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MANG.

JRT

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12 #

1240 86 144 572

DECK

SQUARE FOOTAGE:
FIRST FLOOR
FRONT PORCH
PATIO/WOOD [
GARAGE

CT

HEATHER HALL
S5 HEATHERSTONE CT
BENSON NC 27504
(919) 207-1403

165

DAKOTA
T HAND GARAGE)

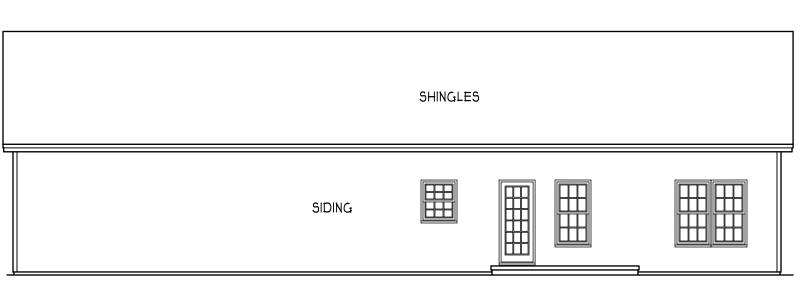
THE



ATTIC VENTILATION:

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN I TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE I TO 300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.

GROSS ATTIC AREA TO BE VENTILATED 1899 SQ.FT. 1899/150 = 12.66 SQ.FT. NET FREE AREA



ENERGY COMPLIANCE

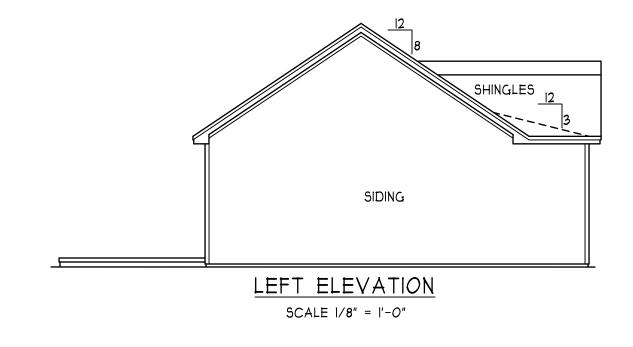
FRONT ELEVATION

SCALE 1/4'' = 1'-0''

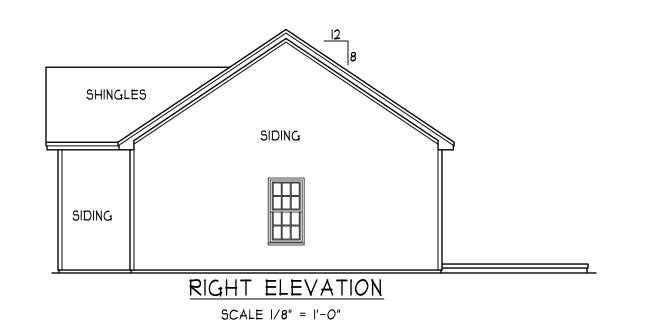
ZONE 3 = MAX. GLAZING U-FACTOR .35 R-VALUE = CEILING R38, WALLS R15, FLOORS R19 FOR JOHNSTON, WAYNE COUNTY ZONE 4 = MAX. GLAZING U-FACTOR .35 R-VALUE = CEILING R38, WALLS RIS, FLOORS RI9 FOR WAKE, ORANGE COUNTY

REAR ELEVATION

SCALE 1/8" = 1'-0"







SQUARED HOME DESIGN,

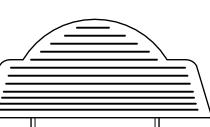
THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

02/25/2020 I STORY

FILE: 020320

EVERY SPLICE AND AT 6'-0"

O.C. WITH 7" MIN. IN CONC.



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DAKOTA
T HAND GARAGE) "THE

> 0 #12

1240 86 144 572 SQUARE FOOTAGE:
FIRST FLOOR
FRONT PORCH
PATIO/WOOD C

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

H SQUARED HOME DESIGN, INC.

ANY DEVIATION OF THE SPECIFIED MEASUREMENTS OR DIFENSIONS 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: 02/25/2020

I STORY

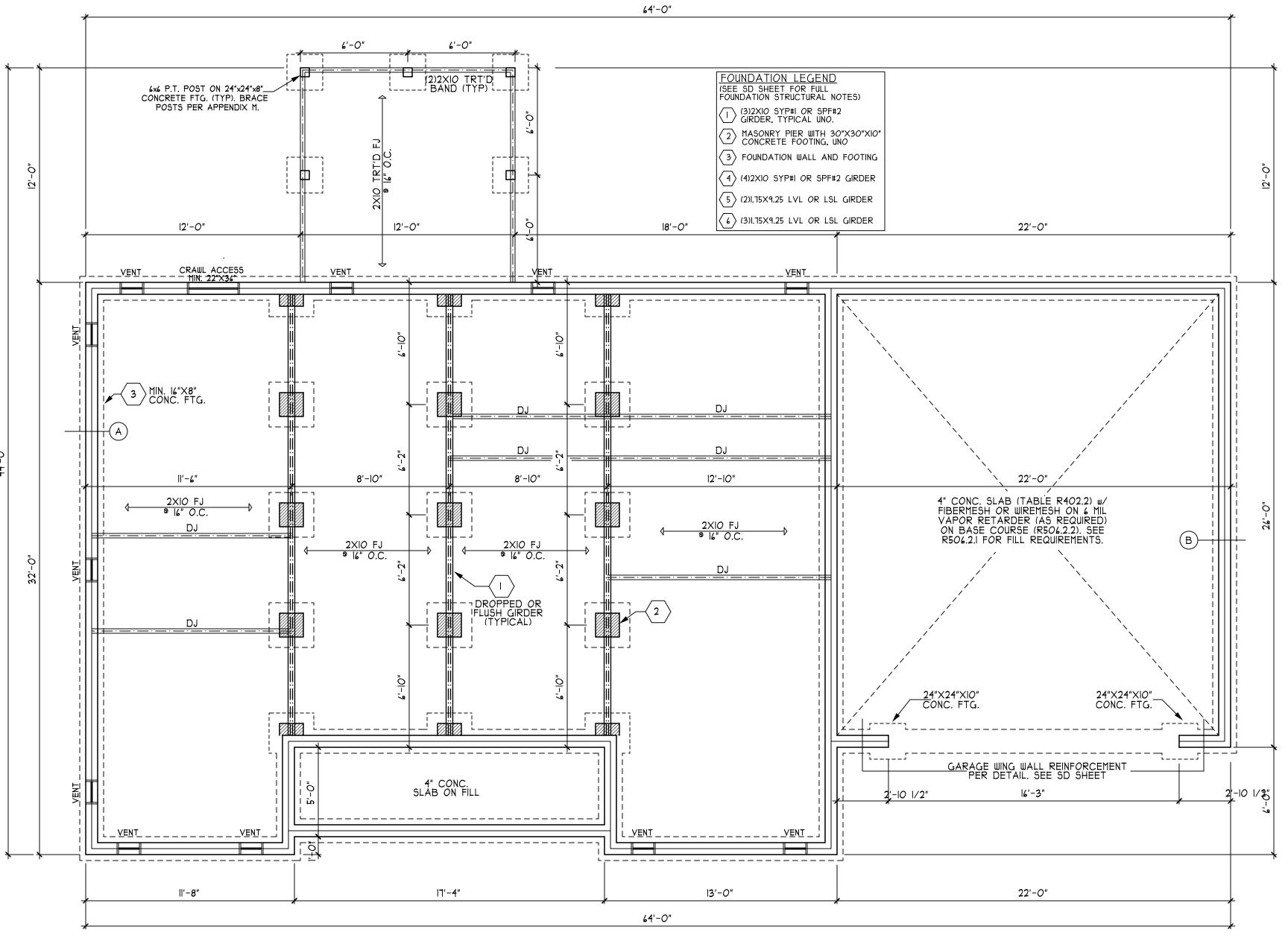
FILE: 020320

SCALE 1/4" = 1'-0"

PR0]

MANG.

JRT



DAMP PROOFING

FOR DAMP PROOFING \$
WATER PROOFING REFER TO
SECTION 405 \$ 406 IN 2018
EDITION NC RES. CODES

FND VENTS

1240/150 = 8.3 SQ. FT. REQ'D 8.3/.88 = 9 VENTS *WITH VAPOR BARRIOR

*ONE VENT MUST BE WITHIN 3'-O" OF EVERY CRNR. REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

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

"THE DAKOTA II

#1240

FIRST FLOOR = 1240
FRONT PORCH = 86
PATIO/WOOD DECK = 144
GARAGE = 572

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

H SQUARED HOME DESIGN, INC.

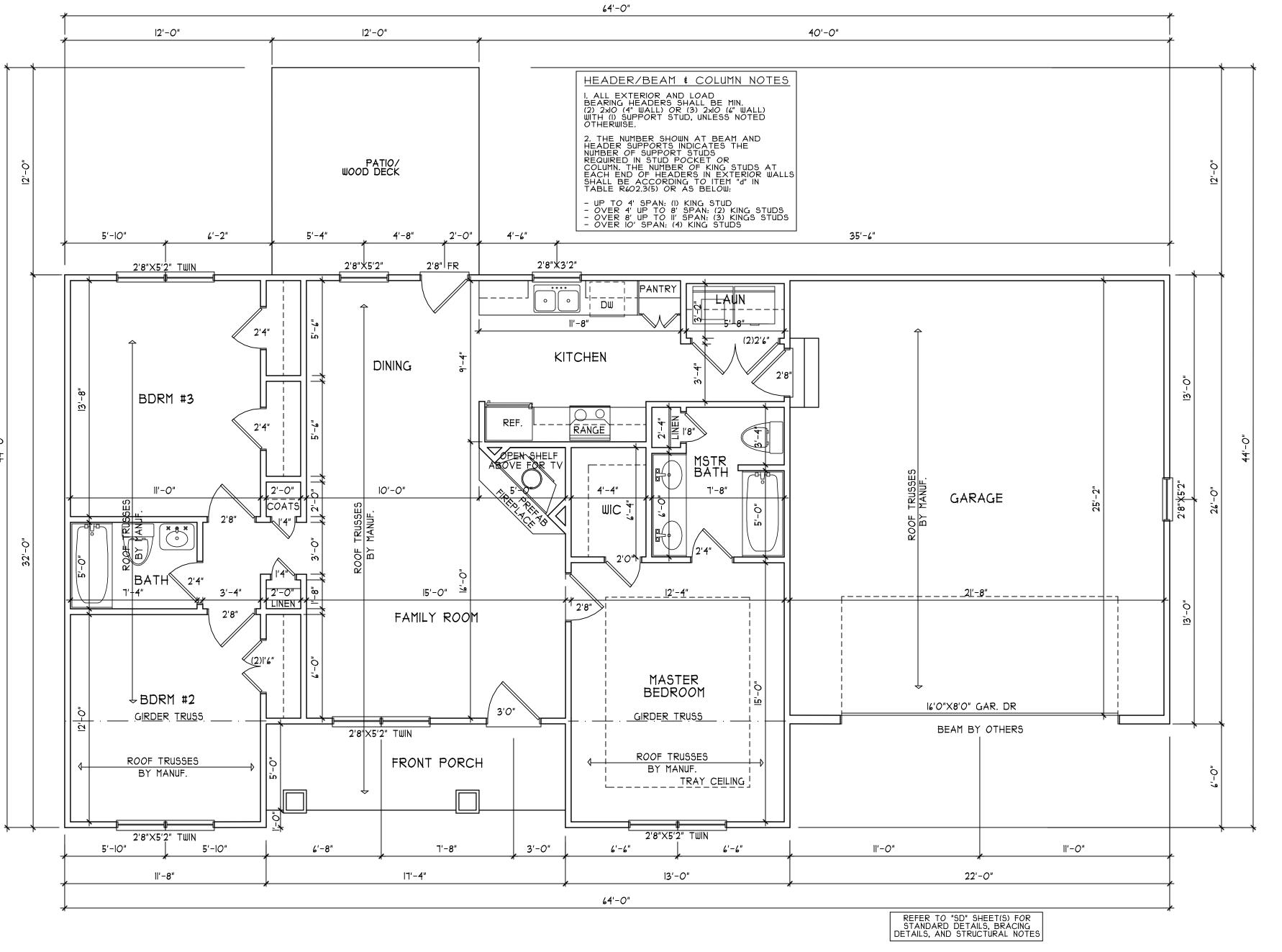
ANY DEVIATION OF THE SPECIFIED MEASUREMENTS OR DIMENSIONS VOIDS H SQUARED HOME DESIGN. INC. S LIABILITY.

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

DATE: 02/25/2020

I STORY

FILE: 020320



FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

"THE DAKOTA II"
(RIGHT HAND GARAGE)
JRT MANG. PROP.

FIRST FLOOR = 1240
FRONT PORCH = 86
PATIO/WOOD DECK = 144
GARAGE = 572

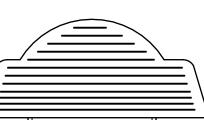
HEATHER HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403

H SQUARED HOME DESIGN, INC.

C DEVIATION OF THE
COFFIED MEASUREMENTS
COFFIED MEASUREMENTS
COFFIED HOME DESIGN,
S LIABILITY.
PLAN HAS BEEN DRAWN
COCORDANCE WITH NORTH
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COLORDANCE STATE RESIDENTIAL

DATE: 02/25/2020 | STORY

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PROP.

"THE DAKOTA

MANG.

JRT

#1240

= 1240 = 86 = 144 = 572 SQUARE FOOTAGE:
FIRST FLOOR =
FRONT PORCH =
PATIO/WOOD DECK =
GARAGE =

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

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

DATE:

02/25/2020

I STORY

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.

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

ROOF PLAN

SCALE 1/4" = 1'-0"

STRUCTURAL NOTES

1) 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 CONNECTION 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 (PSF)	DEAD LOAD (PSF)	DEFLECTION (LL)
	ROOMS OTHER THAN SLEEPING ROOMS	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	10	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 MAXMUM 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.

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 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=I.9xI0 PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0xI0 PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=I.55xI0 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-34. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (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 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'-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.

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 7:12 PITCH 21 PSF - 1:12 TO 12:12 PITCH WALLS:

24.1 PSF - WALLS

HEADER/BEAM € COLUMN NOTES ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN.

(2) 2xIO (4" WALL) OR (3) 2xIO (6" WALL)

WITH (1) SUPPORT STUD, UNLESS NOTED 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

FOUNDATION STRUCTURAL NOTES: NC (2018 NCRC): Wind: 115-120 MPH

 $\langle 1 \rangle$ (3) 2xIO SYP #2 OR SPF#2 GIRDER, TYPICAL UNO.

(2) CONCRETE BLOCK PIER SIZE SHALL BE: SIZE HOLLOW MASONRY SOLID MASONRY 8 x 16 UP TO 32" HIGH UP TO 5'-O" HIGH UP TO 48" HIGH UP TO 9'-O" HIGH UP TO 64" HIGH UP TO 12'-0" HIGH 16 x 16 UP TO 96" HIGH 24×24 WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.

3 WALL FOOTING AS FOLLOWS: DEPTH: 8" - UP TO 2-I/2 STORY 10" - 3 STORY

> SIDING (OR EQUAL) - 16" - UP TO 2-1/2 STORY - 20" - 3 STORY BRICK VENEER - 16" - 1 STORY - 20" - 2 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.I.I (I 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.

- 24" - 3 STORY

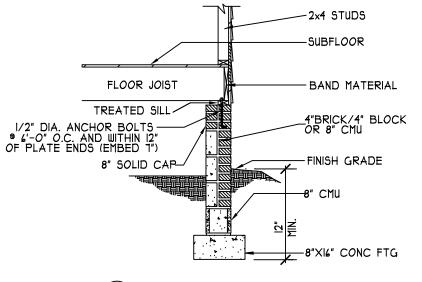
(4) (4) 2×10 SYP#2 OR SPF#2 GIRDER.

(5) (2) 1.75×9.25 LVL OR LSL GIRDER

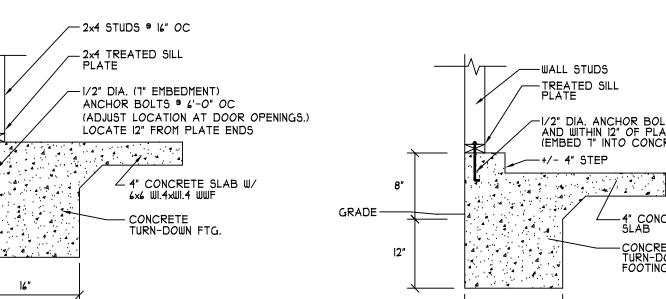
(6) (3) 1.75X9.25 LVL OR LSL GIRDER

7. "■" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER, SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL.

8. ABBREVIATIONS: "SJ" = SINGLE JOIST "DJ" = DOUBLE JOIST "TJ" = TRIPLE JOIST







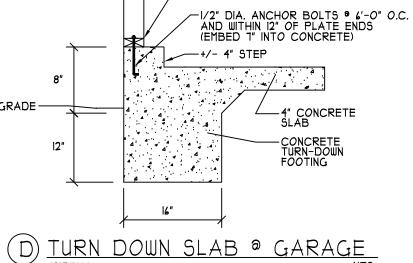
8" SOLID CAP

OR 8" CMU

GRADE

4"BRICK/4" BLOCK

TURN DOWN SLAB FOOTING



8" FOUNDATION

GARAGE SLAB

1/2" DIA. ANCHOR BOLTS % 6'-O" O.C. AND WITHIN 12" OF PLATE ENDS (EMBED 1")

- 4" CONC. SLAB WITH FIBERMESH OR WIREMESH ON 6 MIL. VAPOR BARRIER ON 4" CRUSHED STONE

-EXPANSION JOINT

— 8" FOUNDATION WALL

— SEE FOUNDATION PLAN FOR FOOTING SIZE

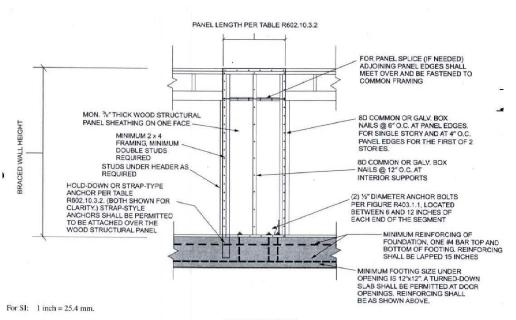


FIGURE R602.10.3.2 ALTERNATE BRACED WALL PANEL

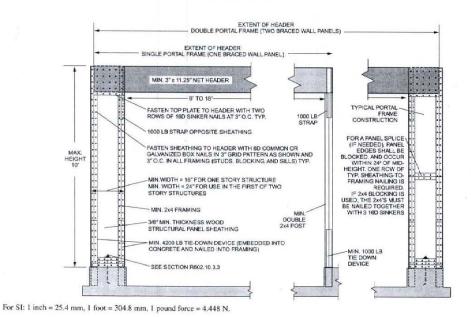
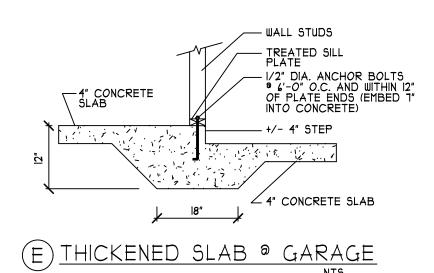
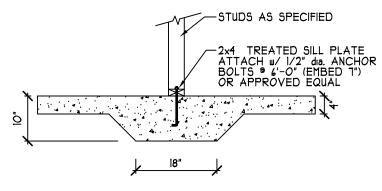


FIGURE R602.10.3.3
METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS



TYPICAL THICKENED SLAB



OPTIONAL WALL PLATE MAY COUNTERSINK BOLT IN OPTIONAL PLATE TREATED SILLPLATE GARAGE SLAB OVER GRAVEL AS SPECIFIED OPTIONAL BRICK %" THREADED ROD WITH 2" CUT WASHERS OR SIMPSON "SET OR CONCRETE FOOTING 3" CONC. COVER (TYP) SECTION ELEVATION

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

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BUILDIN

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SHEET

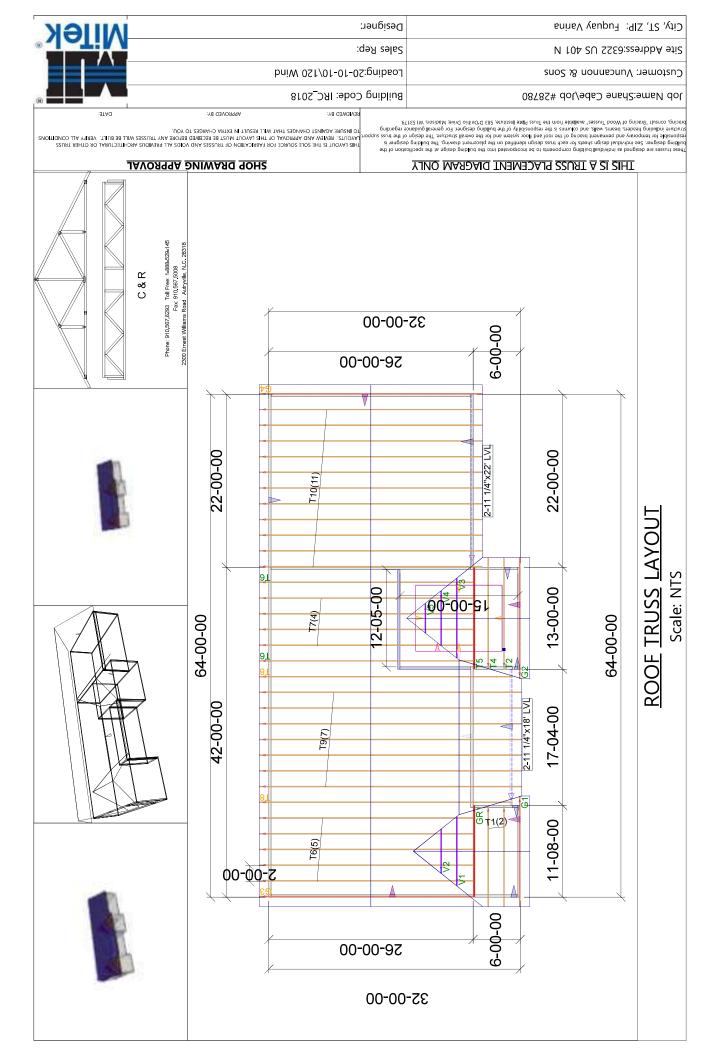
HEATHER HALL
35 HEATHERSTONE C'
BENSON NC 27504
(919) 207-1403 165

SQUAREI HOME DESIGN,

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

DATE:

FILE:



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COD Duilding Co	marks Asstracilla NO			Job Reference (optional) 8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Jul 8 09:42:11 2025 Page 1						
Car building Su	pply, Autryville NC									GeUlAtAsrEiX0Evlz_ArA
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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 0.13 BC 0.06 WB 0.10 Matrix-R	DEFL. Vert(LL) - Vert(CT) -	in (I -0.01 -0.01 -0.00	loc) 9 9 10	I/defI n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 75	GRIP 244/190 I b FT = 20%
LUMBER- TOP CHORD 2	x4 SP No.2			BRACING- TOP CHOR	D S	tructu	ıra l wood	sheathing	directly applied	or 6-0-0 oc purlins,

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

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing.

Vuncannon&Sons\Shane Cabe

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 11-8-0.

(lb) - Max Horz 16=135(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12,

11

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

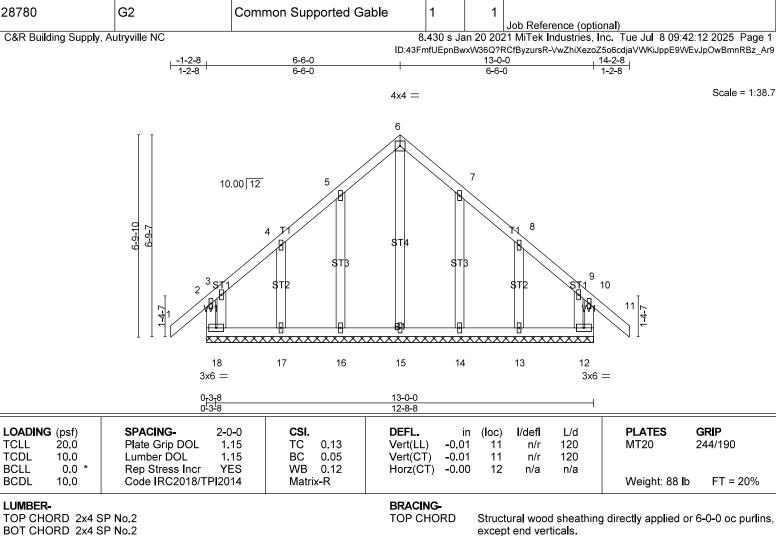
NOTES-

Job

Truss

Truss Type

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.
- 11) 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.



Qtv

Ply

TOP CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 2x4 SP No.3 OTHERS

BOT CHORD

except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing.

Vuncannon&Sons\Shane Cabe

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 13-0-0.

(lb) - Max Horz 18=144(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 18, 12, 16, 17, 14, 13 Max Grav All reactions 250 lb or less at joint(s) 18, 12, 15, 16, 17, 14,

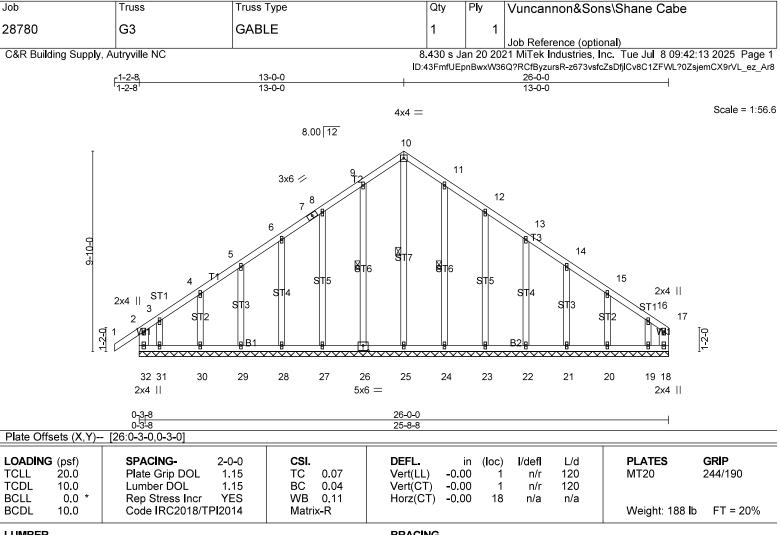
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Job

Truss

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- 1) Unbalanced roof live loads have been considered for this design.
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- 11) 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.



TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 2400F 2.0E 2x6 SP No.1 WEBS 2x4 SP No.3 **OTHERS**

BRACING-

TOP CHORD

BOT CHORD WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing. 10-25, 9-26, 11-24 1 Row at midpt

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 26-0-0.

(lb) - Max Horz 32=179(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 26, 27, 28, 29, 30, 24, 23,

22, 21, 20, 19 except 32=-120(LC 6), 18=-123(LC 7), 31=-117(LC 5)

Max Grav All reactions 250 lb or less at joint(s) 18, 25, 26, 27, 28, 29,

30, 31, 24, 23, 22, 21, 20, 19 except 32=278(LC 14)

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

NOTES-

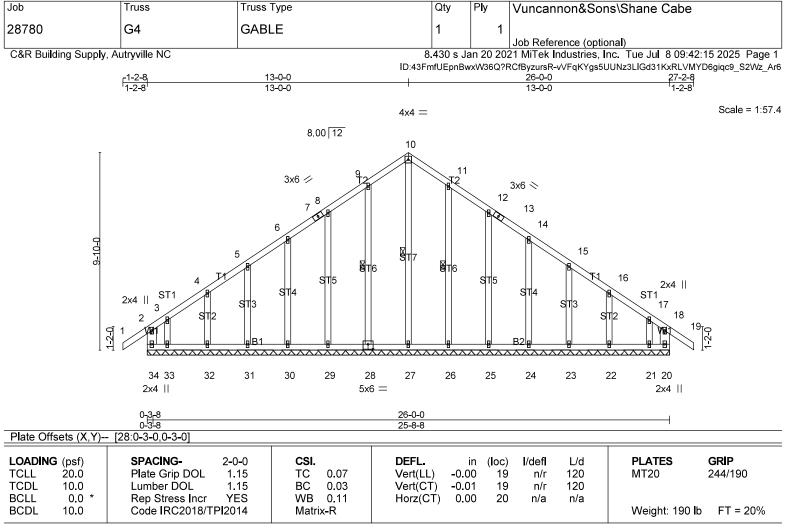
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 27 28, 29, 30, 24, 23, 22, 21, 20, 19 except (jt=lb) 32=120, 18=123, 31=117.
- 11) 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. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Vuncannon&Sons\Shane Cabe
28780	G3	GABLE	1	1	Job Reference (optional)

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Jul 8 09:42:14 2025 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-RIhS7CfEKALWLvm5iwYonkuAmyCyNDSgOVFuW4z_Ar7



TOP CHORD 2x4 SP 2400F 2.0E BOT CHORD 2x4 SP 2400F 2.0E WEBS 2x6 SP No.1 OTHERS 2x4 SP No.3 BRACING-

TOP CHORD

BOT CHORD WEBS Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 10-27, 9-28, 11-26

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 26-0-0.

(lb) - Max Horz 34=-183(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 20, 28, 29, 30, 31, 32, 26, 25, 24, 23, 22, 21 except 34=-124(LC 6), 33=-110(LC 5)

Max Grav All reactions 250 lb or less at joint(s) 20, 27, 28, 29, 30, 31, 32, 33, 26, 25, 24, 23, 22, 21 except 34=257(LC 14)

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

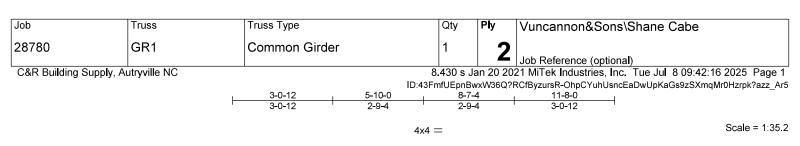
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 28, 29, 30, 31, 32, 26, 25, 24, 23, 22, 21 except (jt=lb) 34=124, 33=110.
- 11) 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. Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Vuncannon&Sons\Shane Cabe
28780	G4	GABLE	1	1	
					Job Reference (optional)

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Jul 8 09:42:15 2025 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-vVFqKYgs5UUNz3LIGd31KxRLVMYD6giqc9_S2Wz_Ar6



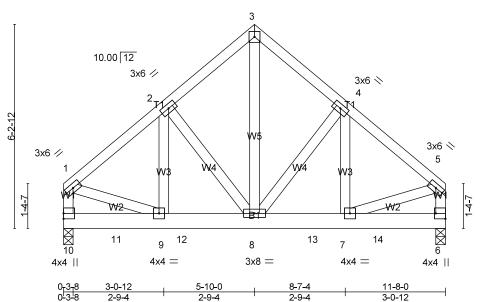


Plate Off	sets (X,Y)	- [6:Edge,0-3-8]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL	20.Ó	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.02	`7 - 8	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.04	7 - 8	>999	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.01	6	n/a	n/a			
BCDI	10.0	Code IRC2018/T	PI2014	Matri	y_MS	Wind(LL)	-0.00	8	>999	240	Weight: 181 In	FT = 20%	

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3 **BRACING-**

TOP CHORD

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

except end verticals.

BOT CHORD

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

REACTIONS. (lb/size) 10=3034/0-3-8 (min. 0-1-13), 6=2873/0-3-8 (min. 0-1-11) Max Horz 10=-112(LC 6)

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

TOP CHORD 1-2=-2774/0, 2-3=-2207/0, 3-4=-2207/0, 4-5=-2794/0, 1-10=-2533/0,

5-6=-2561/0

9-12=0/2080, 8-12=0/2080, 8-13=0/2096, 7-13=0/2096

WEBS 3-8=0/2585, 4-8=-700/0, 4-7=0/794, 2-8=-675/0, 2-9=0/762, 1-9=0/2019,

5-7=0/2064

NOTES-

BOT CHORD

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
 - Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 999 lb down at 1-7-4, 999 lb down at 3-7-4, 999 lb down at 5-7-4, and 999 lb down at 7-7-4, and 999 lb down at 9-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

COAD GASE(\$) PSHandard

Job	Truss	Truss Type	Qty	Ply	Vuncannon&Sons\Shane Cabe
28780	GR1	Common Girder	1	2	Job Reference (optional)

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Jul 8 09:42:16 2025 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-OhpCYuhUsncEaDwUpKaGs9zSXmqMr0Hzrpk?azz_Ar5

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 6-10=-20

Concentrated Loads (lb)

Vert: 8=-999(F) 11=-999(F) 12=-999(F) 13=-999(F) 14=-999(F)

Job	Truss	Truss Type	Qty	Ply	Vuncannon&Soi	ns\Shane Cabe	e
28780	T1	Common	2	1	Job Reference (option	ona l)	
C&R Building Supply, A	Autryville NC	1	8.430 s	Jan 20 20	21 MiTek Industries, I	Inc. Tue Jul 8 09:	42:17 2025 Page 1
,	•	I	D:43FmfUEp	nBwxW36Q	?RCfByzursR-stMalEi6d5	5k5CNVgN25VPMWft	
	 	3-0-12 5-10-0 3-0-12 2-9-4	8-7-4 2-9-4	1 +	11-8-0 3-0-12	12-10-8 1-2-8	
		3-0-12 2-3-4	2-0-	7	3-0-12	1-2-0	
		4x-	ı =				Scale = 1:35.2
	6-3-0 6-3-12 1-4-7	10.00 12 4x4 // 2 1 W2 W3	l vyr	33	4x4 \\ 4 1.5x4	= 5 6 <u>7-4-1</u>	
	9 4	x4 = 3xi	=		4x4 =		
	0 ₇ 3 ₇ 8 0-3-8	5-10-0 5-6-8		11-8 5-10	3-0		
LOADING (psf) TCLL 20.0		0-0 CSI. DE .15 TC 0.20 Ve		in (l oc) I/defl L/d 0 >999 360	PLATES MT20	GRIP 244/190

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

W1: 2x4 SP No.3

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

BRACING-

Vert(CT)

Horz(CT)

Wind(LL)

TOP CHORD **BOT CHORD**

-0.03

0.00

0.00

Structural wood sheathing directly applied, except end

verticals.

7**-**8

8

Rigid ceiling directly applied.

240

n/a

240

>999

>999

n/a

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Weight: 79 lb

FT = 20%

REACTIONS.

(lb/size) 9=450/0-3-8 (min. 0-1-8), 7=541/0-3-8 (min. 0-1-8)

1.15

YES

Max Horz 9=-128(LC 6) Max Uplift7=-19(LC 8)

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

TOP CHORD 2-3=-357/50, 3-4=-355/49 BOT CHORD 8-9=0/310, 7-8=0/262 2-9=-342/0, 4-7=-361/0 **WEBS**

NOTES-

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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

BC

WB

Matrix-AS

0.13

0.12

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

10.00 12 4x4 // 4x4 // 1.5x4 1.5x4 1	28780	T2	Common	1	1	Ioh Refere	nce (ontion	nal)	
10.43FmfUEpnBwxW36Q?RCfbyzursR-K4wyyaikOPsyqX4sxldlya3qoaXwJ0YGJ7D6frz_ 3-4-12	C&R Building Supply. A	C&R Building Supply. Autryville NC					lustries. Inc	c. Tue Jul 8 09:42	:18 2025 Page 1
$3.4-12 \qquad 3-1-4 \qquad 3-4-12 \qquad 1-2-8$ $4x4 = \qquad $		····· y ····· · · · ·		ID:43FmfUE			sR-K4wyyaik	oPsyqX4sxlclya3qoa	
$4x4 = $ $10.00 \boxed{12}$ $4x4 \Rightarrow $ $5x4 \Rightarrow $ $5x4 \Rightarrow $ $6x4 \Rightarrow $ $7x4 \Rightarrow $ $8x4 \Rightarrow$		<u> </u>	3-4-12 6-6-0	9-7-4		13-0-0) 1	4-2-8	
10.00 12 4x4 // 4x4 // 1.5x4 1.5x4 1		·	3-4-12 3-1-4	3-1-4	·	3-4-12	2 1	1-2-8	
10.00 12 4x4 4 4x4 4 1.5x4 1 1 1 1 1 1 1 1 1 1 1			2	x4 =					Scale = 1:38.3
		1.5x4	10.00 12 4x4 // 2 T1	N4 W3		4	1 1 1 1 1 1 1 1 1 1	5	
8 8 7		⊠ 9		8			⊠ 7		
4x4 = 3x8 = 4x4 =			3	5x8 =					
0 ₁ 3 ₇ 8 6-6-0 13-0-0 0-3-8 6-2-8 6-6-0		0 _T 3 _T 8 0-3-8	6-6-0 6-2-8	+	13-0 6-6-	-0 -0			
LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.25 Vert(LL) -0.02 8-9 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.16 Vert(CT) -0.05 7-8 >999 240 BCLL 0.0 * Rep Stress Incr YES WB 0.17 Horz(CT) 0.00 7 n/a n/a	TCLL 20.0 TCDL 10.0 BCLL 0.0 *	Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr Y	15 TC 0.25 V 15 BC 0.16 V ES WB 0.17 H	ert(LL) -0.0 ert(CT) -0.0 orz(CT) 0.0	2 8-9 5 7-8 0 7	>999 >999 n/a	360 240 n/a	MT20	244/190
BCDL 10.0 Code IRC2018/TPI2014 Matrix-AS Wind(LL) 0.00 8 >999 240 Weight: 87 lb FT = 20%	BCDL 10.0	Code IRC2018/TPI20			8 0	>999	240	Weight: 87 lb	FT = 20%

Qty

LUMBER-

Job

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

W1: 2x4 SP No.3

Truss

Truss Type

BRACING-

TOP CHORD

Structural wood sheathing directly applied, except end verticals.

Vuncannon&Sons\Shane Cabe

BOT CHORD Rigid ceiling directly applied.

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

(lb/size) 9=504/0-3-8 (min. 0-1-8), 7=594/0-3-8 (min. 0-1-8)

Max Horz 9=-138(LC 6) Max Uplift7=-18(LC 8)

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

TOP CHORD 2-3=-407/54, 3-4=-406/53 BOT CHORD 8-9=0/355, 7-8=0/307

WEBS 3-8=-22/286, 2-9=-384/0, 4-7=-401/0

NOTES-

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

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
- 6) 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.
- 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.

Job	Truss	Truss Type	Qty	Ply	Vuncannon&Sor	ns∖Shane Cabe	e		
28780	T4	Roof Special	1	1					
		•			Job Reference (option				
C&R Building Suppl	ly, Autryville NC				021 MiTek Industries, I				
		2-3-8 6-6-0	ID:43FmfUEpnBwxW36Q?RCfByzursR-oGULAwjN9i_oRhf3VT8_Unb1CzoD2UxQXmzfBHz_Ar						
		2-3-8 6-6-0 2-3-8 4-2-8	4-2	- 8	13-0-0 2-3-8 1-	 -2-8 -2-8			
			4x4 = 3				Scale = 1:38.3		
		10.00 12							
	3x6 //	3x8 // P1	W4	73	3x8 \ 4 3x6 \ B2 \ W2	Ţ			
	13-13-13	11 3x6 =	10 3x8 =	3x6	9 = B1 8 7	1-6-0			
	1.5x4) 3XO —			3x6 = 1.5x4				
	0 ₇ 3 ₇ 8 0-3-8	2-3-8 6-6-0 2-0-0 4-2-8	10-8	3-8 -8	13-0-0 2-3-8				
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 CSI. 1.15 TC 0.08 1.15 BC 0.48		in (loc .02 10-11	999 360	PLATES MT20	GRIP 244/190		

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.07

-0.01 10-11

verticals.

n/a

Rigid ceiling directly applied.

>999

n/a

240

Structural wood sheathing directly applied, except end

MiTek recommends that Stabilizers and required cross

bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FT = 20%

Weight: 84 lb

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP 2400F 2.0E

0.0 *

10.0

BOT CHORD 2x4 SP 2400F 2.0E *Except*

B2: 2x4 SP No.2

WEBS 2x4 SP No.2 *Except*

W1: 2x4 SP No.3

Rep Stress Incr

Code IRC2018/TPI2014

REACTIONS. (lb/size) 13=504/0-3-8 (min. 0-1-8), 7=594/0-3-8 (min. 0-1-8)

Max Horz 13=-138(LC 6) Max Uplift7=-18(LC 8)

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

YES

TOP CHORD 1-2=-485/7, 2-3=-497/24, 3-4=-496/24, 4-5=-474/14, 1-13=-544/0,

5-7=-632/18

BOT CHORD 10-11=0/546, 9-10=0/456

WEBS 3-10=0/313, 1-12=0/370, 5-8=0/376

NOTES-

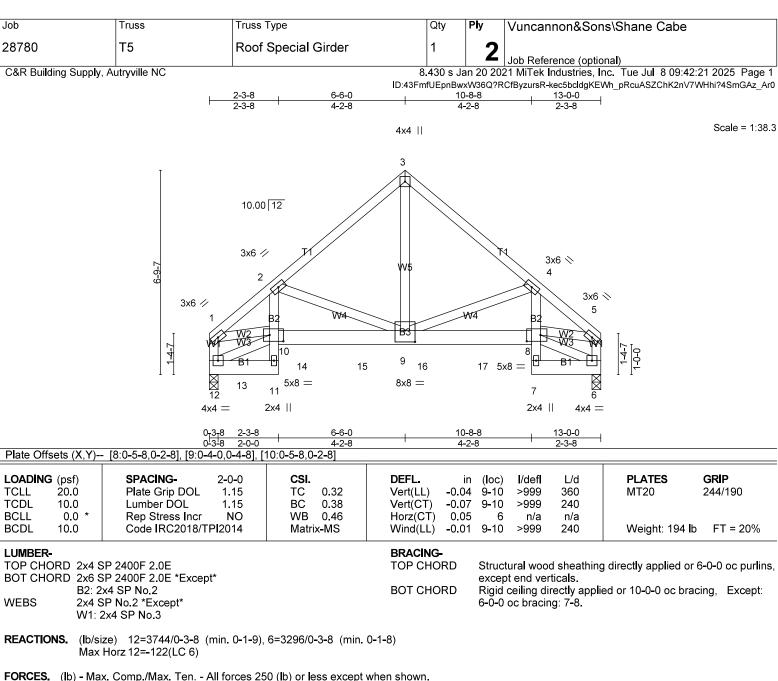
1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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

WB 0.09

Matrix-AS

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



1-2=-4668/0, 2-3=-3217/0, 3-4=-3216/0, 4-5=-4782/0, 1-12=-3170/0, TOP CHORD

5-6=-3245/0

BOT CHORD 10-11=0/455, 2-10=0/1307, 10-14=0/3677, 14-15=0/3677, 9-15=0/3677,

9-16=0/3744, 16-17=0/3744, 8-17=0/3744, 4-8=0/1405

WEBS 3-9=0/3752, 4-9=-1429/0, 2-9=-1358/0, 1-10=0/3402, 5-8=0/3542

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 oc, 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) 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.

Job	Truss	Truss Type	Qty	Ply	Vuncannon&Sons\Shane Cabe
28780	Т5	Roof Special Girder	1	2	Job Reference (optional)

C&R Building Supply, Autryville NC

8.430 s Jan 20 2021 MiTek Industries, Inc. Tue Jul 8 09:42:21 2025 Page 2 ID:43FmfUEpnBwxW36Q?RCfByzursR-kec5bdldgKEWh pRcuASZChK2nV7WHhi?4SmGAz Ar0

NOTES-

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1000 lb down at 1-0-12, 1006 lb down at 3-0-12, 1006 lb down at 5-0-12, 1006 lb down at 7-0-12, and 1006 lb down at 9-0-12, and 999 lb down at 10-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

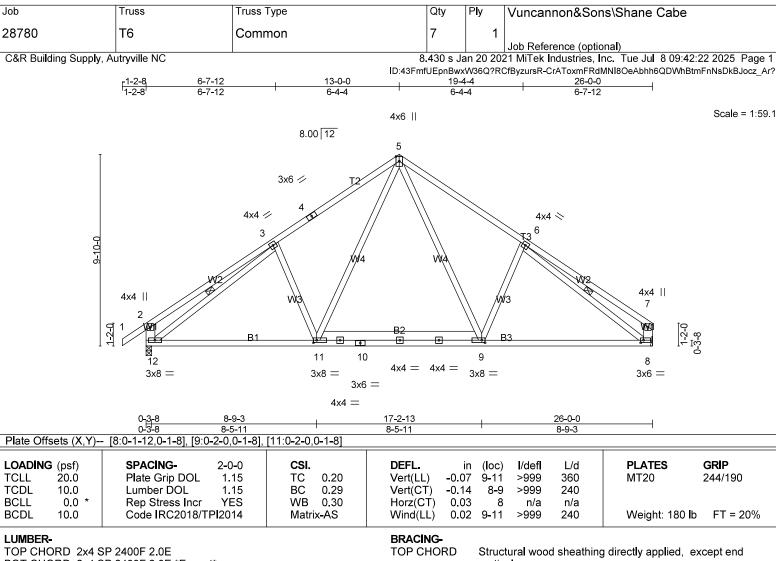
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 11-12=-20, 8-10=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 8=-999(B) 13=-1000(B) 14=-1006(B) 15=-1006(B) 16=-1006(B) 17=-1006(B)



BOT CHORD 2x4 SP 2400F 2.0E *Except*

B2: 2x6 SP No.1

WEBS 2x4 SP No.2 *Except*

W1: 2x6 SP No 1

BOT CHORD WEBS

Rigid ceiling directly applied.

1 Row at midpt 3-12, 6-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=1110/0-3-8 (min. 0-1-8), 8=1019/Mechanical

Max Horz 12=179(LC 7)

Max Uplift12=-8(LC 8)

Max Grav 12=1123(LC 13), 8=1042(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-433/79, 3-4=-1230/47, 4-5=-1135/86, 5-6=-1235/87, 6-7=-425/68,

2-12=-457/93, 7-8=-361/54

BOT CHORD 11-12=0/1104, 10-11=0/775, 9-10=0/783, 8-9=0/1013

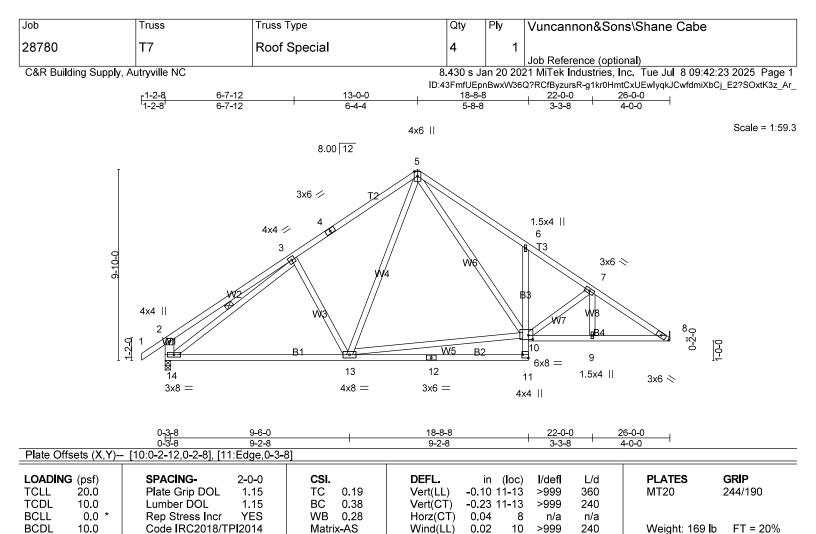
5-9=-7/572, 6-9=-274/122, 5-11=-6/563, 3-11=-264/121, 3-12=-1000/0, **WEBS**

6-8=-1010/0

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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) 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
- 7) 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.
- 8) 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.



TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP 2400F 2.0E *Except*

B3: 2x4 SP No.2

WEBS 2x4 SP No.2 *Except*

W1: 2x6 SP No 1

BRACING-

TOP CHORD

verticals.

BOT CHORD WEBS

Rigid ceiling directly applied.

1 Row at midpt

3-14 MiTek recommends that Stabilizers and required cross

Structural wood sheathing directly applied, except end

bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 8=1026/Mechanical, 14=1117/0-3-8 (min. 0-1-8)

Max Horz 14=-167(LC 6) Max Uplift14=-8(LC 8)

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

TOP CHORD 2-3=-438/72, 3-4=-1133/38, 4-5=-1021/77, 5-6=-1442/111, 6-7=-1414/19,

7-8=-1712/0. 2-14=-462/89

BOT CHORD 13-14=0/963, 6-10=-286/96, 9-10=0/1407, 8-9=0/1407

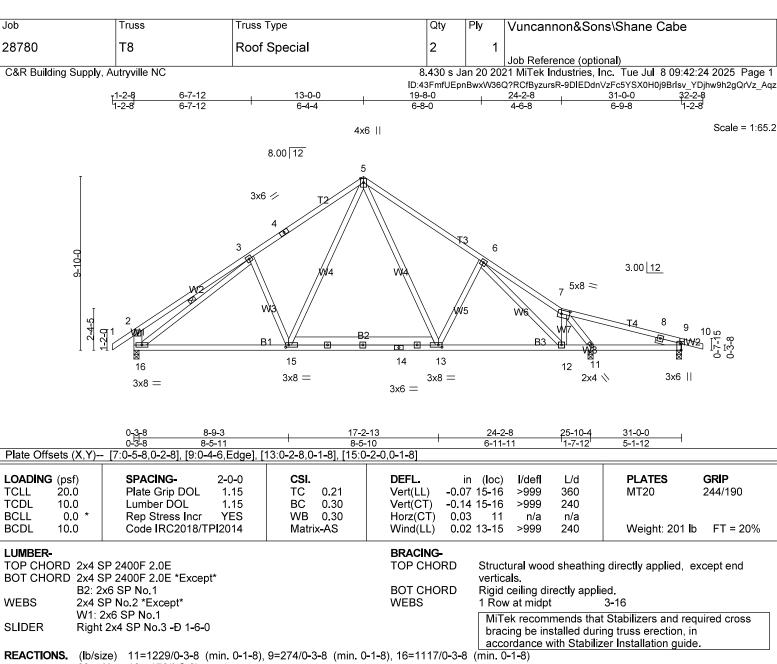
WEBS 3-13=-261/119. 5-13=0/430. 10-13=0/555. 5-10=-41/736. 7-10=-338/19.

3-14=-890/0

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14.
- 7) 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.
- 8) 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.



Max Horz 16=-176(LC 6)

Max Uplift9=-38(LC 5), 16=-9(LC 8)

Max Grav 11=1245(LC 14), 9=288(LC 20), 16=1128(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-438/80, 3-4=-1235/47, 4-5=-1142/86, 5-6=-1232/86, 6-7=-1084/54,

2-16=-461/94

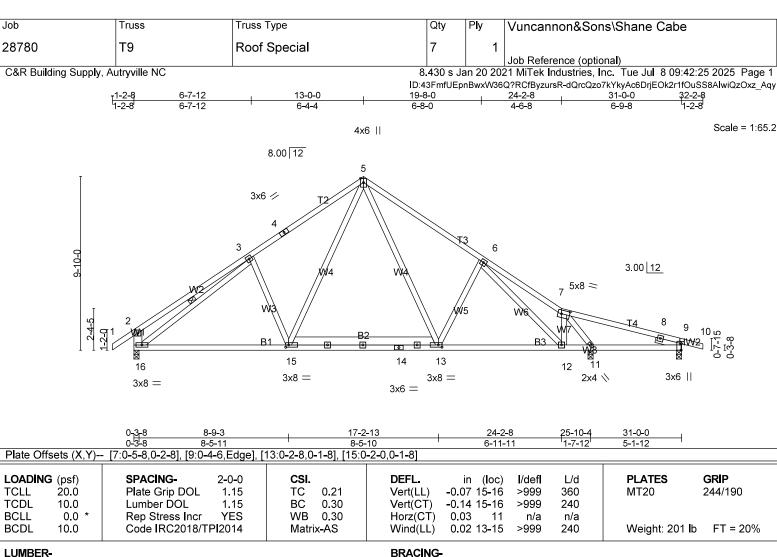
BOT CHORD 15-16=0/1110, 14-15=0/790, 13-14=0/781, 12-13=0/1022, 11-12=0/860 3-15=-263/119, 5-15=-1/562, 5-13=-5/554, 6-13=-284/111, 6-12=-341/0, **WEBS**

7-12=0/252, 7-11=-1343/0, 3-16=-998/0

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=31ft; 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) All plates are 4x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 16.
- 7) 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.
- 8) 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.



TOP CHORD 2x4 SP 2400F 2.0E

2x4 SP 2400F 2.0E *Except* BOT CHORD

B2: 2x6 SP No.1

WEBS 2x4 SP No.2 *Except*

W1: 2x6 SP No.1

Right 2x4 SP No.3 -D 1-6-0 SLIDER

BOT CHORD

WEBS

TOP CHORD

Structural wood sheathing directly applied, except end

verticals.

Rigid ceiling directly applied.

1 Row at midpt 3-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

(lb/size) 11=1229/0-3-8 (min. 0-1-8), 9=274/0-3-8 (min. 0-1-8), 16=1117/0-3-8 (min. 0-1-8)

Max Horz 16=-176(LC 6)

Max Uplift9=-38(LC 5), 16=-9(LC 8)

Max Grav 11=1245(LC 14), 9=288(LC 20), 16=1128(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-438/80, 3-4=-1235/47, 4-5=-1142/86, 5-6=-1232/86, 6-7=-1084/54,

2-16=-461/94

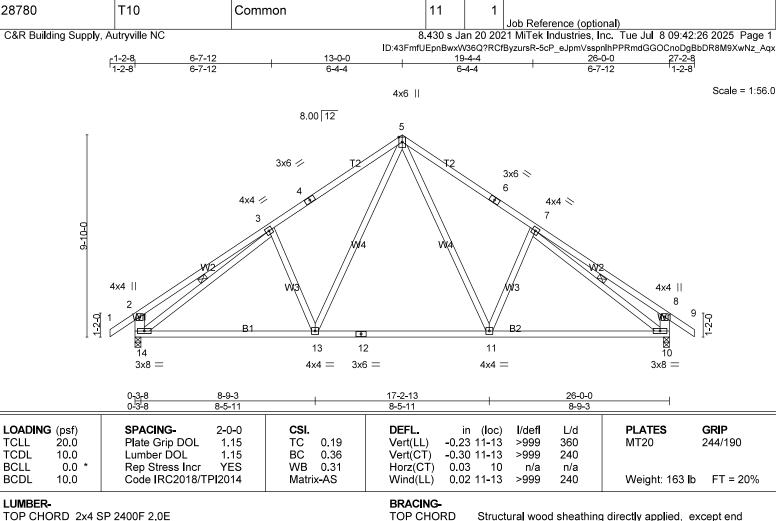
BOT CHORD 15-16=0/1110, 14-15=0/790, 13-14=0/781, 12-13=0/1022, 11-12=0/860 3-15=-263/119, 5-15=-1/562, 5-13=-5/554, 6-13=-284/111, 6-12=-341/0, **WEBS**

7-12=0/252, 7-11=-1343/0, 3-16=-998/0

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=31ft; 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) All plates are 4x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 16.
- 7) 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.
- 8) 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.



Qtv

Ply

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

2x4 SP No.2 *Except* W1: 2x6 SP No.1

Truss

TOP CHORD

BOT CHORD

WEBS

verticals.

Vuncannon&Sons\Shane Cabe

Rigid ceiling directly applied.

1 Row at midpt 3-14, 7-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.

Job

(lb/size) 14=1108/0-3-8 (min. 0-1-8), 10=1108/0-3-8 (min. 0-1-8)

Truss Type

Max Horz 14=183(LC 7)

Max Uplift14=-8(LC 8), 10=-8(LC 8)

Max Grav 14=1121(LC 13), 10=1121(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-431/76, 3-4=-1241/48, 4-5=-1146/87, 5-6=-1146/87, 6-7=-1241/48, TOP CHORD

7-8=-431/76, 2-14=-458/92, 8-10=-458/92

BOT CHORD 13-14=0/1120, 12-13=0/797, 11-12=0/797, 10-11=0/1023

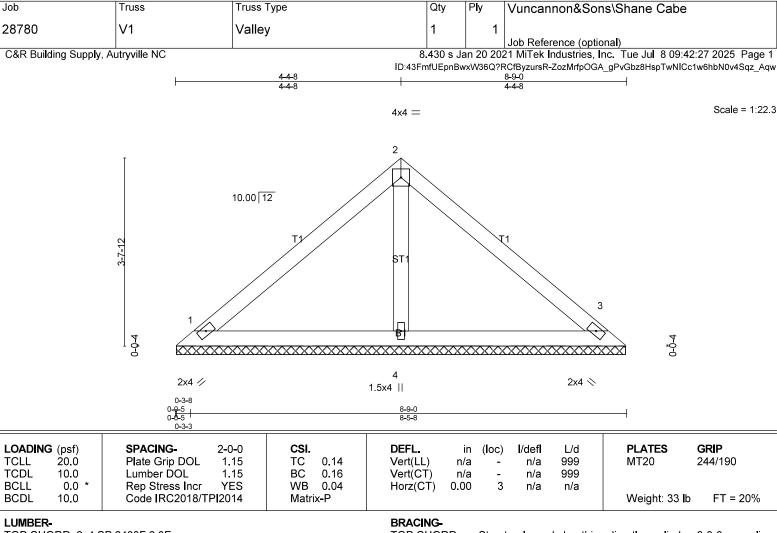
WEBS 5-11=-6/572, 7-11=-264/120, 5-13=-6/571, 3-13=-264/120, 3-14=-1041/0,

7-10=-1041/0

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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) 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 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 100 lb uplift at joint(s) 14, 10.
- 6) 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.
- 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.



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

OTHERS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=188/8-8-6 (min. 0-1-8), 3=188/8-8-6 (min. 0-1-8), 4=259/8-8-6 (min. 0-1-8)

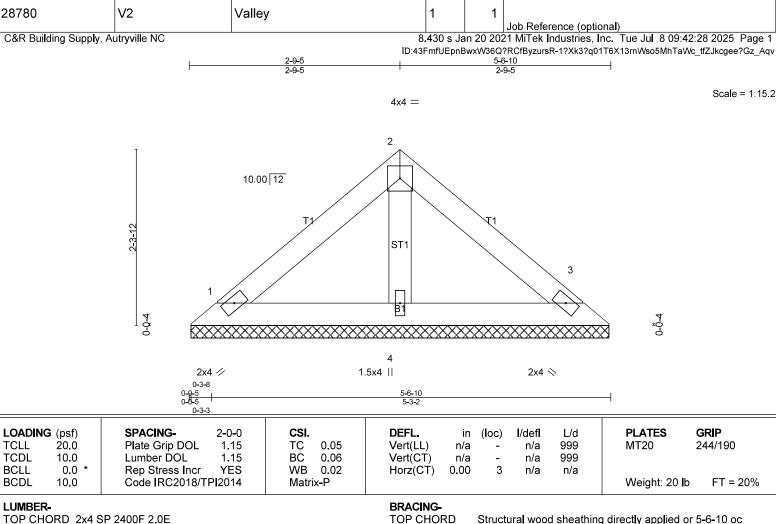
Max Horz 1=-59(LC 6)

Max Uplift1=-17(LC 8), 3=-17(LC 8)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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, 3.
- 7) 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.



Qtv

Ply

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

OTHERS 2x4 SP No.3

Vuncannon&Sons\Shane Cabe

purlins.

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

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=112/5-6-0 (min. 0-1-8), 3=112/5-6-0 (min. 0-1-8), 4=155/5-6-0 (min. $\overline{0-1-8}$)

Truss Type

Max Horz 1=35(LC 7)

Max Uplift1=-10(LC 8), 3=-10(LC 8)

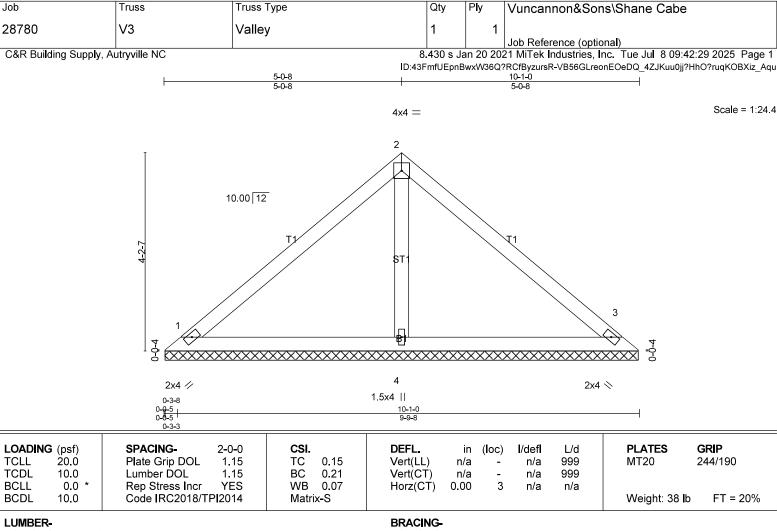
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

Job

Truss

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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, 3.
- 7) 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.



TOP CHORD 2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

(lb/size) 1=205/10-0-6 (min. 0-1-8), 3=205/10-0-6 (min. 0-1-8), 4=333/10-0-6 (min. 0-1-8) REACTIONS.

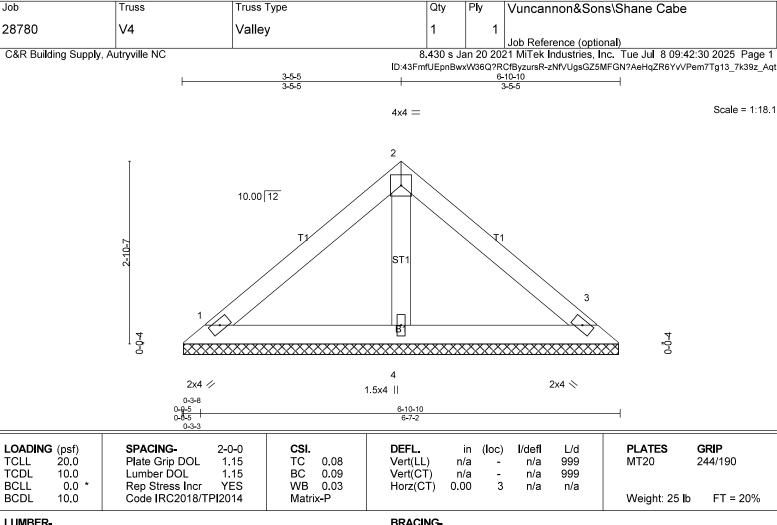
Max Horz 1=-69(LC 6)

Max Uplift1=-12(LC 8), 3=-12(LC 8)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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, 3.
- 7) 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.



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

OTHERS 2x4 SP No.3 **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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=144/6-10-0 (min. 0-1-8), 3=144/6-10-0 (min. 0-1-8), 4=198/6-10-0 (min. 0-1-8)

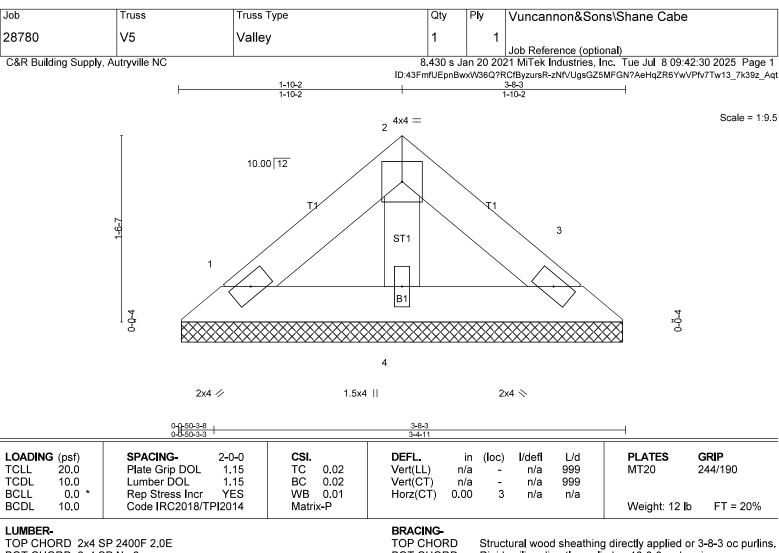
Max Horz 1=45(LC 7)

Max Uplift1=-13(LC 8), 3=-13(LC 8)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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, 3.
- 7) 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.



BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

BOT CHORD

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in

accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=68/3-7-10 (min. 0-1-8), 3=68/3-7-10 (min. 0-1-8), 4=94/3-7-10 (min. $\overline{0-1-8}$)

Max Horz 1=-21(LC 6)

Max Uplift1=-6(LC 8), 3=-6(LC 8)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph, TCDL=6.0psf; BCDL=6.0psf; h=20ft; B=64ft; L=26ft; 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, 3.
- 7) 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.