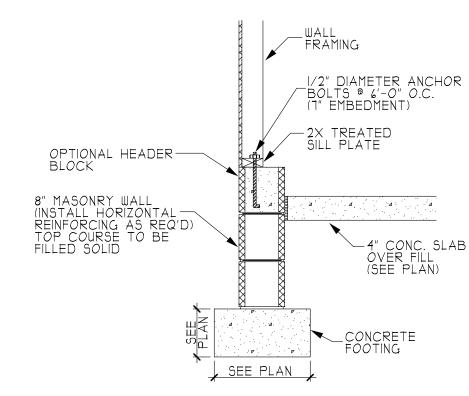
15) THE POSITIVE AND NEGATIVE DESIGN PRESSURES REQUIRED FOR ANY ROOF OR WALL CLADDING APPLICATION NOT SPECIFICALLY ADDRESSED IN THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION SHALL BE AS FOLLOWS:

45.4 PSF - 2.25:12 PITCH OR LESS 34.8 PSF - 2.25:12 TO 1:12 PITCH 21 PSF - 1:12 TO 12:12 PITCH WALLS:

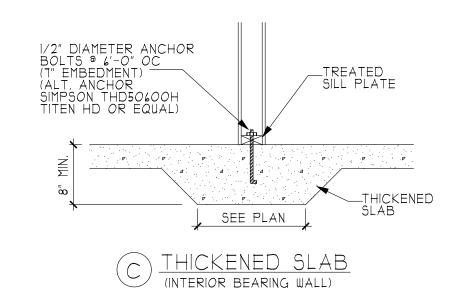
24.1 PSF - WALLS



(A) STEM WALL FOOTING



(B) GARAGE WALL FOOTING



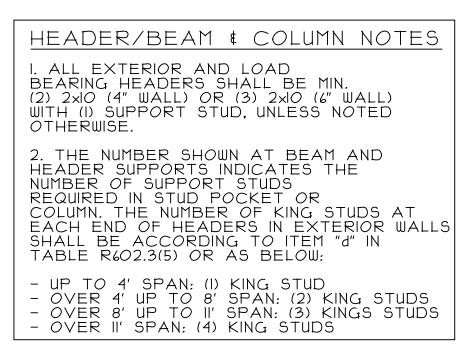
TRUSS SYSTEM REQUIREMENTS
NC (2018 NCRC): Wind: 115-120 MPH

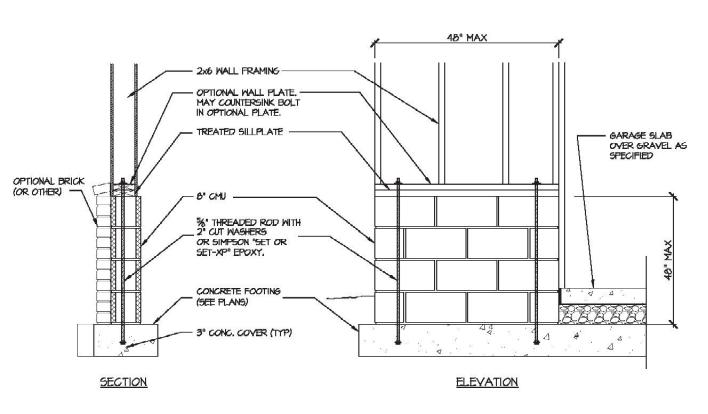
I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED TRUSS PROFILES. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH THE TRUSS MANUFACTURER.

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

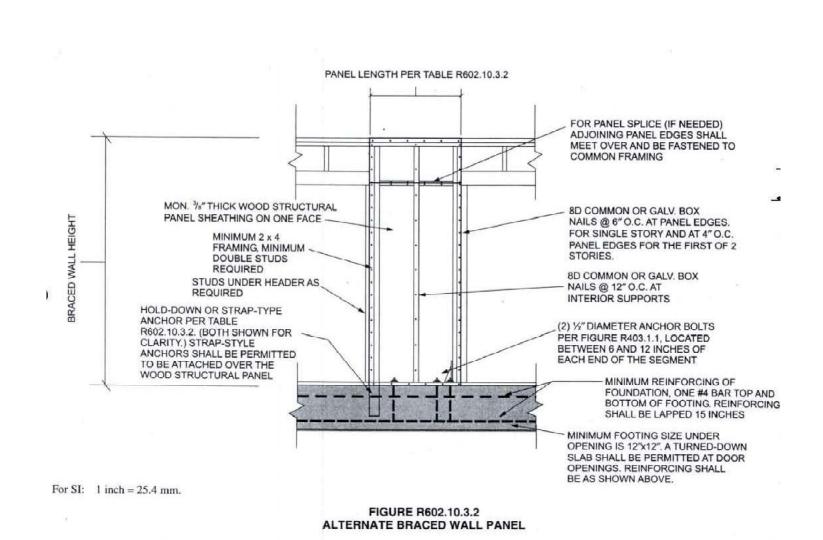
3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).

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





GARAGE 'WING WALL' REINFORCING PER IRC FIGURE R602.10.4.3



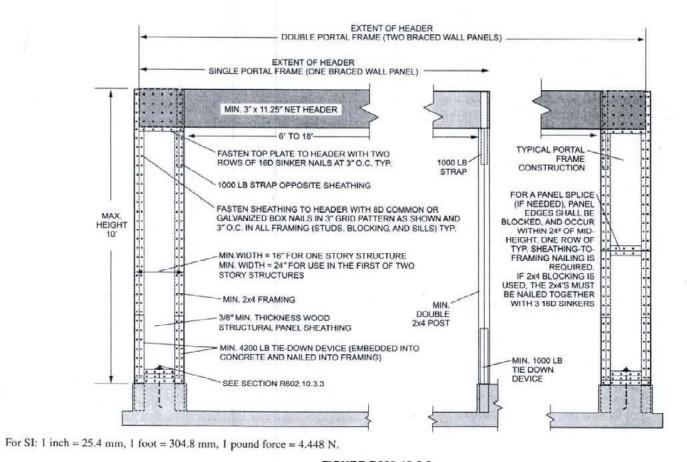


FIGURE R602.10.3.3
METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS

SASIC BUILDING
IL SHEET (115–120 MPH)

*PLEASE NOTE THAT NOT
ALL DETAILS APPLY TO
EVERY PLAN.

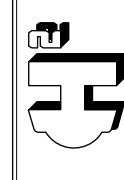
HEATHER HALL

S5 HEATHERSTONE CT

BENSON NC 27504

(010) 207-1403

H SQUARED HOME DESIGN, INC.



ANY DEVIATION OF THE SPECIFIED MEASUREMENTS OR DIMENSIONS VOIDS H SQUARED HOME DESIGN, INC.'S LIABILITY.

THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

DATE:

FILE:



Trenco

818 Soundside Rd Edenton, NC 27932

Re: 25735

BRANDON LEE/COLE

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

Pages or sheets covered by this seal: I48147190 thru I48147201

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



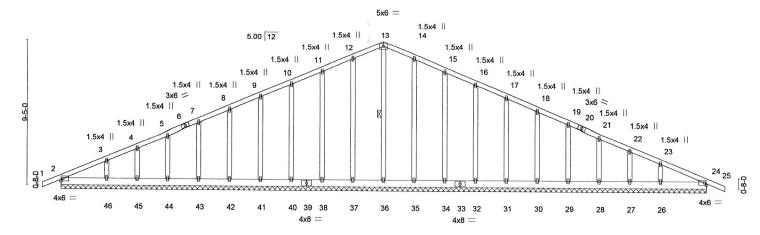
September 30,2021

Sevier, Scott

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 BRANDON LEE/COLE 148147190 25735 G1 GABLE Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 29 15:45:37 2021 Page 1 ID:pFJVHx?bQQurmNPxZvS0ORyE18p-xB_yjTLrAwdszSxsNDQy?KvT9MU85TWgiWiXHYyYjsC 21-0-0 21-0-0 42-0-0

'1-2-8' Scale = 1:71.9



					42-0-0						
COADING (psf) FCLL 20.0 FCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.04 0.01 0.16 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 0.00	(loc) 25 25 24	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 304 lb	GRIP 244/190 FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E

OTHERS 2x4 SP No.3

REACTIONS. All bearings 42-0-0.
(lb) - Max Horz 2=180(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 24, 37, 38, 40, 41, 42, 43, 44, 45, 46, 35, 34, 32, 31, 30, 29, 28, 27, 26

Max Grav All reactions 250 lb or less at joint(s) 2, 24, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 35, 34, 32, 31, 30, 29, 28, 27, 26

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=42ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 24, 37, 38, 40, 41, 42, 43, 44, 45, 46, 35, 34, 32, 31, 30, 29, 28, 27, 26.
- 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

13-36

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

1 Row at midpt

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see _____ANTIFP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply BRANDON LEE/COLE 25735 PB₁ 148147191 Piggyback Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 29 15:45:38 2021 Page 1 ID:pFJVHx?bQQurmNPxZvS00RyE18p-PNYLxoMTxEljbcW2wxxBYXSd3lnLqyopxAU5q_yYjsB 4-6-0 4-6-0 4x4 = Scale = 1:19.9 3 8.00 12 4 5 0-1-8 2x4 = 1.5x4 || 2x4 = 9-0-0 9-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in I/defI TCLL 20.0 L/d PLATES Plate Grip DOL GRIP 1.15 TC BC 0.10 Vert(LL) TCDL n/a n/a 999 10.0 Lumber DOL 1.15 MT20 244/190 0.14 Vert(CT) n/a BCLL n/a 999 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 BCDL 5 n/a 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 31 lb FT = 20%LUMBER-BRACING-TOP CHORD 2x4 SP 2400F 2.0E TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 9-0-0.

Max Horz 1=-63(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-213(LC 13), 5=-186(LC 14), 2=-148(LC 8), 4=-148(LC 8)

All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=419(LC 13), 4=403(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES.

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

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip
- Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 1, 186 lb uplift at joint 5, 148 lb uplift at joint 2 and 148 lb uplift at joint 4.
- 7) 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.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932

Job Truss Truss Type Qty Plv BRANDON LEE/COLE 25735 PB2 148147192 Piggyback 39 Job Reference (optional) C&R Truss. Autryville, NC - 28318, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 29 15:45:39 2021 Page 1 ID:pFJVHx?bQQurmNPxZvS00RyE18p-ta6j88N5iYtaCm5FUeSQ4I_oo97aZP2z9qEeMRyYjsA 4-6-0 9-0-0 4x4 = Scale = 1:19.9 8.00 12 5 2x4 = 1.5x4 || 2x4 = 9-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) l/defl TCLL 20.0 I/d **PLATES GRIP** Plate Grip DOL 1.15 TC 0.10 Vert(LL) n/a 999 TCDL n/a MT20 244/190 Lumber DOI 1.15 BC 0.14 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 BCDL 10.0 n/a n/a Code IRC2015/TPI2014 Matrix-P Weight: 31 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP 2400F 2.0E TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** REACTIONS. All bearings 9-0-0.

(lb) - Max Horz 1=-63(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-213(LC 13), 5=-186(LC 14), 2=-148(LC 8), 4=-148(LC 8)

All reactions 250 lb or less at joint(s) 1, 5, 6 except 2=419(LC 13), 4=403(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip
- 3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 1, 186 lb uplift at joint 5, 148 lb uplift at joint 2 and 148 lb uplift at joint 4.
- 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.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. MAYNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 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



Edenton, NC 27932

Job Truss Truss Type Qty Ply BRANDON I FF/COLF 148147193 25735 T1 **GABLE** Job Reference (optional) C&R Truss, Autryville, NC - 28318. 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 29 15:45:41 2021 Page 1 ID:pFJVHx?bQQurmNPxZvS0ORyE18p-pyETZqOME97IS4Fdc3Uu9A42yzkQ17YGd8jlQJyYjs8 7-10-12 15-6-0

24-6-0

32-1-4

7-7-4

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-11-15 max.): 5-7.

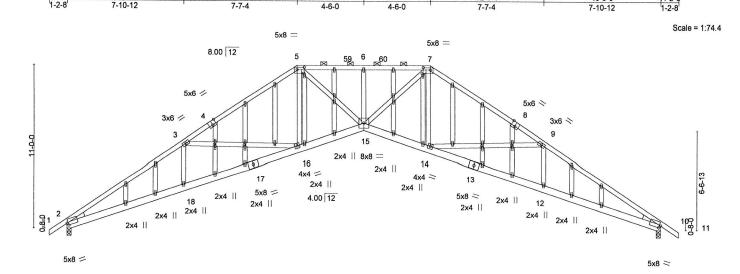
Rigid ceiling directly applied.

40-0-0

7-10-12

20-0-0

4-6-0



FI-1- 0"- 1- (Y)	7-10-12 7-10-12	15-6-0 7-7-4	4-6-0	4-6-0		32-1-4 7-7-4	40-0-0 7-10-12	
Plate Offsets (X,Y)	- [2:0-1-1,0-1-14], [4:0-3-0 ,0-0-12], [40:0-1-11,0-0-	,Edge], [5:0-5-12,0 12], [45:0-1-8,0-0-1	0-2-0], [7:0-5-12,0-2-0], 12], [48:0-1-8,0-0-12]	, [8:0-3-0,Edge], [10:	0-1-1,0-1-14	4], [23:0-1-11,0-0-12],	, [26:0-1-8,0-0-12], [29:0-1	I-8
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.50 BC 0.50 WB 0.80 Matrix-AS	Vert(CT) -0 Horz(CT) 0	in (loc) 0.30 15 0.59 15 0.50 10	I/defl L/d >999 360 >807 240 n/a n/a >999 240		GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E WEBS 2x4 SP No.3

2x4 SP No.3 **OTHERS**

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS.

BOT CHORD

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

7-10-12

Max Horz 2=265(LC 7)

Max Uplift 2=-165(LC 8), 10=-165(LC 8) Max Grav 2=1673(LC 1), 10=1673(LC 1)

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4208/262, 3-5=-3490/177, 5-6=-3912/151, 6-7=-3912/151, 7-9=-3490/177, 9-10=-4208/262

2-18=-100/3571, 16-18=-100/3623, 15-16=0/2943, 14-15=0/2943, 12-14=-100/3608, 10-12=-100/3551

WEBS 3-16=-669/234, 5-16=-10/522, 5-15=0/1491, 7-15=0/1497, 7-14=-10/522, 9-14=-692/234

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2 and 165 lb uplift
- 11) 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.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum Contained of bage plied directly to the bottom chord.

TH CARO **JORTH** 04492 WGINEER M. SEVIIII Paptember 30,2021

🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE ARKINING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MILITARY 189. 37 182.020 DEFUNE OSC.

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. Bracking 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 amage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qtv	Plv	PRANDON LEE/COLE
		21	aty	l r ly	BRANDON LEE/COLE
25735	T1	GABLE	1		I48147193
			1	1	
C&R Truss, Autryville,	NC - 28318.				Job Reference (optional)

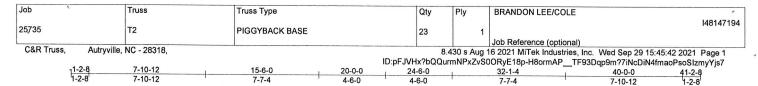
Autryville, NC

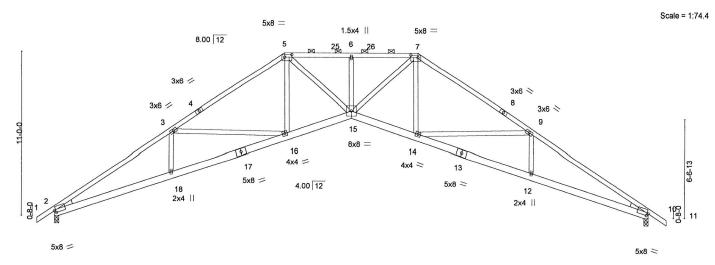
8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 29 15:45:41 2021 Page 2 ID:pFJVHx?bQQurmNPxZvS0ORyE18p-pyETZqOME97IS4Fdc3Uu9A42yzkQ17YGd8jlQJyYjs8

NOTES-

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







	7-10-12	15.	6-0	20-0-0	24-6-	0 1		32-1-4	1	40-0-0	
	7-10-12	7-	7-4	4-6-0	4-6-0)		7-7-4		7-10-12	
Plate Offsets (X,Y) [2:0-1-1,0-1-14], [5:0-5-1	2,0-2-0], [7:0-5	-12,0-2-0], [10	:0-1-1,0-1-14]						7 10 12	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15 YES	CSI. TC BC	0.50 0.50 0.80	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.30 -0.59 0.50 0.19	(loc) 15 15 10 15	I/defl >999 >807 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 243 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-11-15 max.): 5-7.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x6 SP 2400F 2.0E WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 10=0-3-8 Max Horz 2=265(LC 7)

Max Uplift 2=-165(LC 8), 10=-165(LC 8) Max Grav 2=1673(LC 1), 10=1673(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4208/262, 3-5=-3490/177, 5-6=-3912/151, 6-7=-3912/151, 7-9=-3490/177,

9-10=-4208/262

BOT CHORD 2-18=-100/3571, 16-18=-100/3623, 15-16=0/2943, 14-15=0/2943, 12-14=-100/3608,

10-12=-100/3551

WEBS 3-16=-669/234, 5-16=-10/522, 5-15=0/1491, 7-15=0/1497, 7-14=-10/522, 9-14=-692/234

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

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2 and 165 lb uplift at joint 10.
- 8) 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

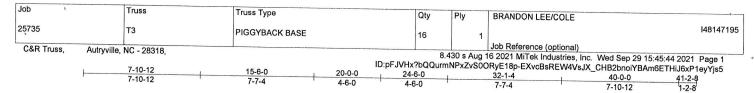


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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932



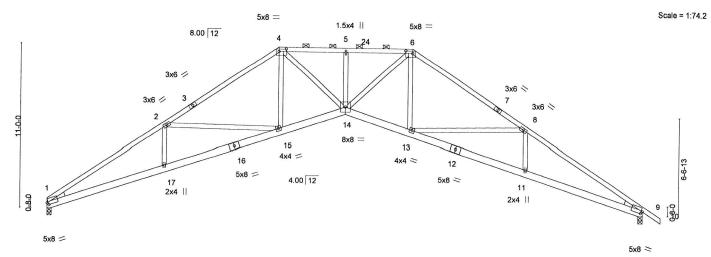


Plate Offsets (X,Y) [7-10-12 7-10-12 1:0-1-1,0-1-14], [4:0-5-1	15-6 7-7 2,0-2-0], [6:0-5	20-0	0 460	<u>'</u>		32-1-4 7-7-4		40-0-0 7-10-12	———
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 YES	CSI. TC 0.51 BC 0.50 WB 0.80 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.30 -0.59 0.50 0.19	(loc) 14 14 9	I/defI >999 >807 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 241 lb	GRIP 244/190 FT = 20%

BRACING.

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-11-15 max.): 4-6.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 9=0-3-8

Max Horz 1=-259(LC 6)

Max Uplift 1=-123(LC 8), 9=-165(LC 8) Max Grav 1=1599(LC 1), 9=1674(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-4225/273, 2-4=-3495/180, 4-5=-3918/154, 5-6=-3918/154, 6-8=-3493/179, TOP CHORD

8-9=-4211/264 **BOT CHORD**

1-17=-111/3588, 15-17=-110/3638, 14-15=0/2948, 13-14=0/2947, 11-13=-102/3611,

9-11=-102/3554

WEBS 2-15=-680/241, 4-15=-11/523, 4-14=0/1493, 6-14=0/1500, 6-13=-10/522, 8-13=-692/234

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 1 and 165 lb uplift at
- 8) 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

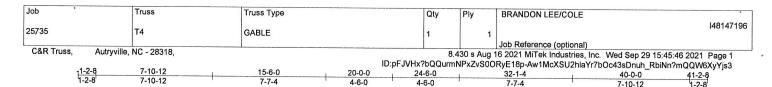


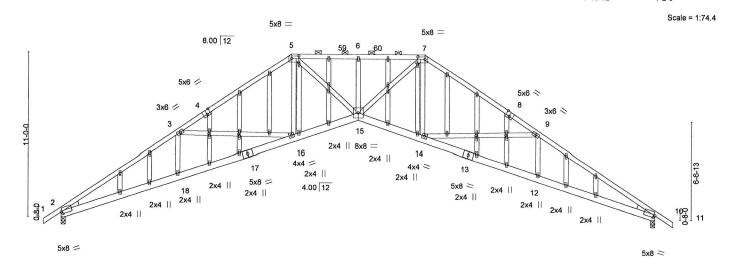
🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. WARNING - verily design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITE® component, not perind for use only with MITE® 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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





-	7-10-12 7-10-12	15-6- 7-7-					32-1-4 7-7-4		40-0-0	
Plate Offsets (X,Y)	[2:0-1-1,0-1-14], [4:0-3-0 ,0-0-12], [40:0-1-11,0-0-	,Edge], [5:0-5-12	2,0-2-0], [7:0-5-12,0-2-0]			1,0-1-14	·], [23:0-1	-11,0-0-12],	7-10-12 [26:0-1-8,0-0-12], [29:0	1-8
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TI	2-0-0 1.15 1.15 YES Pl2014	CSI. TC 0.50 BC 0.50 WB 0.80 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.30 -0.59 0.50 0.19	(loc) 15 15 10 15	I/defl >999 >807 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 313 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-11-15 max.): 5-7.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E 2x6 SP 2400F 2.0E **BOT CHORD WEBS** 2x4 SP No.3

OTHERS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=265(LC 7)

Max Uplift 2=-165(LC 8), 10=-165(LC 8) Max Grav 2=1673(LC 1), 10=1673(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4208/262, 3-5=-3490/177, 5-6=-3912/151, 6-7=-3912/151, 7-9=-3490/177, 9-10=-4208/262

BOT CHORD 2-18=-100/3571, 16-18=-100/3623, 15-16=0/2943, 14-15=0/2943, 12-14=-100/3608,

10-12=-100/3551

WEBS 3-16=-669/234, 5-16=-10/522, 5-15=0/1491, 7-15=0/1497, 7-14=-10/522, 9-14=-692/234

NOTES.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 9) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2 and 165 lb uplift at joint 10. 11) 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.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum Contained on bage plied directly to the bottom chord.

ORTH CARO, ORTH 04492 NGINEER M. SEVIIII Softember 30,2021

🚵 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MILITARY INC. STREAM DEFORCE COLD.

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 dange. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 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



Job	Truss	Truss Type	Qty	Ply	BRANDON LEE/COLE
25735	T4	GABLE	1	1	I48147196
C&R Truss, Autryville	NC - 28318,	IDveE M/Iv	8.4	430 s Aug	Job Reference (optional) 16 2021 MiTek Industries, Inc. Wed Sep 29 15:45:46 2021 Page 2

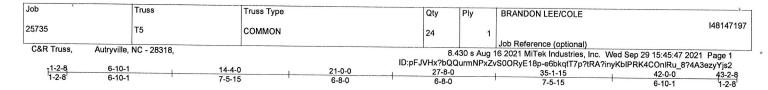
ID:pFJVHx?bQQurmNPxZvS00RyE18p-Aw1McXSU2hlaYr7bOc43sDnuh_RbiNn?mQQW6XyYjs3

NOTES-



818 Soundside Road Edenton, NC 27932

¹³⁾ Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



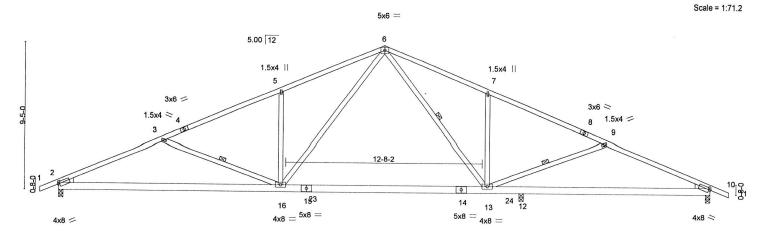


Plate Offsets (X,Y) [2:0	14-4-0 14-4-0 D-0-13,0-1-8], [10:0-0-13,0-1-8]		27-8-0 13-4-0		30-0-0 2-4-0	+	42-0-0 12-0-0	
COADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.39 BC 0.51 WB 0.55 Matrix-AS	Vert(CT) -0.8 Horz(CT) 0.8	83 13-16 08 10	l/defl >655 >431 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 246 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

Structural wood sheathing directly applied.

6-13, 9-13, 3-16

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E **BOT CHORD** 2x6 SP 2400F 2.0E WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS.

NOTES-

(size) 2=0-3-8, 10=0-3-8, 12=0-3-8

Max Horz 2=-180(LC 6)

Max Uplift 2=-171(LC 8), 10=-170(LC 8), 12=-1(LC 8) Max Grav 2=1614(LC 13), 10=1366(LC 14), 12=713(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3176/355, 3-5=-2713/254, 5-6=-2740/356, 6-7=-2246/355, 7-9=-2218/253,

9-10=-2660/354

BOT CHORD 2-16=-242/2987, 13-16=-7/1696, 12-13=-241/2370, 10-12=-241/2370 **WEBS**

6-13=-96/702, 7-13=-477/184, 9-13=-509/190, 6-16=-98/1432, 5-16=-470/184, 3-16=-536/190

Unbalanced roof live loads have been considered for this design.

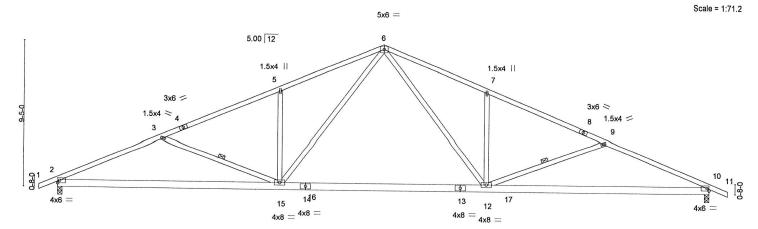
- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=160
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 2, 170 lb uplift at joint 10 and 1 lb uplift at joint 12.
- 6) 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITEMS connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty **BRANDON LEE/COLE** 148147198 25735 T6 GABLE Job Reference (optional)
8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 29 15:45:48 2021 Page 1 C&R Truss Autryville, NC - 28318, ID:pFJVHx?bQQurmNPxZvS0ORyE18p-6l961DUlaJ?ln8HzW16XyesD8n8aALflEkvcAPyYjs1 6-10-1 14-4-0 7-5-15 21-0-0 27-8-0 35-1-15 42-0-0 6-10-1 6-8-0 7-5-15 6-10-1



ļ	14-4-0 14-4-0		27-8-0 13-4-0		42-0-0 14-4-0			
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 YES Code IRC2015/TPI2014	CSI. TC 0.57 BC 0.40 WB 0.52 Matrix-S	Vert(CT) -0.60 Horz(CT) 0.08	(loc) I/defl 12-15 >999 12-15 >829 10 n/a 12-15 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 244 lb	GRIP 244/190 FT = 20%	

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=180(LC 7)

Max Uplift 2=-175(LC 8), 10=-175(LC 8) Max Grav 2=1771(LC 13), 10=1771(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3462/353, 3-5=-3068/252, 5-6=-3089/353, 6-7=-3089/353, 7-9=-3068/252,

9-10=-3462/353

BOT CHORD 2-15=-247/3207, 12-15=-9/2066, 10-12=-247/3072

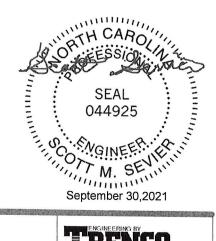
WEBS 6-12=-98/1350, 7-12=-462/182, 9-12=-435/193, 6-15=-98/1350, 5-15=-462/182,

3-15=-435/193

NOTES-

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

- Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0ps on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 175 lb uplift at joint 2 and 175 lb uplift at joint 10.
- 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.



Structural wood sheathing directly applied or 4-2-14 oc purlins.

9-12, 3-15

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

1 Row at midpt

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and lat 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 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

RENGO
AMI Tek Affiliate
818 Soundside Road

818 Soundside Road

Job Truss Truss Type Qty BRANDON LEE/COLE Ply 148147199 25735 V1 Valley Job Reference (optional) C&R Truss, Autryville, NC - 28318, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 29 15:45:49 2021 Page 1 $ID:pFJVHx?bQQurmNPxZvS00RyE18p-aVjVEZUNLc79PIsA4IdmUsPSxBX_vwKRTOfAisyYjs0$ 9-9-10 19-7-3

Scale = 1:31.4

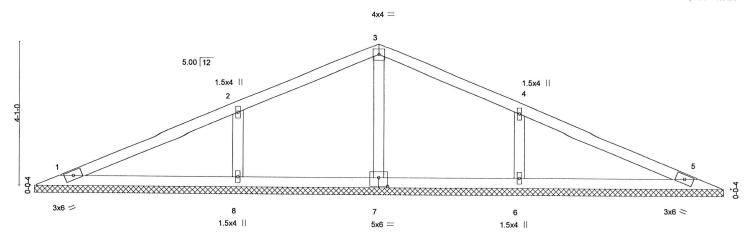


Plate Offsets (X,Y)	7:0-3-0,0-3-0]			19-7-3						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.31 BC 0.20 WB 0.04 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 69 lb	GRIP 244/190 FT = 20%

19-7-3

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 19-7-3.

(lb) - Max Horz 1=59(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=446(LC 17), 6=446(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-8=-328/123, 4-6=-328/123

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6. 7) 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 guildance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see _____ASI/TP11 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	DDAN	DONLEGGE		
25735	V2	Velle		Gty	Fly	BRAN	DON LEE/COI	LE	
		Valley		1	1 1				148147200
C&R Truss, Autryville	e, NC - 28318,			-	100 - 1	Job Re	ference (option	nal)	
1	6-9-10		ID:pFJVH)	ه bQQuri?	430 s Aug mNPxZvS	16 2021 00RvF18	MiTek Industri	es, Inc. Wed Sep 29	15:45:49 2021 Page 1 BVVvw9RTOfAisyYjs0
	6-9-10						13-7-3	C/9PISA4IdmUsPOQ	BVVvw9RTQfAisyYjs0
							6-9-10		
			4x6 =						Scale = 1:21.
			4X6 —						
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3x6 =			4 1.5x4						• • •
			1.584						3x6 <>
			13-7-3						
			13-7-3						
-OADING (psf)	SPACING- 2-0-0	CSI.							
TCLL 20.0	Plate Grip DOL 1.15		DEFL.	in		l/defl	L/d	PLATES	GRIP
CDL 10.0 BCLL 0.0 *	Lumber DOL 1.15	BC 0.36	Vert(LL) Vert(CT)	n/a	-	n/a	999	MT20	244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES	WB 0.06	Horz(CT)	n/a 0.00	3	n/a n/a	999 n/a		
10.0	Code IRC2015/TPI2014	Matrix-S	(01)	0.00	J	ilia	II/d	Weight: 43 lb	ET - 200/
UMBER-								vveignt. 43 ID	FT = 20%
OP CHOPD 244 CD N			BRACING.						

TOP CHORD

BOT CHORD

2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.2 **OTHERS**

REACTIONS. (size) 1=13-7-3, 3=13-7-3, 4=13-7-3

Max Horz 1=-40(LC 6)

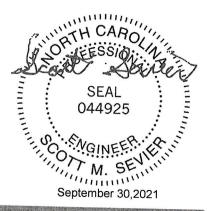
Max Uplift 1=-27(LC 8), 3=-27(LC 8), 4=-21(LC 8) Max Grav 1=217(LC 17), 3=217(LC 18), 4=543(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-4=-366/95

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

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 is always required for stability and 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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply BRANDON LEE/COLE 25735 V3 Valley 148147201 1 C&R Truss, Autryville, NC - 28318. Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Sep 29 15:45:50 2021 Page 1 ID:pFJVHx?bQQurmNPxZvS00RyE18p-2hHtSvV?6wF01SRMdS9?13xfxbvveNxah2OjFlyYjs? 3-9-10 Scale = 1:14.1 4x4 = 2 5.00 12 20-0 2x4 = 1.5x4 || 2x4 > LOADING (psf) SPACING-2-0-0 DEFL. TCLL 20.0 (loc) I/defl Plate Grip DOL L/d **PLATES** GRIP 1.15 TC 0.17 TCDL Vert(LL) 10.0 n/a Lumber DOL n/a 999 MT20 1.15 244/190 ВС 0.09 **BCLL** Vert(CT) 0.0 n/a Rep Stress Incr n/a 999 YES WB 0.02 BCDL Horz(CT) 0.00 10.0 Code IRC2015/TPI2014 n/a n/a Matrix-P Weight: 22 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS. (size) 1=7-7-3, 3=7-7-3, 4=7-7-3

Max Horz 1=-20(LC 6)

Max Uplift 1=-19(LC 8), 3=-19(LC 8)

Max Grav 1=120(LC 1), 3=120(LC 1), 4=248(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=140mph Vasd=111mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members. 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

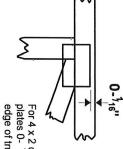


Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated Center plate on joint unless x, y and fully embed teeth. Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

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



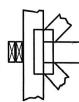
to slots. Second dimension is width measured perpendicular the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. Indicated by symbol shown and/or

BEARING



number where bearings occur.

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

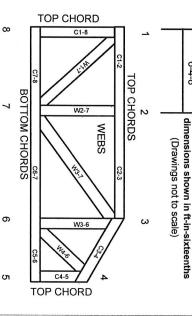
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling, Plate Connected Wood Truss Construction. Building Component Safety Information, Design Standard for Bracing

DSB-89:

Numbering System

6-4-8



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT

NUMBERS/LETTERS. CHORDS AND WEBS ARE IDENTIFIED BY END JOINT

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered. Truss bracing must be designed by an engineer. For
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4

- Cut members to bear tightly against each other
- locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint

6. 5

- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- use with fire retardant, preservative treated, or green lumber. Unless expressly noted, this design is not applicable for
- Camber is a non-structural consideration and is the camber for dead load deflection. esponsibility of truss fabricator. General practice is to
- 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
- 13. 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
- 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 is not sufficient. 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.