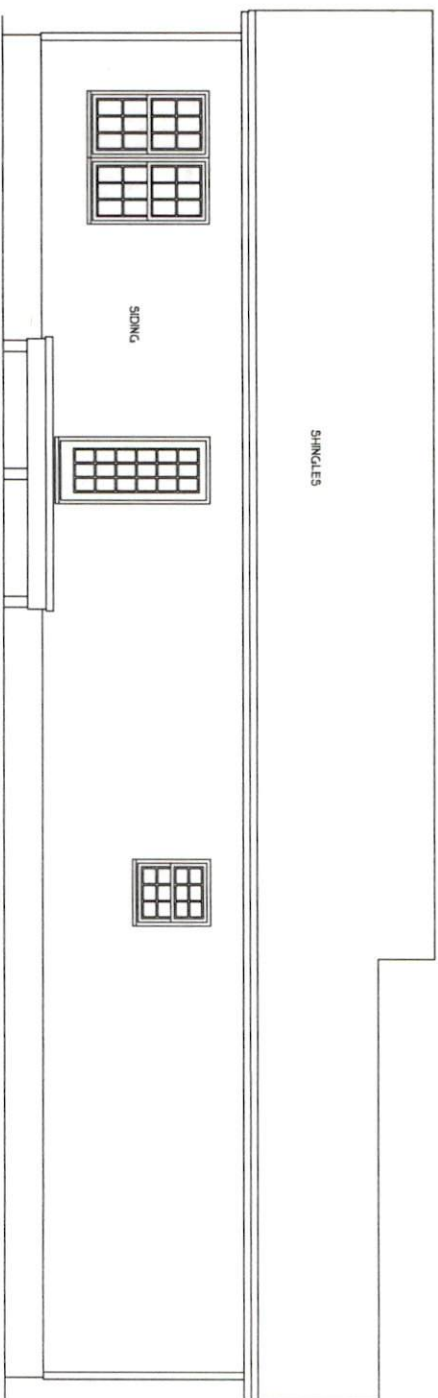
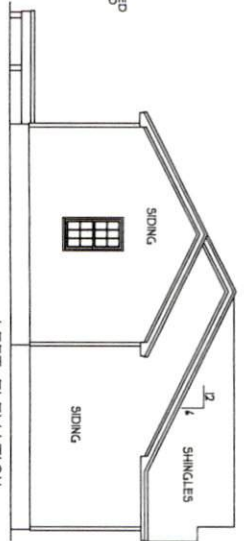


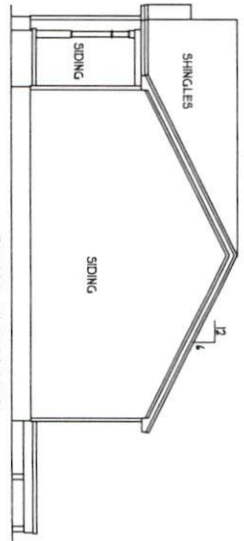
FRONT ELEVATION
 SCALE 1/4" = 1'-0"



REAR ELEVATION
 SCALE 1/4" = 1'-0"



LEFT ELEVATION
 SCALE 1/8" = 1'-0"



RIGHT ELEVATION
 SCALE 1/8" = 1'-0"

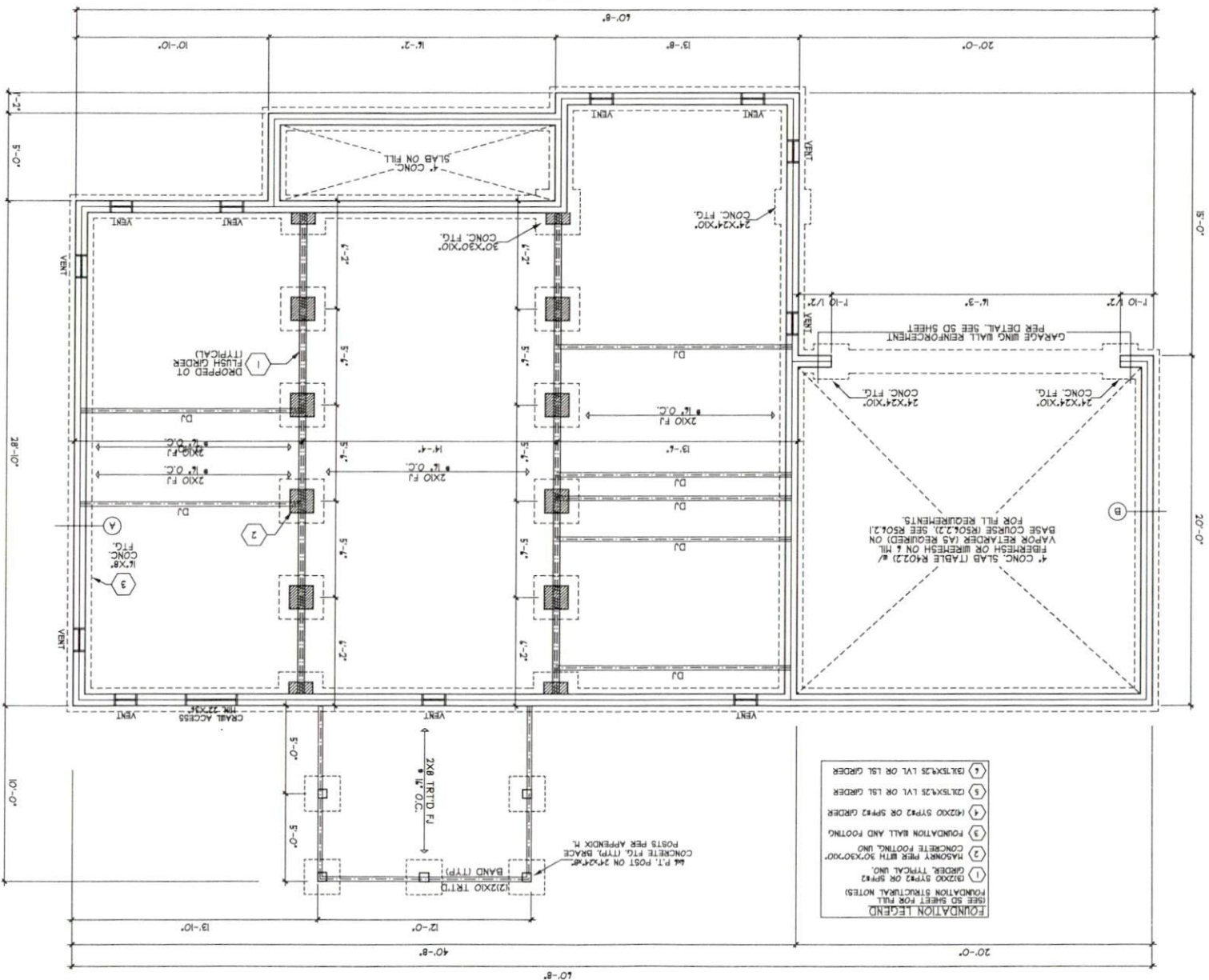
ATTIC VENTILATION:

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1/10 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA OF THE SPACE VENTILATED SHALL BE NOT LESS THAN 300 SQUARE FEET. VENTILATORS LOCATED IN THE ATTIC SHALL BE PROVIDED WITH A BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CONCEALED VENTS. GROSS ATTIC AREA TO BE VENTILATED 114 SQ. FT. 114/100 = 1.171 SQ. FT. NET FREE AREA

ENERGY COMPLIANCE
 ZONE 3 - MAX GLAZING U-FACTOR .35
 FLOORS RM
 ZONE 4 - MAX GLAZING U-FACTOR .35
 FLOORS RM
 R-VALUE = CEILING R24 WALLS R13
 FLOORS RM

FILE 010720.2	DATE 11/1/2020	DESIGNED BY: HEATHER or JOHNATHAN HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403	SQUARE FOOTAGE: FIRST FLOOR = 1257 FRONT PORCH = 80 WOOD DECK = 120 GARAGE = 400	HEATED FOOTAGE: #1257	THE WALLER II GARAGE LEFT JRT MANG. PROP.





- FOUNDATION LEGEND**
(SEE SD SHEET FOR FILL REQUIREMENTS)
(1) 2X20 STRIP OR SP#3 GARDER, TYPICAL AND
(2) HASGONYE PIER WITH 30"X30" CONCRETE FOOTING AND
(3) FOUNDATION WALL AND FOOTING
(4) 2X120 STRIP OR SP#3 GARDER
(5) 2X15X425 LVL OR LSL GARDER
(6) 2X15X425 LVL OR LSL GARDER

DAMP PROOFING
FOR DAMP PROOFING 1 WATER PROOFING REFER TO SECTION 405 1 401 IN 2018 EDITION NC RES. CODES

FND VENTS
1257/50 = 8.4 SQ. FT. REQ'D WITH VAPOR BARRIER *ONE VENT MUST BE WITHIN 3'-0" OF EVERY CORN.

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

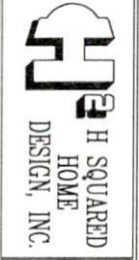
REFER TO BASIC DETAIL SHEETS FOR STANDARD DETAILS BRACING DETAILS, AND STRUCTURAL NOTES

FILE: 070120.2
DATE: 8/1/2020
I STORY

THIS PLAN IS TO ONLY BE BUILT BY THE ABOVE CITED BUILDER OR HOMEOWNER. NOT FOR MULTIPLE BUILDS UNLESS APPROVED BY H SQUARED.

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

ART ORIGINATOR OF THE SPECIFIED MEASUREMENTS OR DIMENSIONS CHECK H SQUARED HOME DESIGN INC'S LIABILITY.



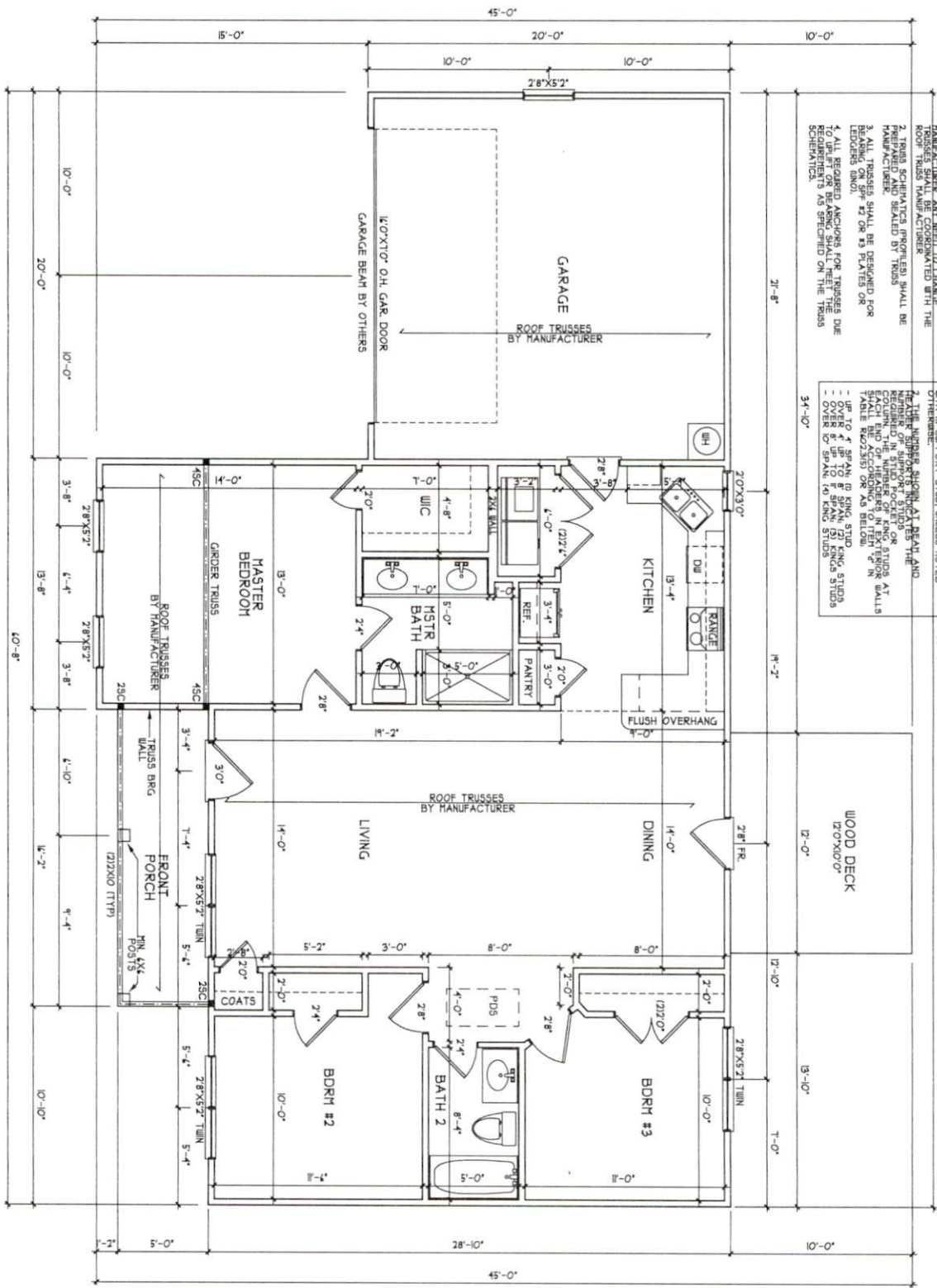
DESIGNED BY:
HEATHER or
JOHNATHAN HALL
185 HEATHERSTONE CT
BENSON NC 27504
(818) 207-1403

SQUARE FOOTAGE:
FIRST FLOOR = 1257
FRONT PORCH = 80
WOOD DECK = 120
GARAGE = 400

HEATED FOOTAGE:
#1257

THE WALLER II
GARAGE LEFT
JRT MANG. PROP.






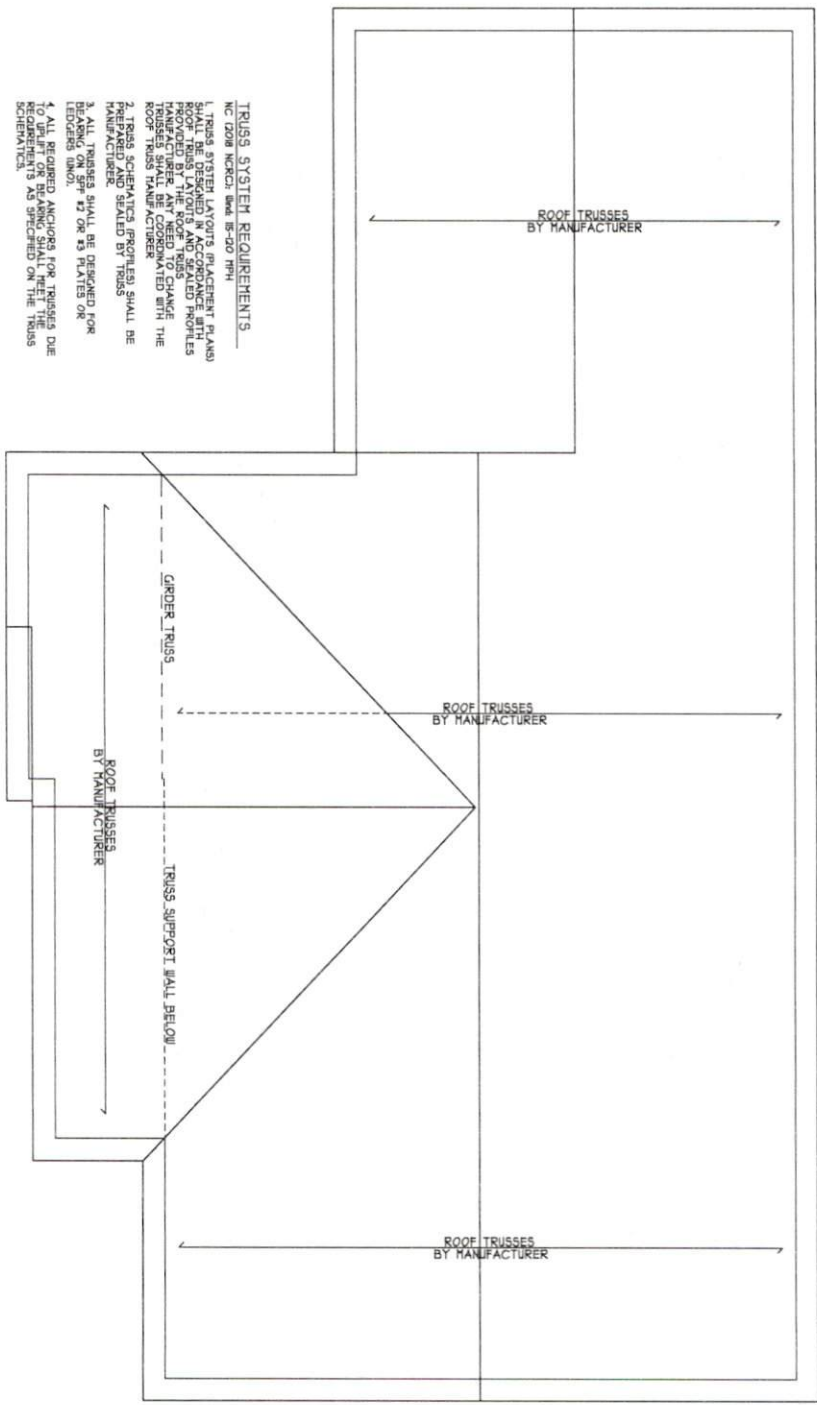
TRUSS SYSTEM REQUIREMENTS
 NC 2008 NCCCOB 506c 8-20 11P4
 1. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS)
 ROOF TRUSS LAYOUTS AND SEALED PROFILES
 PROVIDED BY THE ROOF TRUSS MANUFACTURER
 TRUSSES SHALL BE CONFORMANT WITH THE
 ROOF TRUSS MANUFACTURER
 2. TRUSS SCHEMATICS PROVIDED SHALL BE
 MANUFACTURER SEALED BY TRUSS
 MANUFACTURER
 3. ALL TRUSSES SHALL BE DESIGNED FOR
 BEARING ON SFP #2 OR #3 PLATES OR
 LEADERS (NOI).
 4. ALL REQUIRED ANCHORS FOR TRUSSES DUE
 TO MANUFACTURER REQUIREMENTS AS SPECIFIED ON THE TRUSS
 SCHEMATICS.

HEADER/BEAM & COLUMN NOTES
 1. ALL HEADER AND LOAD
 BEARING HEADERS SHALL BE MIN. 2X12
 WITH 10 SUPPORT STUDS UNLESS NOTED
 OTHERWISE.
 2. THE NUMBER OF SUPPORT STUDS AT EACH
 END OF COLUMN OR EXTERIOR WALLS
 SHALL BE 10 UNLESS NOTED OTHERWISE.
 3. UP TO 4" SPAN: 10 KING STUDS
 OVER 4" SPAN: 12 KING STUDS
 OVER 8" SPAN: 14 KING STUDS
 OVER 12" SPAN: 16 KING STUDS

REFER TO RASC DETAIL SHEETS
 FOR STANDARD DETAILS, BRACING
 DETAILS, AND STRUCTURAL NOTES

FIRST FLOOR PLAN
 SCALE 1/4" = 1'-0"

 H SQUARED HOME DESIGN, INC.	DESIGNED BY: HEATHER or JOHNATHAN HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403	SQUARE FOOTAGE: FIRST FLOOR = 1257 FRONT PORCH = 80 WOOD DECK = 120 GARAGE = 400	HEATED FOOTAGE: #1257	THE WALLER II GARAGE LEFT JRT MANG. PROP.
	THE PLAN HAS BEEN DRAWN AND CHECKED WITH THE MANUFACTURER'S REQUIREMENTS AND BUILDING CODES 2008 EDITION. THIS PLAN IS TO ONLY BE BUILT BY THE ABOVE LISTED BUILDER NOT FOR MULTIPLE BUILDS UNLESS APPROVED BY A SCANNED BY	DATE: 1/11/2020	FILE: 070120.2	I STORY



TRUSS SYSTEM REQUIREMENTS
 NC (2008) NCKC: Wind 85-50 MPH
 1. TRUSS SYSTEM LAYOUTS (PLANS) SHALL BE PROVIDED BY THE MANUFACTURER. ROOF TRUSS LAYOUTS AND SEALED PROFILES SHALL BE COORDINATED WITH THE ROOF TRUSS MANUFACTURER.
 2. TRUSS SCHEMATICS (PROFILES) SHALL BE PROVIDED BY THE MANUFACTURER.
 3. ALL TRUSSES SHALL BE DESIGNED FOR WINDING ON SFF #2 OR #3 PLATES OR EXCEEDING DIMS.
 4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

REFER TO BASIC DETAIL SHEET(S) FOR TRUSS ANCHORING DETAILS AND STRUCTURAL NOTES

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

FILE 010120.2	1 STORY	DATE 1/11/2020	THIS PLAN IS TO ONLY BE BUILT BY THE ABOVE LISTED ARCHITECT OR HOMEOWNER. NOT FOR MULTIPLE BUILDS UNLESS APPROVED BY H SQUARED.	THE PLAN HAS BEEN DRAWN IN ACCORDANCE WITH THE CAROLINA STATE RESIDENTIAL BUILDING CODES 2008 EDITION.	ALL DIMENSIONS OF THE SPECIFIED REQUIREMENTS ARE SQUARED UNLESS OTHERWISE NOTED.	H SQUARED HOME DESIGN, INC.	DESIGNED BY: HEATHER or JOHNATHAN HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403	SQUARE FOOTAGE: FIRST FLOOR = 1257 FRONT PORCH = 80 WOOD DECK = 120 GARAGE = 400	HEATED FOOTAGE: #1257	THE WALLER II GARAGE LEFT <hr/> JRT MANG. PROP.
							REFERENCE TO THE PLAN SHEET(S) FOR TRUSS ANCHORING DETAILS AND STRUCTURAL NOTES			



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 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.

DESIGN LOADS (R301.4)	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (L)
ROOMS OTHER THAN SLEEPING ROOMS 40	10	L/340	
SLEEPING ROOMS 30	10	L/340	
ATTIC WITH PERMANENT STAIR 40	10	L/340	
ATTIC WITH OUT PERMANENT STAIR 20	10	L/340	
ATTIC WITH OUT STORAGE 10	10	L/240	
STAIRS 40	10	L/340	
EXTERIOR BALCONIES 40	10	L/340	
DECKS 40	10	L/340	
GUARDRAILS AND HANDRAILS 200	10	L/340	
PASSENGER VEHICLE GARAGES 40	10	L/340	
FIRE ESCAPES 40	10	L/340	
SNOW 20	10	L/340	
WIND LOAD (BASED ON 15/30 MPH WIND VELOCITY I EXPOSURE B)			

2) WALL BRACING, BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION R602.3.

3) THE AMOUNT AND LOCATION OF BRACING SHALL COMPLY WITH TABLE R602.3.1. THE LENGTH OF BRACED PANELS SHALL BE DETERMINED BY SECTION R602.3.1. LATERAL BRACING SHALL BE SATISFIED PER METHOD 3 BY CONTINUOUSLY SHEATHING WALLS WITH STRUCTURAL SHEATHING PER SECTION R602.3.3. 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 (IND. AIR ENTRAINED PER TABLE R602.3.1). CONCRETE SHALL BE SAMPLED, 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 STRUCTURAL 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 DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.

6) ALL FRAMING LUMBER SHALL BE SPF #2 (F_b = 875 PSF) UNLESS NOTED OTHERWISE (IND.). ALL TREATED LUMBER SHALL BE SYP #2 (F_b = 775 PSF). PLATE MATERIAL MAY BE SPF #3 OR SYP #3 (F_b = 675 PSF - MIN).

7) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (1) 2x4 STUD COLUMN FOR 4'-0" MAX. BEAM SPAN (IND.), (2) 2x4 STUDS FOR BEAM SPAN GREATER THAN 4'-0" (IND.).

8) L.V.L. SHALL BE LAMINATED VENEER LUMBER: F_b=2100 PSF, F_v=285 PSF, E=1,140,000 PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: F_b=2400 PSF, F_v=290 PSF, E=2,040,000 PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER: F_b=2250 PSF, F_v=400 PSF, E=1,550,000 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 MANUFACTURER'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH DESIGNER OR ENGINEER.

10) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" 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 # 4" O.C. . ALL STEEL TUBING SHALL BE ASTM A500.

11) REBAR SHALL BE DEFORMED STEEL, ASTM#6, GRADE 40.

12) FURCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A307) 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 DISTANCES), WITH 2 BOLTS LOCATED AT 4" FROM EACH END.

13) BRICK LINTELS SHALL BE 3/2"x3/4" 1/2"x4/4" STEEL ANGLE FOR UP TO 4'-0" SPAN AND 4"x4"x6/4" STEEL ANGLE WITH 4" LEG VERTICAL FOR SPANS UP TO 4'-0" (IND.).

14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 20 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:

ROOF:
 45.4 PSF - 2.25/12 PITCH OR LESS
 34.8 PSF - 2.25/12 TO 1/12 PITCH
 21 PSF - 1/12 TO 1/24 PITCH
 WALLS:
 243 PSF - WALLS

HEADER/BEAM & COLUMN NOTES

1. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2x10 (4" WALL) OR (3) 2x10 (4" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.

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(15) OR AS BELOW:

- UP TO 4' SPAN; (1) KING STUD
- OVER 4' UP TO 8' SPAN; (2) KING STUDS
- OVER 8' UP TO 12' SPAN; (3) KING STUDS
- OVER 12' SPAN; (4) KING STUDS

FOUNDATION STRUCTURAL NOTES:

NC (2018 NCRCS) 15-120 MPH

1) (3) 2x10 SYP #2 OR SPF#2 GIRDER, TYPICAL UNO.

2) CONCRETE BLOCK PER SIZE SHALL BE:
 SIZE HOLLOW MASONRY SOLID MASONRY
 8 x 16 UP TO 32" HIGH UP TO 5'-0" HIGH
 12 x 16 UP TO 48" HIGH UP TO 7'-0" HIGH
 16 x 16 UP TO 64" HIGH UP TO 12'-0" HIGH
 24 x 24 UP TO 96" HIGH
 WITH 30" x 30" x 10' CONCRETE FOOTING, UNO.

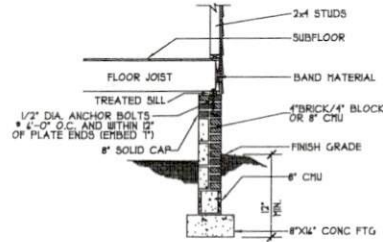
3) WALL FOOTING AS FOLLOWS:
 DEPTH: 8" - UP TO 2-1/2 STORY
 10" - 3 STORY
 WIDTH: SIDING (OR EQUAL)
 - 12" - UP TO 2-1/2 STORY
 - 20" - 3 STORY
 BRICK VENEER
 - 12" - 1 STORY
 - 20" - 2 STORY
 - 24" - 3 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R401.1 (1 THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.

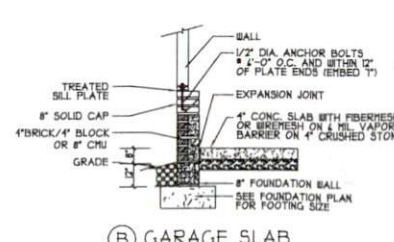
4) (1) 2x10 SYP#2 OR SPF#2 GIRDER
 1) (2) 12x12 LVL OR LSL GIRDER
 1) (3) 12x12 LVL OR LSL GIRDER

7) 'M' 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.

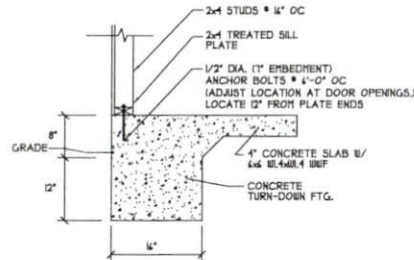
8. ABBREVIATIONS:
 "S" - SINGLE JOIST
 "D" - DOUBLE JOIST
 "T" - TRIPLE JOIST



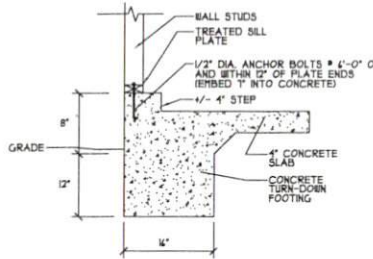
(A) CRAWL SECTION
NTS



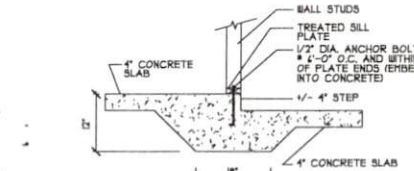
(B) GARAGE SLAB
NTS



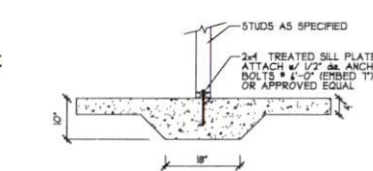
(C) TURN DOWN SLAB FOOTING
NTS



(D) TURN DOWN SLAB @ GARAGE
(SIDING) NTS



(E) THICKENED SLAB @ GARAGE
NTS



(F) TYPICAL THICKENED SLAB
NTS

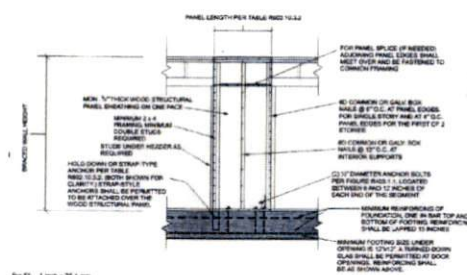


FIGURE R602.10.3.3 ALTERNATE BRACED WALL PANEL

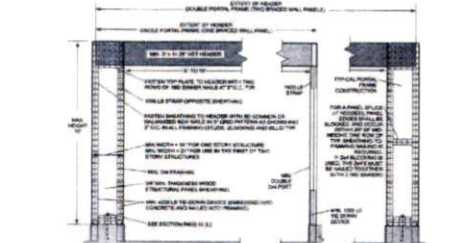
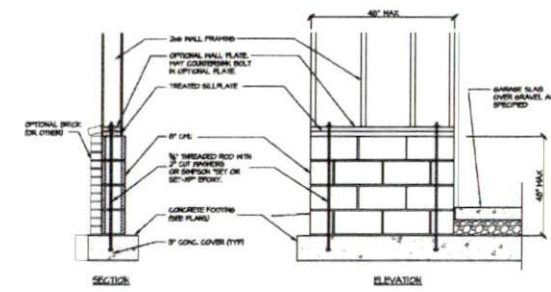


FIGURE R602.10.3.3 TYPICAL PORTAL FRAME WITH HOLD-DOWNS



GARAGE 'KING WALL' REINFORCING PER FIG. R602.10.4.3

BASIC BUILDING DETAIL SHEET

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

HEATHER HALL
185 HEATHERSTONE CT
BENSON NC 27504
19181 207-403

H SQUARED HOME DESIGN, INC.

HS

ANY REVISIONS TO THIS PLAN SHALL BE MADE IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL CODE. THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL CODE. SEE DETAIL FOR CONSTRUCTION.

DATE: _____

FILE: _____

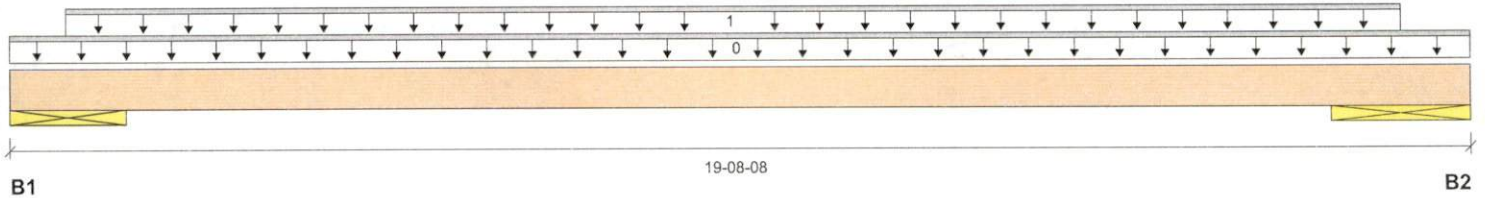
Roof/Dropped Beams\GDH(i19) (Dropped Beam)

BC CALC® Member Report
 Build 7493
 Job name:
 Address:
 City, State, Zip:
 Customer:
 Code reports: ESR-1040

Dry | 1 span | No cant.

August 5, 2020 15:26:20

File name: 2000612A.mmdl
 Description: Roof/Dropped Beams\GDH(i19)
 Specifier:
 Designer:
 Company:



Total Horizontal Product Length = 19-08-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 19"		1987 / 0		613 / 1512	1982 / 0
B2, 22-1/2"		2007 / 0		615 / 1662	1994 / 0

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Roof Live	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	19-08-08	Top		12				00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-09-04	18-09-04	Top		208			221	n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	14743 ft-lbs	56.9%	125%	1	09-09-04
End Shear	3122 lbs	31.6%	125%	1	16-10-02
Total Load Deflection	L/273 (0.719")	87.8%	n/a	1	09-09-04
Live Load Deflection	L/546 (0.36")	65.9%	n/a	98	09-09-04
Max Defl.	0.719"	71.9%	n/a	1	09-09-04
Span / Depth	16.5				

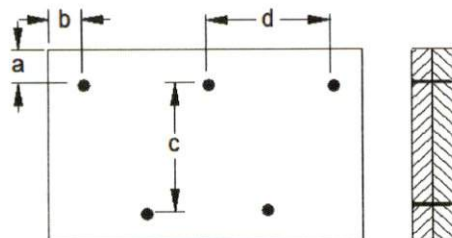
Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 19" x 3-1/2"	3968 lbs	14.0%	8.0%	Spruce-Pine-Fir
B2	Wall/Plate 22-1/2" x 3-1/2"	4001 lbs	12.0%	6.8%	Spruce-Pine-Fir

Notes

Design meets Code minimum (L/240) Total load deflection criteria.
 Design meets Code minimum (L/360) Live load deflection criteria.
 Design meets arbitrary (1") Maximum Total load deflection criteria.
 Design meets arbitrary (0.75") Maximum live load deflection criteria.
 Calculations assume unbraced length of Top: 01-10-08, Bottom: 01-10-08.
 BC CALC® analysis is based on IBC 2012.
 Wind loads determined from building geometry were used in selected product's verification.
 Design based on Dry Service Condition.

Connection Diagram: Full Length of Member



Roof\Dropped Beams\GDH(i19) (Dropped Beam)

Dry | 1 span | No cant.

August 5, 2020 15:26:20

BC CALC® Member Report

Build 7493

Job name:

File name: 2000612A.mmdl

Address:

Description: Roof\Dropped Beams\GDH(i19)

City, State, Zip:

Specifier:

Customer:

Designer:

Code reports: ESR-1040

Company:

Connection Diagram: Full Length of Member

a minimum = 2" c = 7-7/8"
b minimum = 3" d = 24"

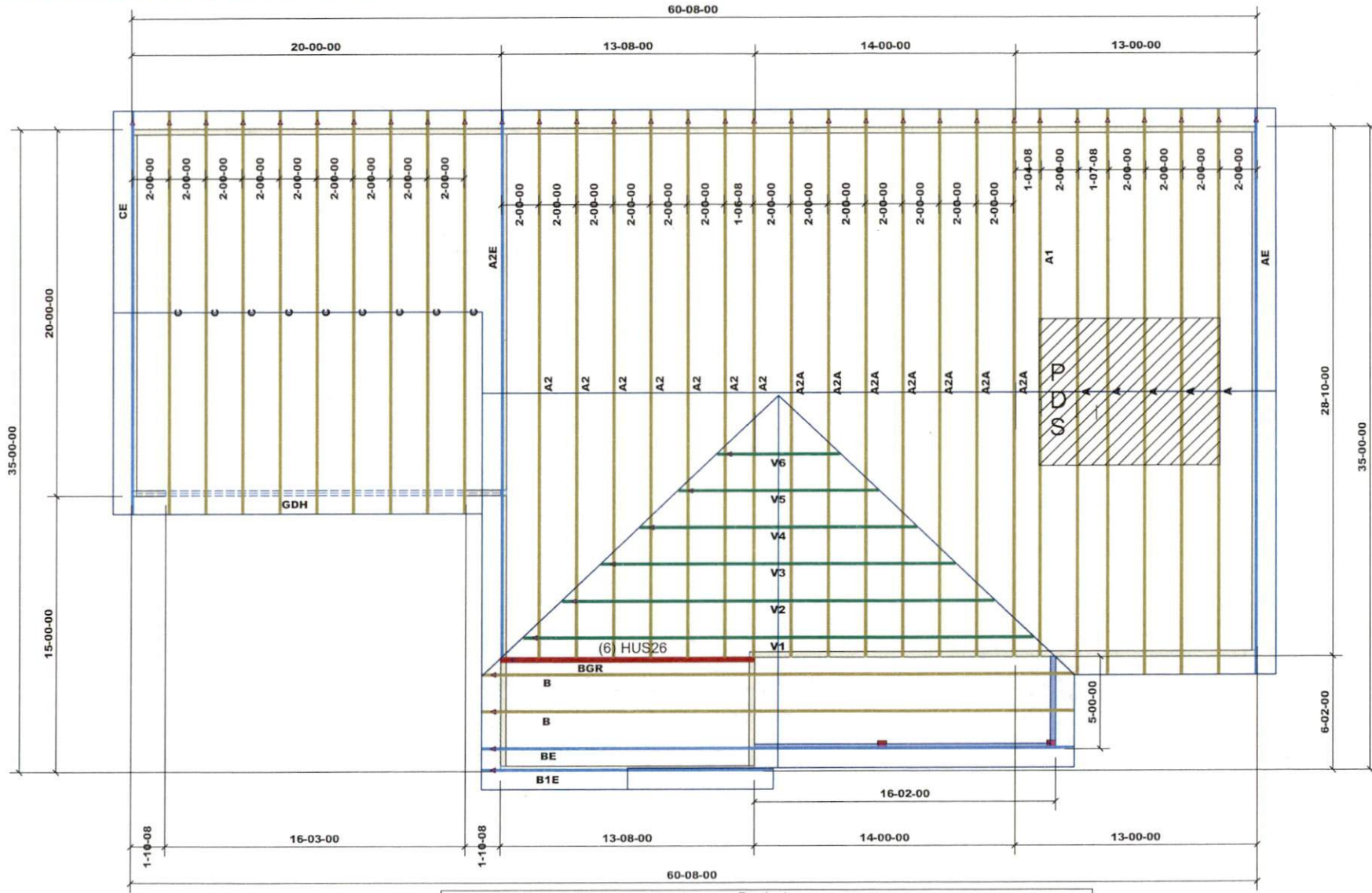
Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
GDH	20-00-00	1-3/4" x 11-7/8" VERSA-LAM@ 2.0 3100 SP	2	2	MFD



DEDICATED TO QUALITY AND EXCELLENCE
 200 EMMETT ROAD
 DUNN, NORTH CAROLINA 28334
 PHONE: 910-892-8400

PROJECT:	JRT THE WALLER
CUSTOMER:	2307-84 Fayetteville
MODEL:	THE WALLER
QUOTE #:	24557
PRINT DATE:	11/17/2020
DRAWN BY:	Rodney Evans
SCALE:	N.T.S

TOP LIVE LOAD:	20.0 lb/ft ²
TOP DEAD LOAD:	10.0 lb/ft ²
BOTTOM DEAD LOAD:	10.0 lb/ft ²
WIND SPEED:	130 mph

GENERAL NOTES:

- DO NOT CUT OR MODIFY TRUSSES
- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED
- REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTIPLY CONNECTION REQUIREMENTS.
- PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSSES TO TRUSS CONNECTIONS AND TRUSSES TO WALL TO WALL CONNECTIONS AND TRUSSES TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

1st Level Roof Area	2nd Level Roof Area
0	0

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: 24557-24557A
JRT THE WALLER

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I43653195 thru I43653212

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



November 17, 2020

Johnson, Andrew

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.

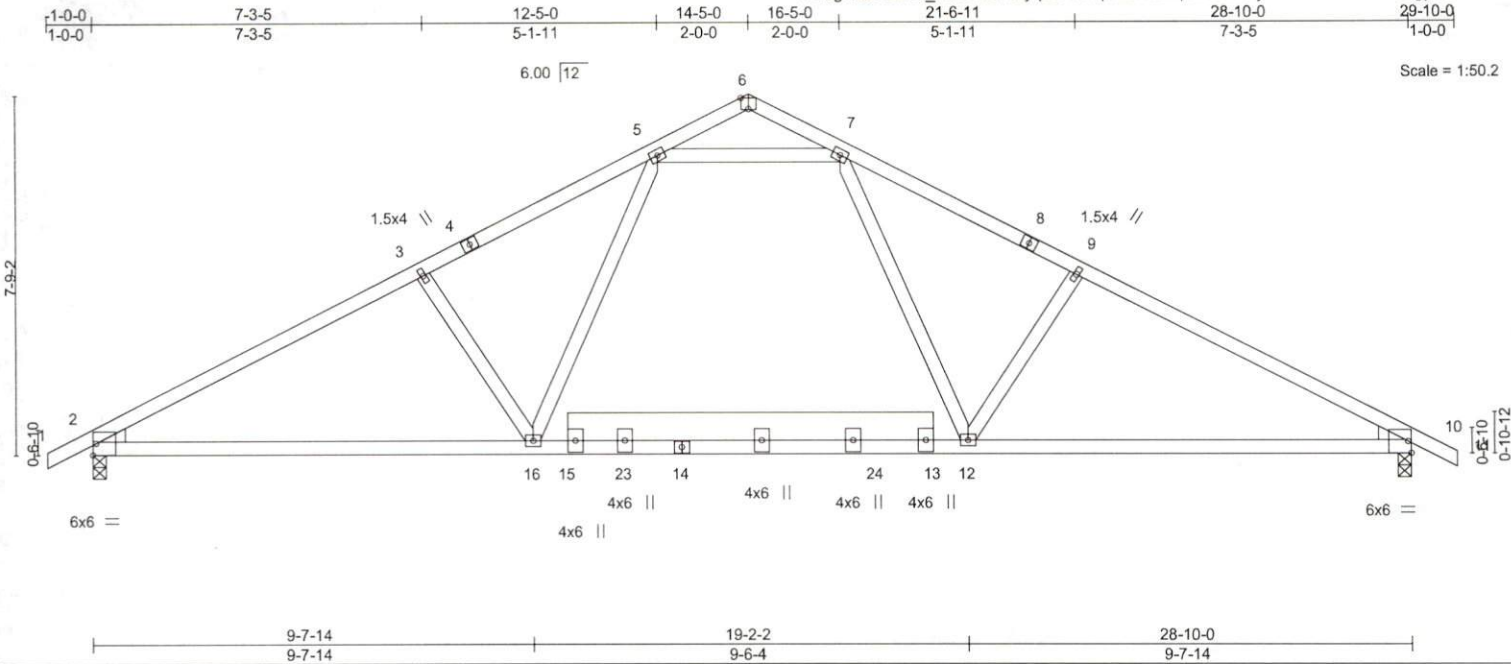
Job 24557-24557A	Truss A	Truss Type ROOF TRUSS	Qty 5	Ply 1	JRT THE WALLER	143653195
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Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:23 2020 Page 1

ID: AghQB u5Dr6l_3dix9kEaK2yqtL3-n0XpiLZYkU?q8i9EoZeHjv8mLu9FIVvxZdLbMgyIK2c



Scale = 1:50.2

Plate Offsets (X,Y)- [6:0-2-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.62	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(LL) -0.25 12-22 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Vert(CT) -0.40 12-22 >857 180		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) 0.05 10 n/a n/a		
				Weight: 160 lb	FT = 20%

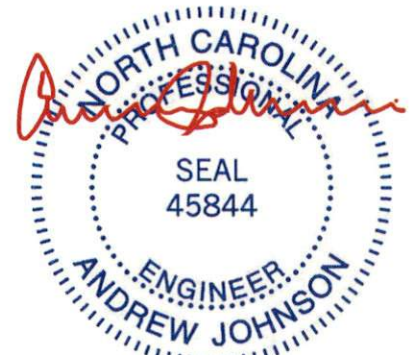
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
13-15: 2x8 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=-129(LC 13)
Max Uplift 2=-156(LC 12), 10=-156(LC 13)
Max Grav 2=1213(LC 1), 10=1213(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1947/494, 3-5=-1720/496, 7-9=-1720/496, 9-10=-1947/494
BOT CHORD 2-16=-323/1654, 12-16=-159/1261, 10-12=-325/1654
WEBS 7-12=-96/587, 9-12=-420/247, 5-16=-96/587, 3-16=-420/247, 5-7=-1209/456

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 3x4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
 - 7) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE



November 17, 2020

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 guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

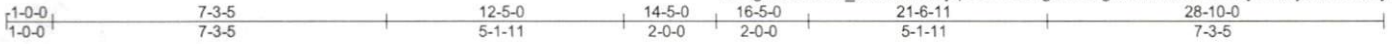
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 24557-24557A	Truss A1	Truss Type ROOF TRUSS	Qty 1	Ply 1	JRT THE WALLER	143653196
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:24 2020 Page 1

ID:AghQBu5Dr6l_3dlx9kEaK2yqtL3-FD5BvgaAVo7gmvkRMG9WG7hxyIVQUy94oH58u7yIK2b



6.00 | 12

Scale = 1:49.7

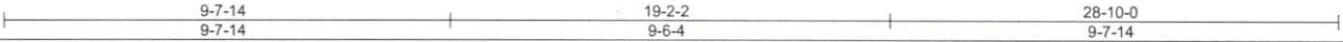
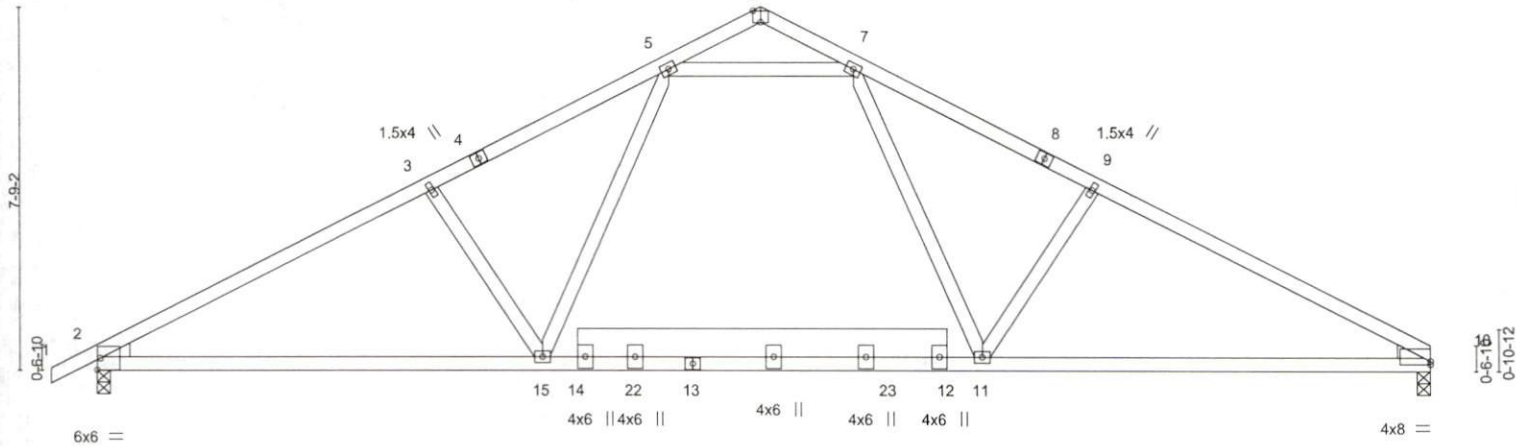


Plate Offsets (X,Y)--	[6:0-2-0,Edge], [10:0-0-0,0-0-13]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.25 11-21	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.41 11-21	>841	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 158 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 12-14: 2x8 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-9-6 oc bracing.
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=137(LC 16)
 Max Uplift 2=-156(LC 12), 10=-135(LC 13)
 Max Grav 2=1214(LC 1), 10=1152(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1949/496, 3-5=-1722/498, 7-9=-1727/500, 9-10=-1954/498
 BOT CHORD 2-15=-346/1656, 11-15=-180/1264, 10-11=-348/1661
 WEBS 7-11=-99/593, 9-11=-425/249, 5-15=-95/587, 3-15=-420/247, 5-7=-1210/457

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 3x4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
 - 7) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



November 17, 2020

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

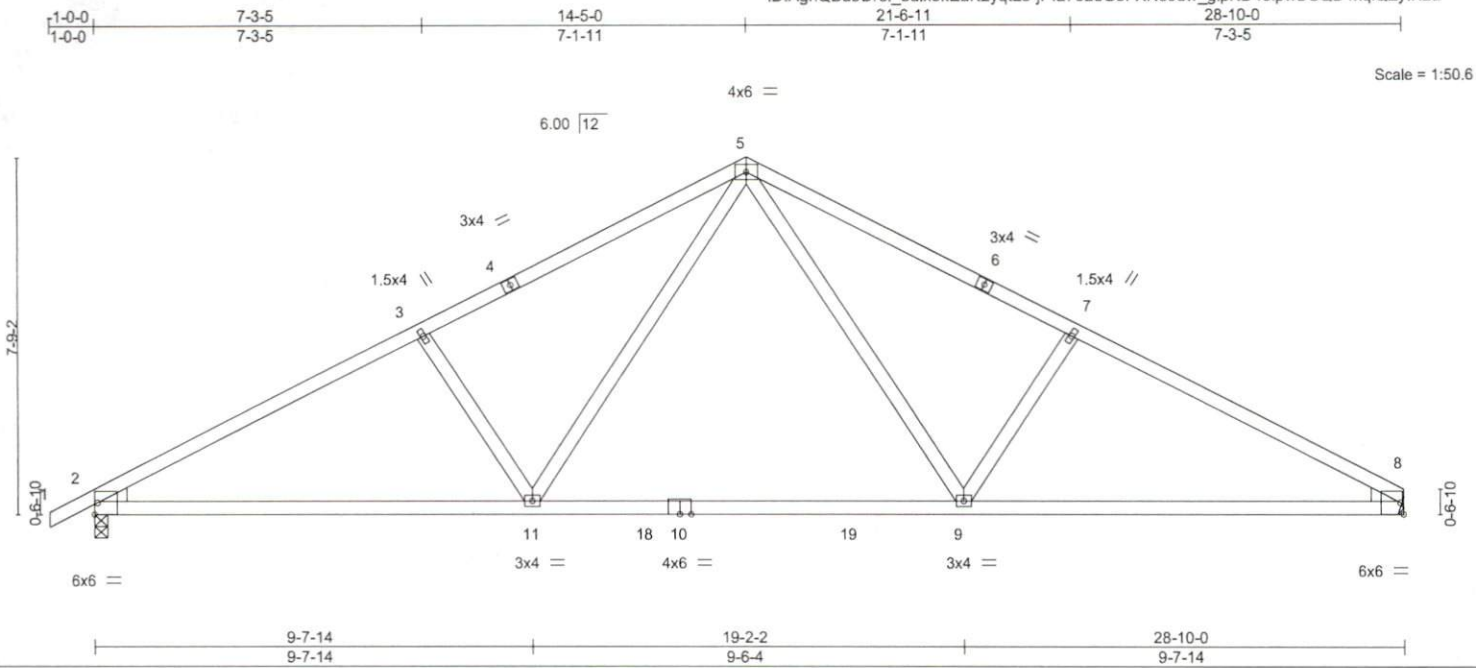
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 property 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
 Edenton, NC 27932

Job 24557-24557A	Truss A2	Truss Type Common	Qty 7	Ply 1	JRT THE WALLER	I43653197
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84 Components (Dunn), Dunn, NC - 28334, 8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:25 2020 Page 1
 ID:AghQB5Dr6l_3dlx9kEaK2yqtL3-jPfa70aoG5FXN3Jdw_glpKD43ipwDSQD1xqiQZyIK2a



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.39 9-11	>880	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.57 9-11	>606	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.07 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 133 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=Mechanical
 Max Horz 2=137(LC 16)
 Max Uplift 2=-156(LC 12), 8=-135(LC 13)
 Max Grav 2=1214(LC 1), 8=1152(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1970/504, 3-5=-1737/513, 5-7=-1742/515, 7-8=-1974/506
 BOT CHORD 2-11=-358/1679, 9-11=-130/1122, 8-9=-360/1684
 WEBS 5-9=-145/667, 7-9=-425/282, 5-11=-142/662, 3-11=-422/280

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=135.
 - One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



November 17, 2020

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 guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

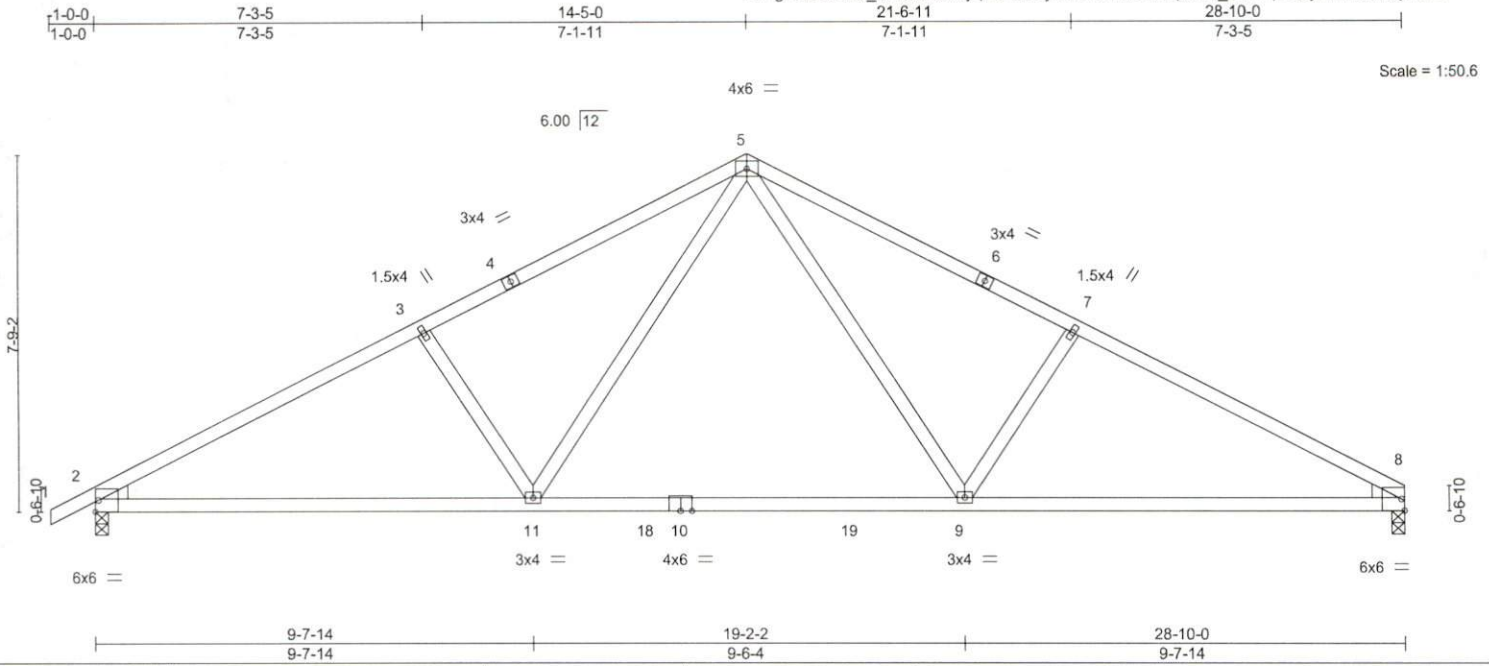


818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss A2A	Truss Type Common	Qty 7	Ply 1	JRT THE WALLER	143653198
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:26 2020 Page 1
ID:AghQBu5Dr6l_3dlx9kEaK2yqL3-BbDyKMbR1PNO?DupUhB_LYmFp699yvfNFbafz?yIK2Z



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.39 9-11	>880	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.57 9-11	>606	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.07 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 133 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=137(LC 16)
 Max Uplift 2=-156(LC 12), 8=-135(LC 13)
 Max Grav 2=1214(LC 1), 8=1152(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1970/504, 3-5=-1737/513, 5-7=-1742/515, 7-8=-1974/506
 BOT CHORD 2-11=-358/1679, 9-11=-130/1122, 8-9=-360/1684
 WEBS 5-9=-145/667, 7-9=-425/282, 5-11=-142/662, 3-11=-422/280

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.



November 17, 2020

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 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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss A2E	Truss Type Common Supported Gable	Qty 1	Ply 1	JRT THE WALLER	143653199
84 Components (Dunn), Dunn, NC - 28334,					Job Reference (optional)	

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:28 2020 Page 1
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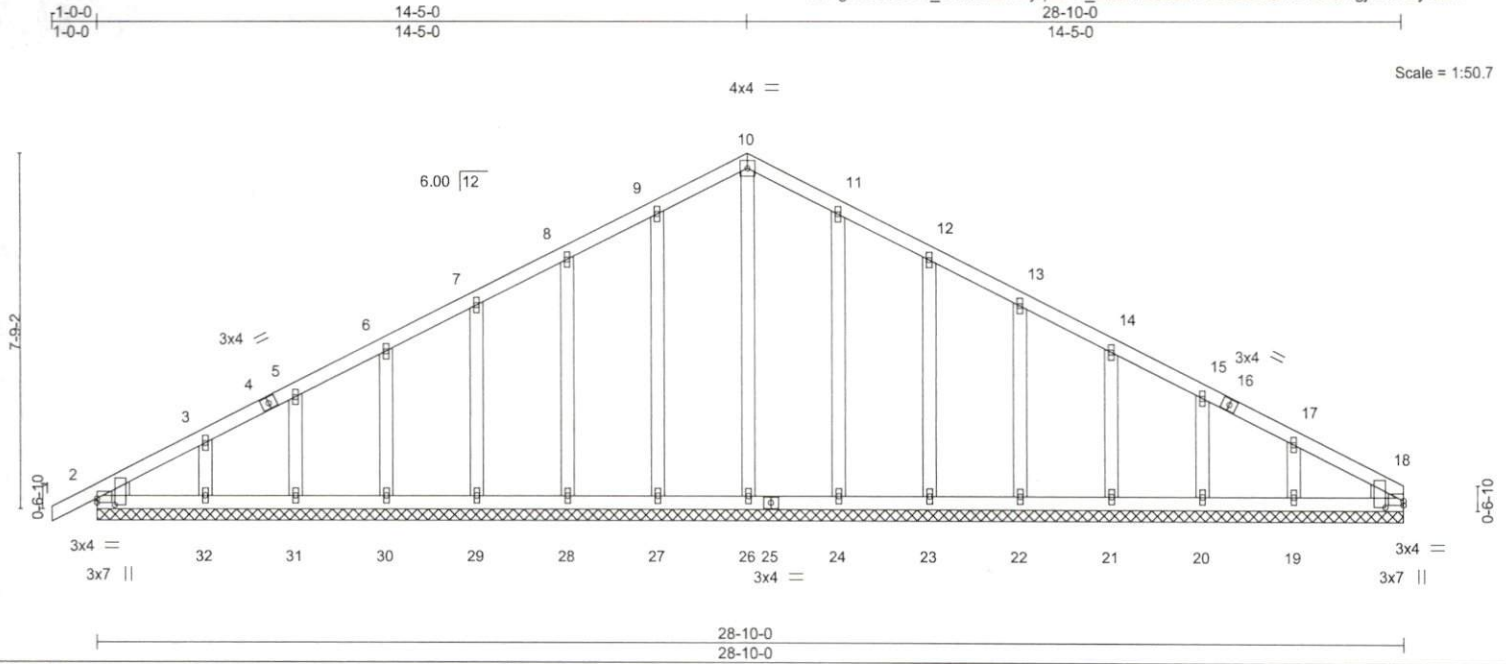


Plate Offsets (X,Y) - [2:0-0-0,0-1-1], [2:0-1-11,0-4-13], [18:Edge,0-1-1], [18:0-1-11,0-4-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	1	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	18	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						
								Weight: 171 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-10-0.
(lb) - Max Horz 2=133(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19
Max Grav All reactions 250 lb or less at joint(s) 2, 26, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19, 18

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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



November 17, 2020

Job 24557-24557A	Truss AE	Truss Type Common Supported Gable	Qty 1	Ply 1	JRT THE WALLER	43653200
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84 Components (Dunn), Dunn, NC - 28334, 8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:30 2020 Page 1
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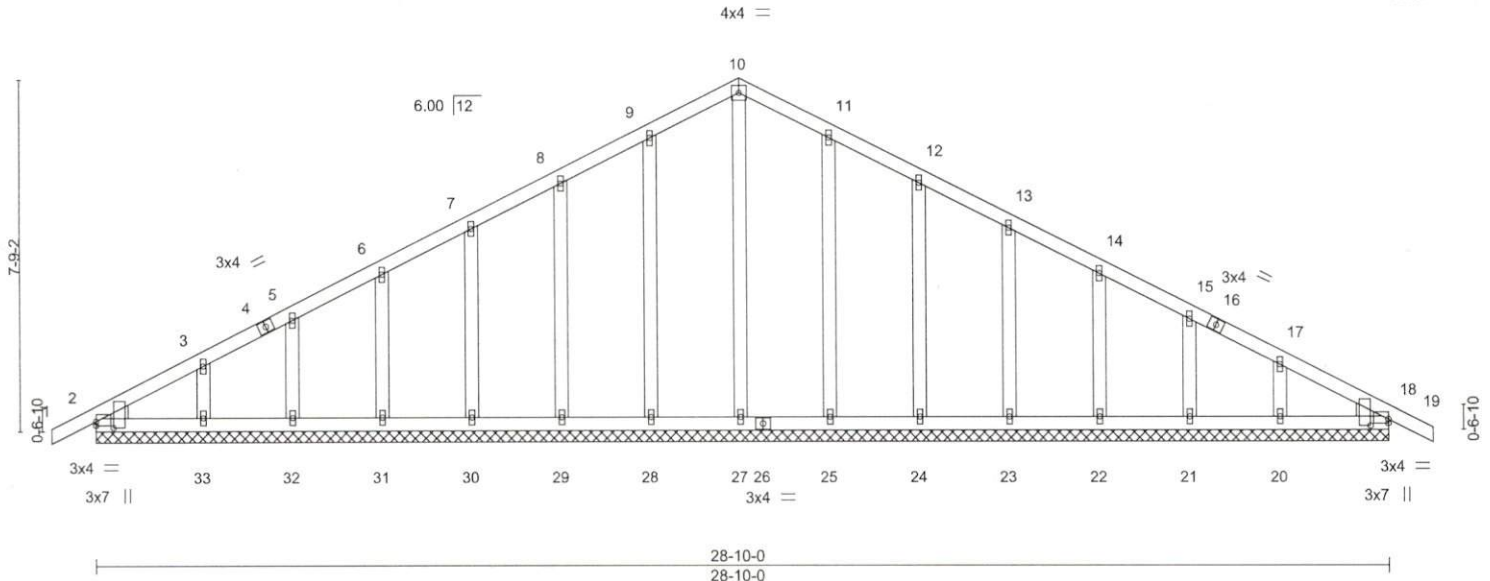


Plate Offsets (X,Y)-- [2:0-0-0,0-1-1], [2:0-1-11,0-4-13], [18:0-0-0,0-1-1], [18:0-1-11,0-4-13]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	18	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	18	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	18	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						
								Weight: 173 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-10-0.
 (lb) - Max Horz 2=129(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20
 Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) n/a
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18.



November 17, 2020

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 Edenton, NC 27932

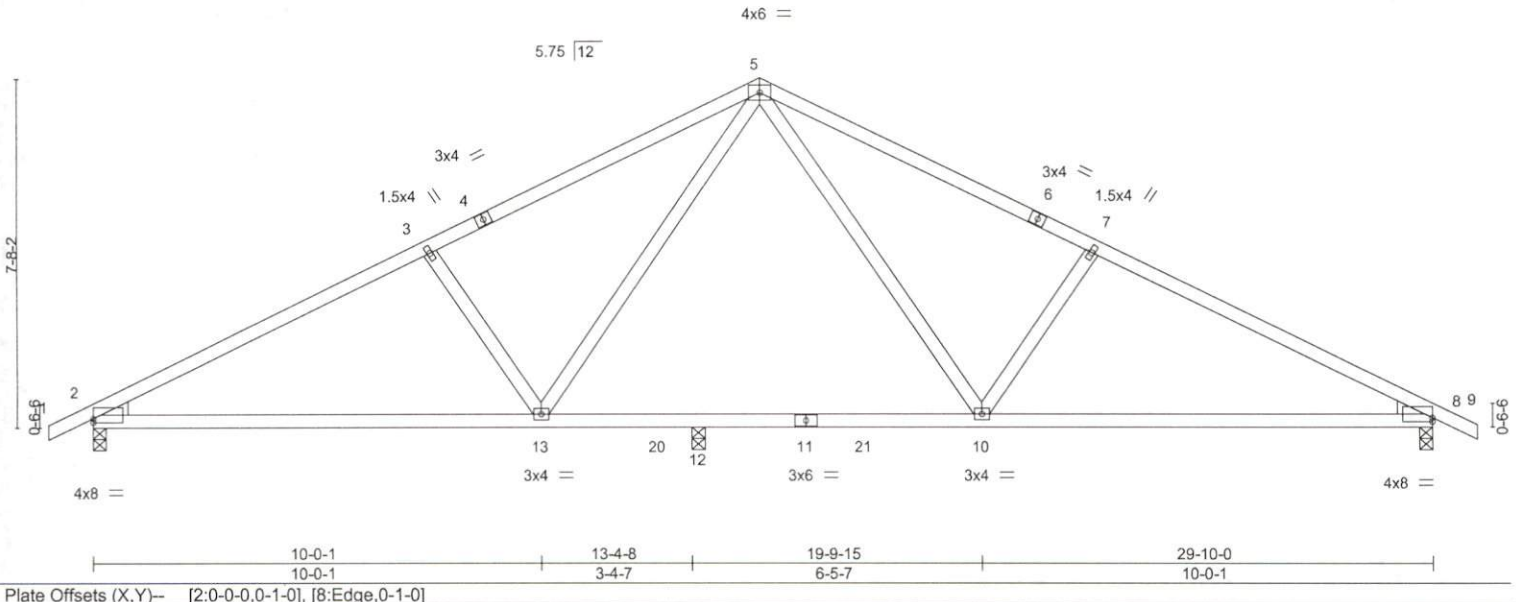
Job 24557-24557A	Truss B	Truss Type Common	Qty 2	Ply 1	JRT THE WALLER	143653201
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:32 2020 Page 1
ID:AghQBUsDr6l_3dlx9kEaK2yqtL3-0laDbQgBdF8Yj8LzqyIObp0H1XCQMdlFeX1aAfyIK2T

1-0-0 7-6-9 14-11-0 22-3-7 29-10-0 30-10-0
1-0-0 7-6-9 7-4-7 7-4-7 7-6-9 1-0-0

Scale = 1:51.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.22 13-16	>730	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.49 13-16	>332	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.06 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 138 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8, 12=0-3-8
Max Horz 2=-127(LC 13)
Max Uplift 2=-169(LC 12), 8=-169(LC 13)
Max Grav 2=1181(LC 1), 8=1193(LC 1), 12=252(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1929/535, 3-5=-1678/532, 5-7=-1711/532, 7-8=-1962/534
BOT CHORD 2-13=-367/1662, 12-13=-131/1110, 10-12=-131/1110, 8-10=-371/1691
WEBS 5-10=-143/643, 7-10=-452/287, 5-13=-143/599, 3-13=-455/287

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit 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) except (jt=lb) 2=169, 8=169.



November 17, 2020

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Edenton, NC 27932

Job 24557-24557A	Truss B1E	Truss Type Common Supported Gable	Qty 1	Ply 1	JRT THE WALLER	143653202
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:33 2020 Page 1
ID:AghQBu5Dr6l_3dlx9kEaK2yqtL3-Ux8bolhqOYGPLw9Ofpd70ZcRwmt579PsBm7i5yIK2S

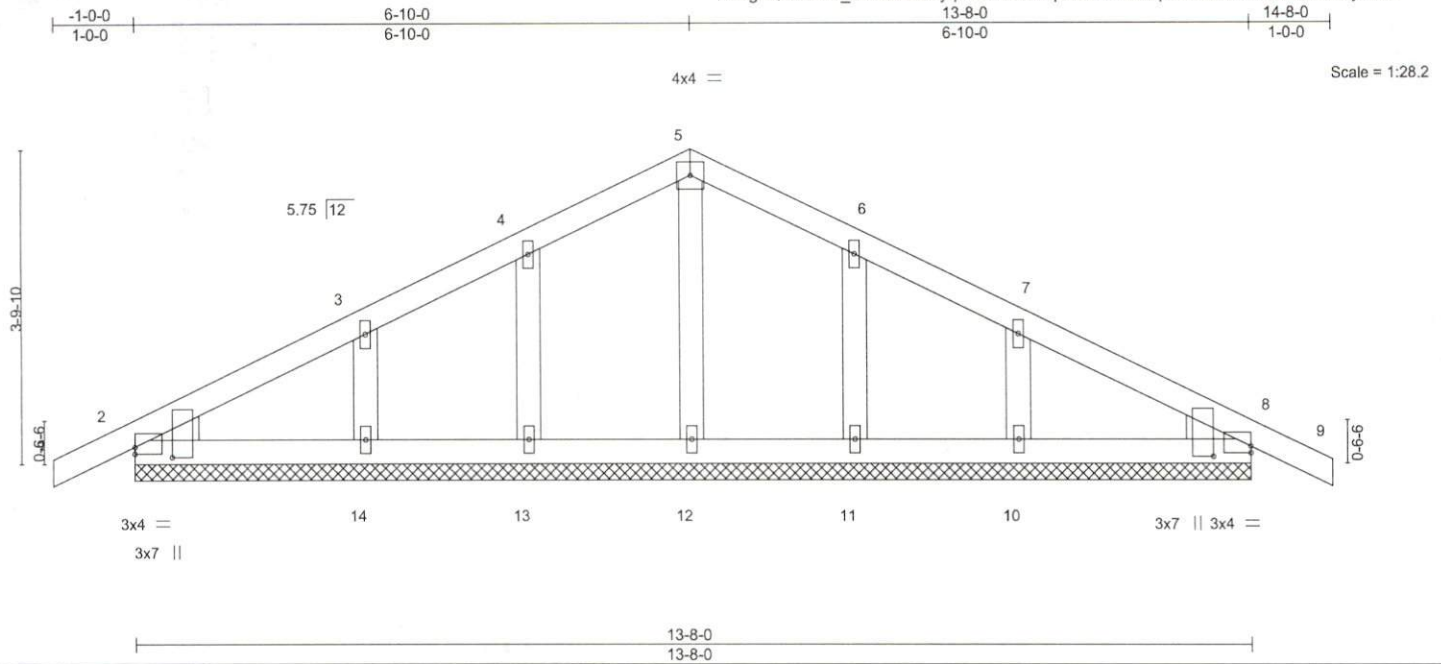


Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [2:0-1-7,0-5-8], [8:Edge,0-1-0], [8:0-1-7,0-5-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	8	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	0.00	9	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						
								Weight: 64 lb	FT = 20%

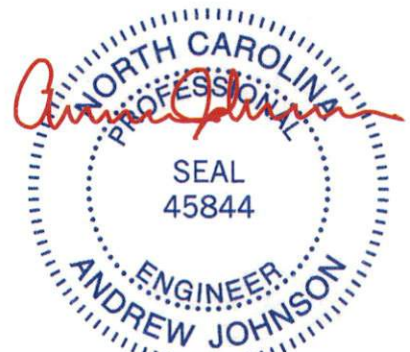
LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS. All bearings 13-8-0.
 (lb) - Max Horz 2=-63(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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) 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 where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
 - 9) n/a
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.



November 17, 2020

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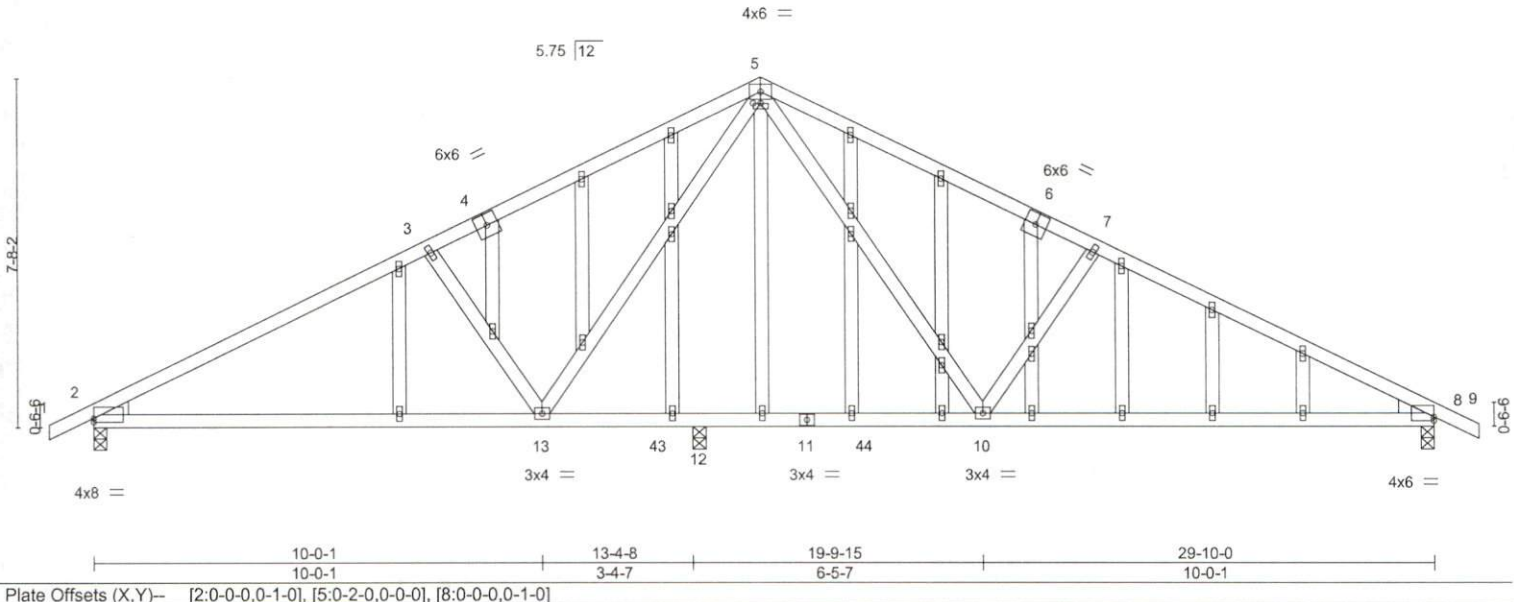
Job 24557-24557A	Truss BE	Truss Type GABLE	Qty 1	Ply 1	JRT THE WALLER	I43653203
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:34 2020 Page 1
ID:AghQBu5Dr6l_3dlx9kEaK2yqtL3-y8iz?5hS9sOGzSVMYnLsgE5dXKuuqWoY5rWgFYyIK2R



Scale = 1:51.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.22 13-39	>730	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.49 13-39	>332	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.06 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 204 lb	FT = 20%

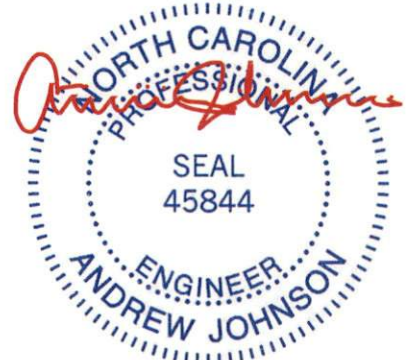
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8, 12=0-3-8
Max Horz 2=-127(LC 13)
Max Uplift 2=-169(LC 12), 8=-169(LC 13)
Max Grav 2=1181(LC 1), 8=1193(LC 1), 12=252(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1929/535, 3-5=-1678/532, 5-7=-1711/532, 7-8=-1962/534
BOT CHORD 2-13=-367/1662, 12-13=-131/1110, 10-12=-131/1110, 8-10=-371/1691
WEBS 5-10=-143/643, 7-10=-452/287, 5-13=-143/599, 3-13=-455/287

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; 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 studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.



November 17, 2020

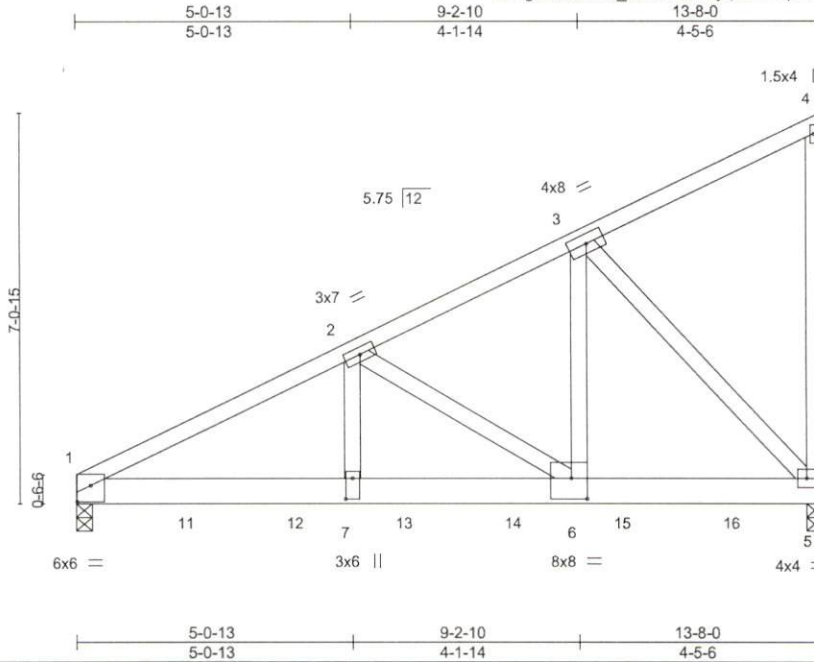
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 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

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Edenton, NC 27932

Job 24557-24557A	Truss BGR	Truss Type Monopitch Girder	Qty 1	Ply 2	JRT THE WALLER	143653204
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:36 2020 Page 1
ID:AghQBu5Dr6l_3dlx9kEaK2yqtL3-vWpkQnjgTe_Clfk3oNKIFB208h8IGPrY9?nJQyIK2P



Scale = 1:42.1

Plate Offsets (X,Y)-- [1:0-3-0,0-3-9], [6:0-3-8,0-4-8], [7:0-4-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.06	7-10	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.12	7-10	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.90	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 178 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=250(LC 12)
Max Uplift 1=-457(LC 12), 5=-622(LC 12)
Max Grav 1=3786(LC 1), 5=4090(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6310/799, 2-3=-3400/405
BOT CHORD 1-7=-947/5655, 6-7=-947/5655, 5-6=-497/3021
WEBS 2-7=-299/2620, 2-6=-3096/528, 3-6=-554/4345, 3-5=-4374/717

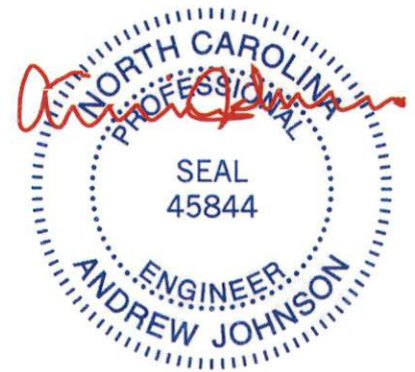
NOTES-

- 2-ply truss to be connected together with 10d (0.120"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 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1132 lb down and 155 lb up at 2-0-12, 1132 lb down and 155 lb up at 4-0-12, 1132 lb down and 155 lb up at 6-0-12, 1132 lb down and 155 lb up at 8-0-12, and 1132 lb down and 155 lb up at 10-0-12, and 1132 lb down and 155 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 2



November 17, 2020

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818 Soundside Road
Edenton, NC 27932

Job 24557-24557A	Truss BGR	Truss Type Monopitch Girder	Qty 1	Ply 2	JRT THE WALLER I43653204
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MITek Industries, Inc. Tue Nov 17 09:12:36 2020 Page 2
 ID:AghQBu5Dr6l_3dlx9kEaK2yqtL3-vWpkQnjigTe_Clfk3oNKIfB208h8IGPrY9?nJQyIK2P

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 11=-1132(B) 12=-1132(B) 13=-1132(B) 14=-1132(B) 15=-1132(B) 16=-1132(B)

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

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



818 Soundside Road
Edenton, NC 27932

Job 24557-24557A	Truss C	Truss Type Common	Qty 9	Ply 1	JRT THE WALLER	143653205
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:37 2020 Page 1
ID:AghQB5Dr6l_3dlx9kEaK2yqtL3-NjN6e7kKRnqqvDwdVuzIsjFpYwZ1u8?npkKrsyIK2O

Job Reference (optional)

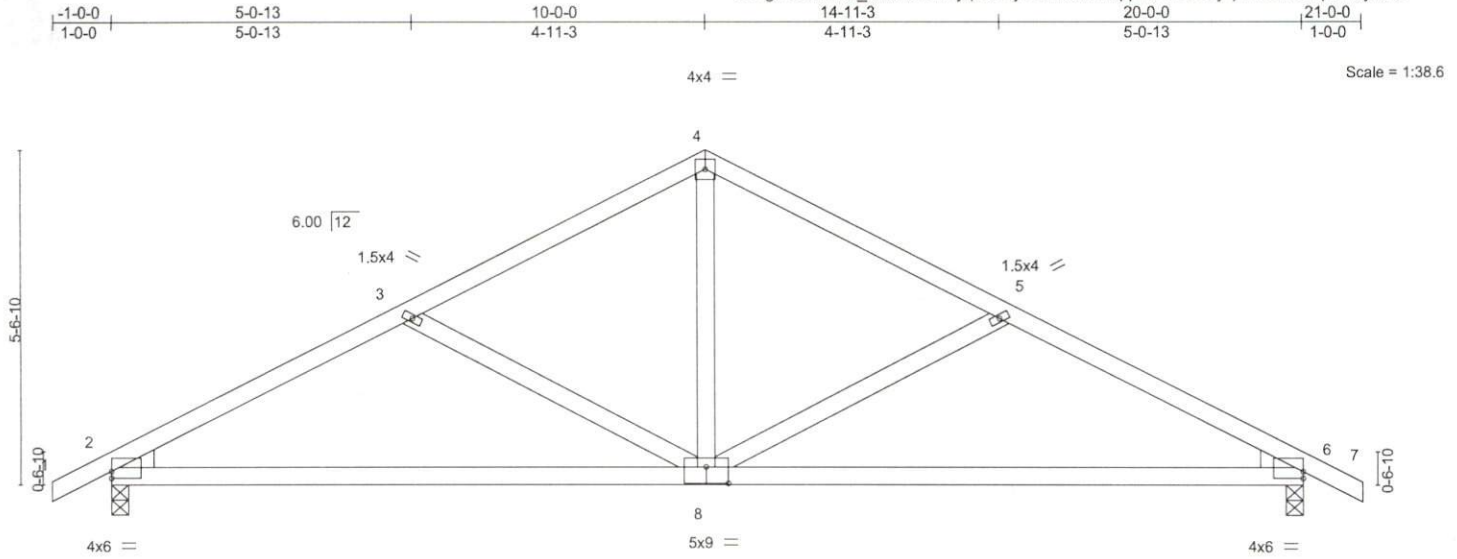


Plate Offsets (X,Y)--	[2:0-0-0,0-1-5], [6:0-0-0,0-1-5], [8:0-4-8,0-3-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.15	8-14	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.31	8-14	>770		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MS					Weight: 92 lb	FT = 20%

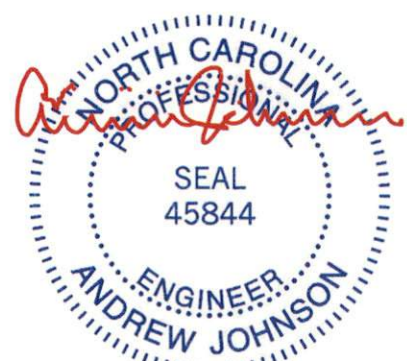
LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-2 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=92(LC 16)
 Max Uplift 2=-115(LC 12), 6=-115(LC 13)
 Max Grav 2=860(LC 1), 6=860(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1294/358, 3-4=-969/260, 4-5=-969/260, 5-6=-1294/358
 BOT CHORD 2-8=-229/1101, 6-8=-232/1101
 WEBS 4-8=-69/561, 5-8=-358/216, 3-8=-358/216

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.



November 17, 2020

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 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
 Edenton, NC 27932

Job 24557-24557A	Truss CE	Truss Type Common Supported Gable	Qty 1	Ply 1	JRT THE WALLER	143653206
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84 Components (Dunn), Dunn, NC - 28334.

8,420 s Oct 9 2020 MITek Industries, Inc. Tue Nov 17 09:12:38 2020 Page 1

ID:AghQBu5Dr6l_3dlx9kEaK2yqL3-rvxUrTKyC5uhR3o7BDPq4GTGxTQmO280TUuOJyIK2N

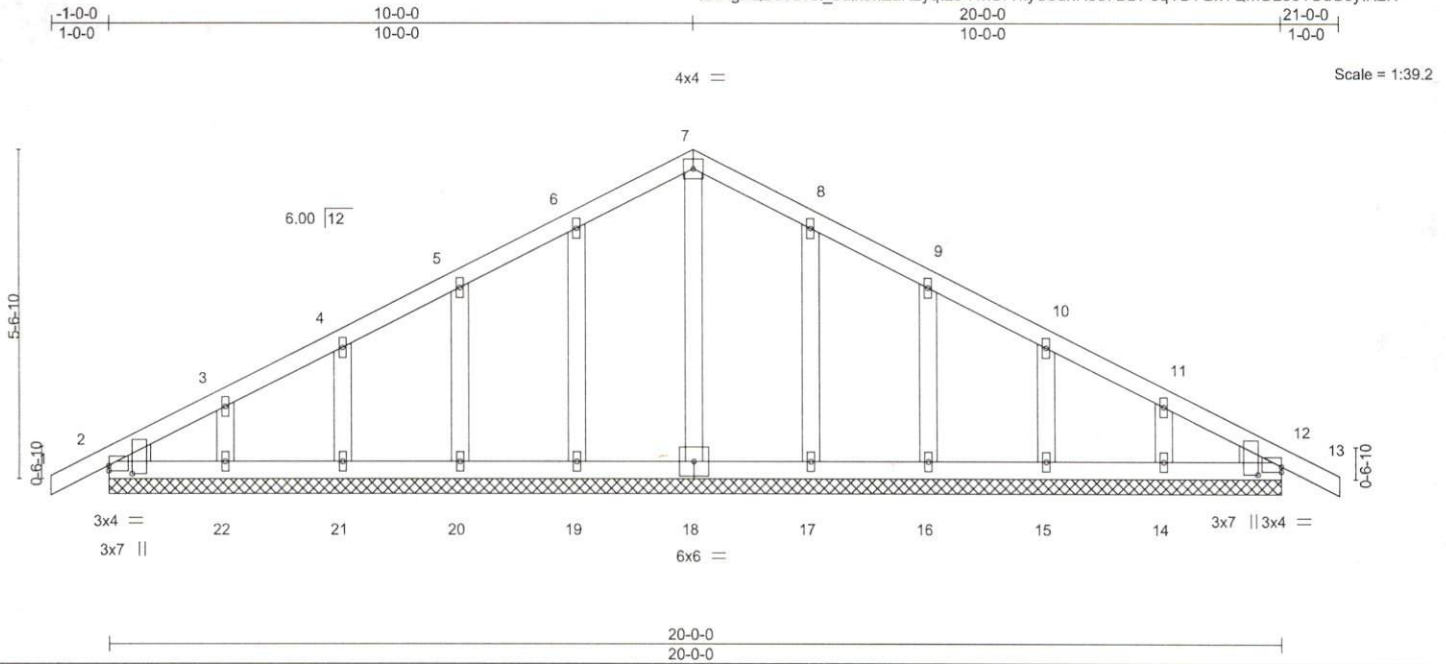


Plate Offsets (X,Y)--	[2:0-0,0-0,1-1], [2:0-1-11,0-4-13], [12:0-0-0,0-1-1], [12:0-1-11,0-4-13]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 13 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 13 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 106 lb	FT = 20%

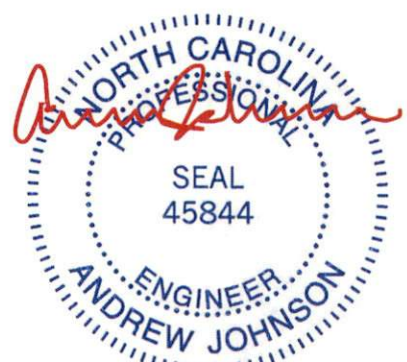
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 2=92(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

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=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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) 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) n/a
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.

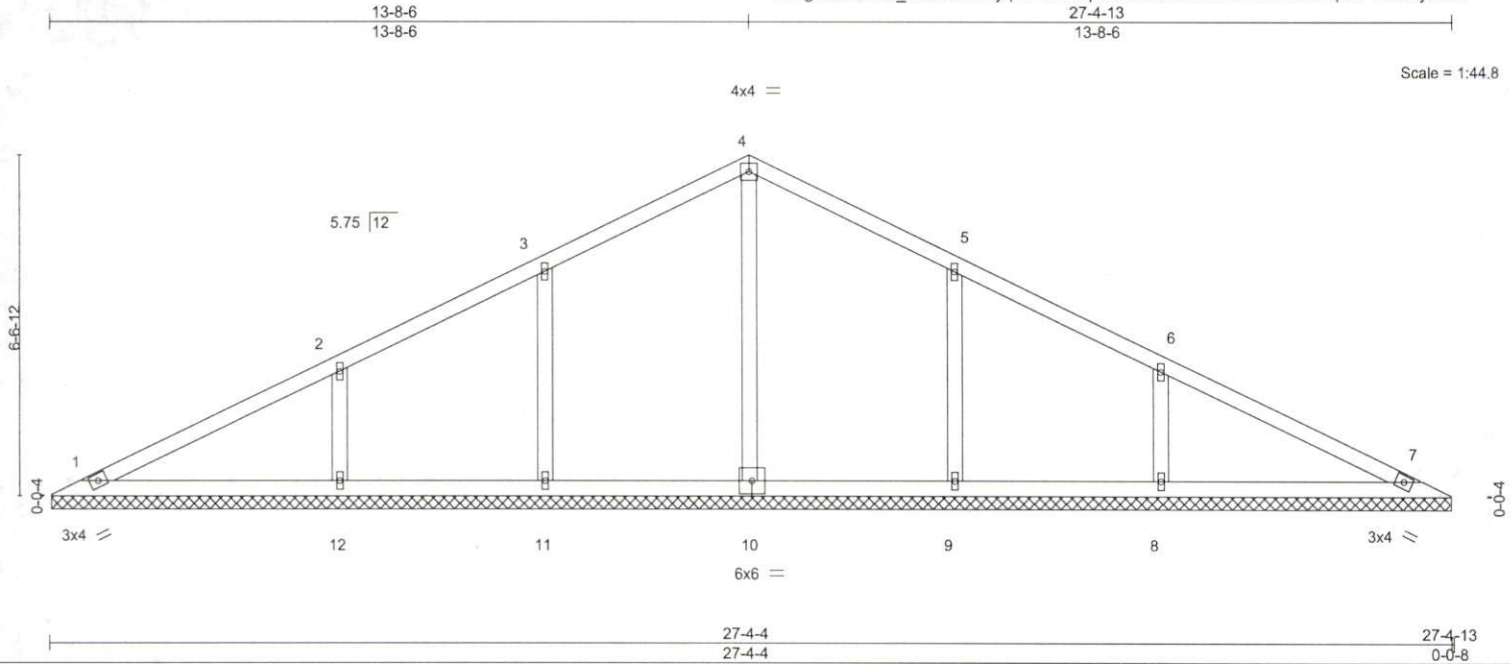


November 17, 2020

Job 24557-24557A	Truss V1	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	143653207
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:39 2020 Page 1
ID:AghQB5Dr6l_3dlx9kEaK2yqtL3-J5Vs3plbzO0Y3DNJkww1NHoaHLM?VpIH7DRwlyIK2M



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 111 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 27-3-12.
 (lb) - Max Horz 1=-104(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 9 except 12=-124(LC 12), 8=-123(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=402(LC 22), 11=325(LC 25), 12=424(LC 1), 9=321(LC 26), 8=425(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-12=-308/203, 6-8=-308/203

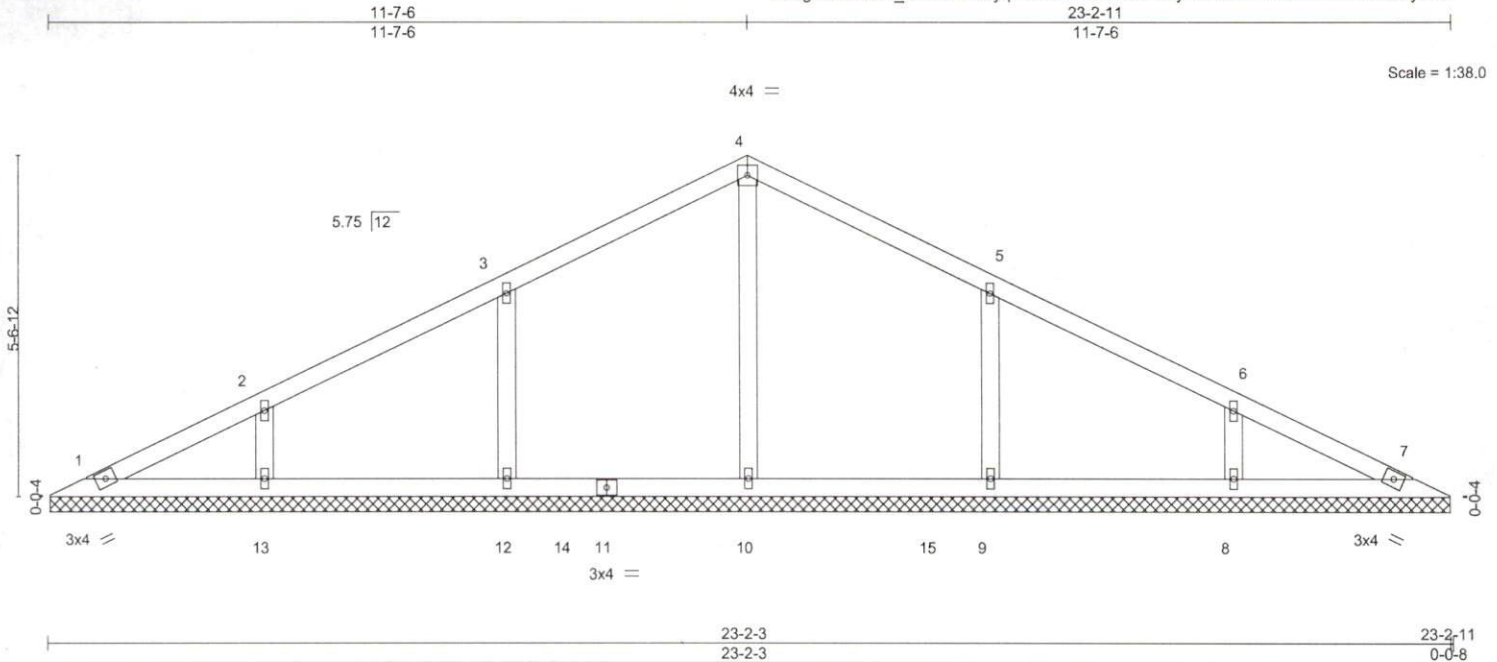
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.



Job 24557-24557A	Truss V2	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	I43653208
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:40 2020 Page 1
ID:AghQBu5Dr6l_3dlx9kEaK2yqtL3-nl3FG9mDki8PhNyVldRGwVLMii7dEHnRTnz?SByIK2L



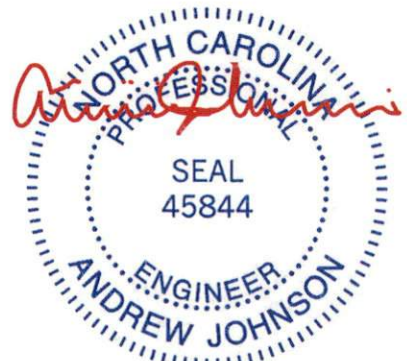
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 91 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 23-1-10.
 (lb) - Max Horz 1=88(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 8 except 12=-106(LC 12), 9=-106(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=372(LC 19), 12=344(LC 23), 13=304(LC 1), 9=344(LC 24), 8=304(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-264/174, 5-9=-264/174

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



November 17, 2020

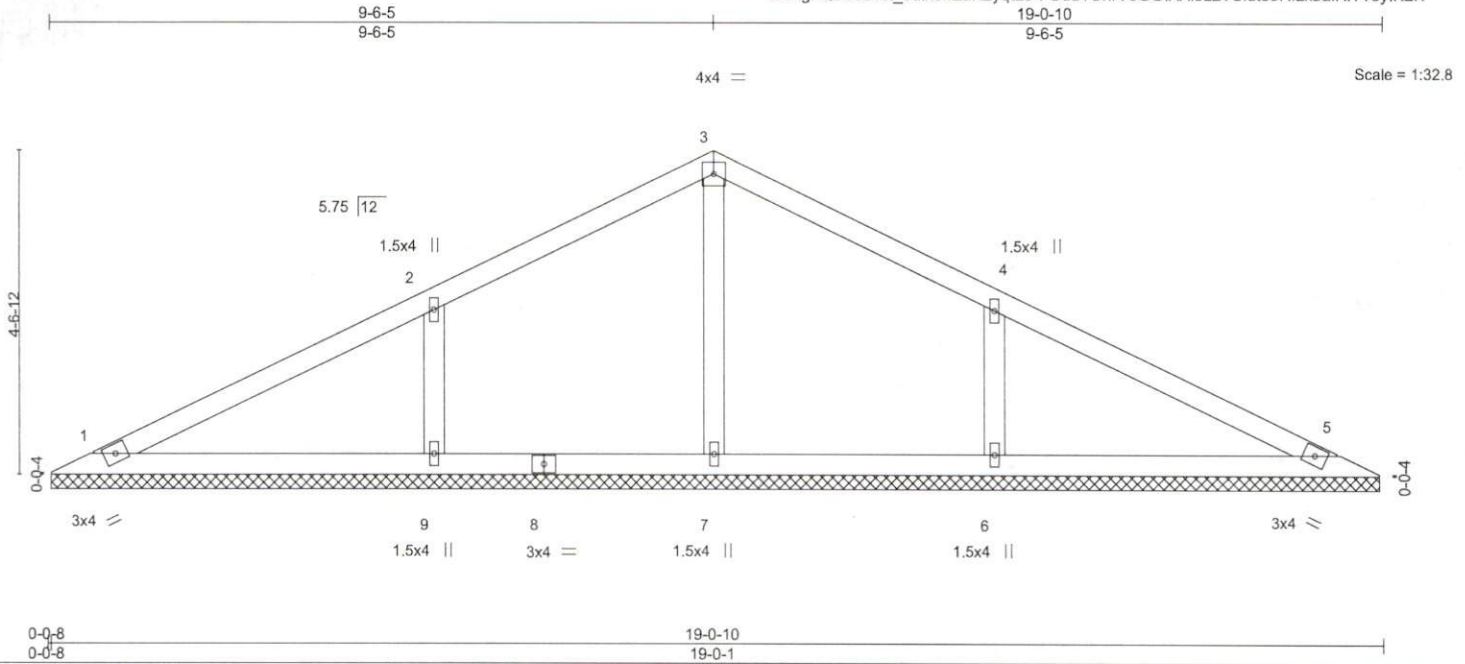
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss V3	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	143653209
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84 Components (Dunn), Dunn, NC - 28334,

8,420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:41 2020 Page 1
ID:AghQB5Dr6l_3dlx9kEaK2yqtL3-FUddTUnrV0GGIXisLzVSiuto9RfzkbaiRIY?eyIK2K



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 70 lb	FT = 20%

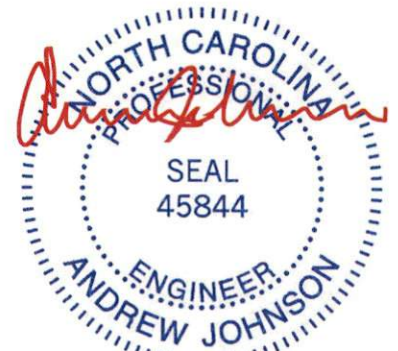
LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-11-9.
 (lb) - Max Horz 1=71(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=131(LC 12), 6=131(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=435(LC 23), 6=435(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-320/208, 4-6=-320/208

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



November 17, 2020

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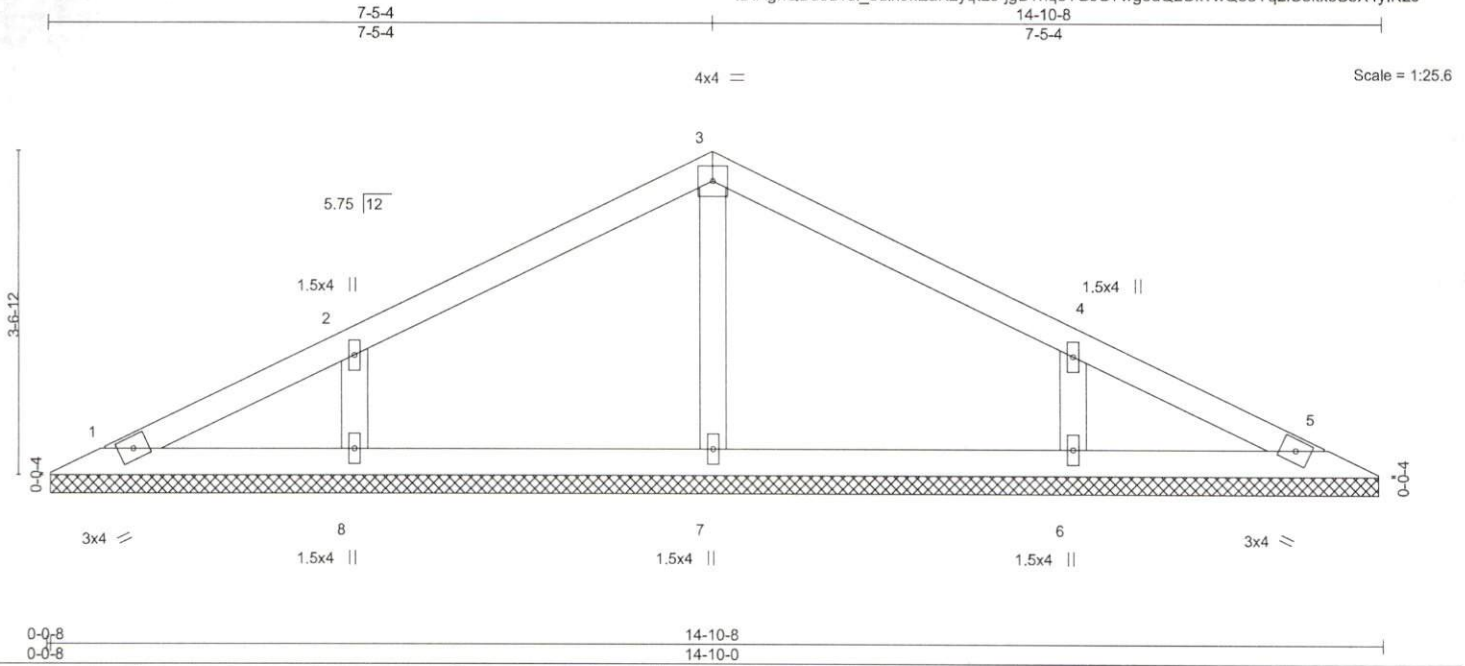
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss V4	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	143653210
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MITek Industries, Inc. Tue Nov 17 09:12:42 2020 Page 1
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Job Reference (optional)



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 52 lb	FT = 20%

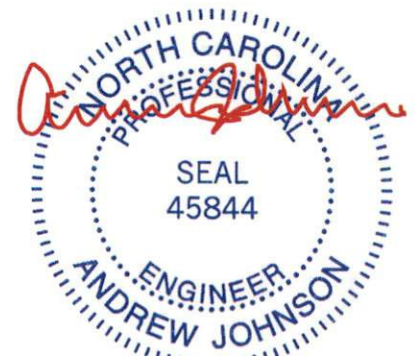
LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-9-8.
 (lb) - Max Horz 1=54(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-101(LC 12), 6=-101(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=284(LC 1), 8=323(LC 23), 6=323(LC 24)

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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



November 17, 2020

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 guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

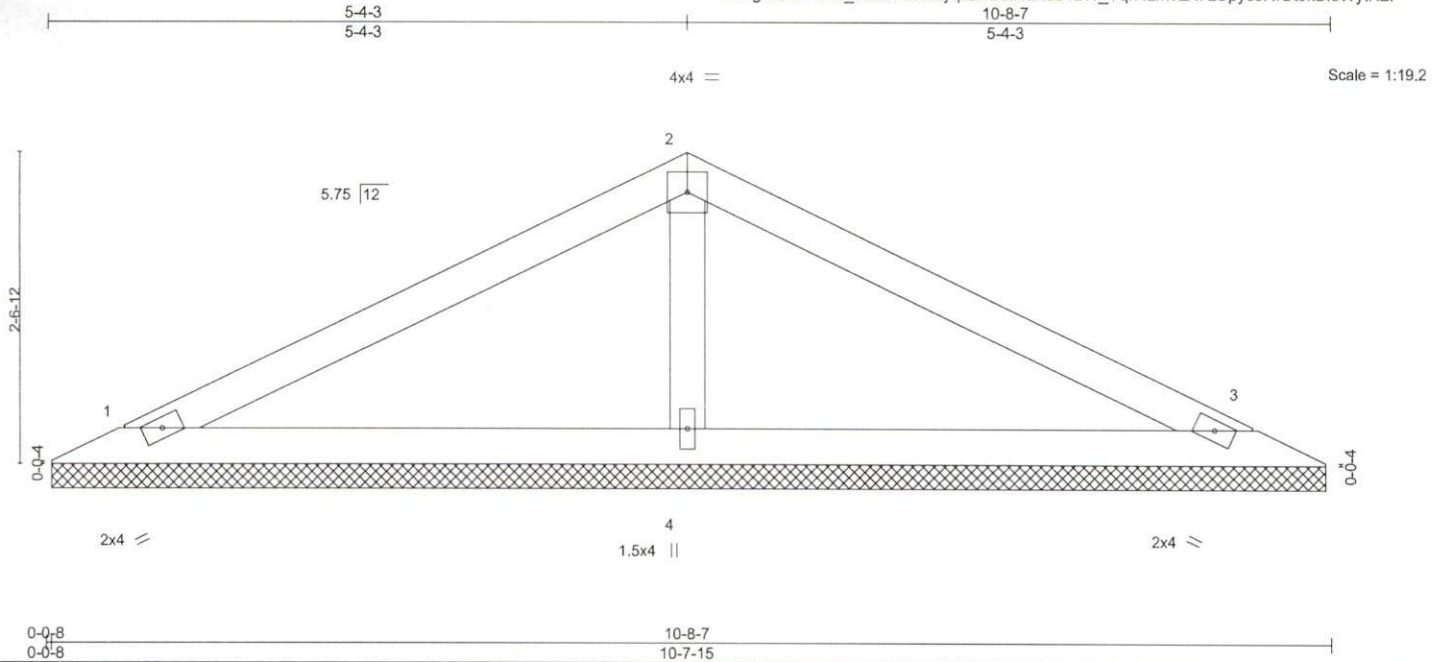
ENGINEERING BY
TRENCO
 A MITek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss V5	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	143653211
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:43 2020 Page 1
ID:AghQBUsDr6l_3dlx9kEaK2yqtL3-BslNuAo51dW_Yqh4zm?zX7zCpy6JrfGt9kbf3WylK2l



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 34 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=10-7-6, 3=10-7-6, 4=10-7-6
 Max Horz 1=-38(LC 17)
 Max Uplift 1=-34(LC 12), 3=-41(LC 13), 4=-20(LC 12)
 Max Grav 1=171(LC 23), 3=171(LC 24), 4=414(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-276/149

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



November 17, 2020

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 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

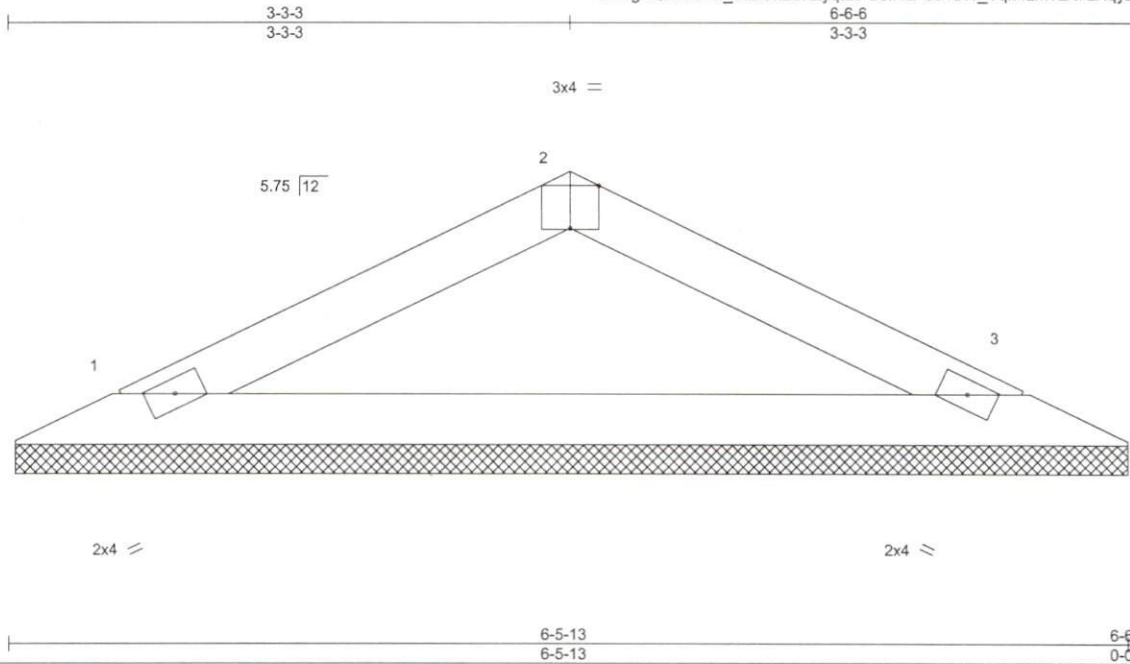


818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss V6	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	143653212
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MITek Industries, Inc. Tue Nov 17 09:12:43 2020 Page 1
ID:AghQBu5Dr6l_3dIx9kEaK2yqtL3-BsINuAo51dW_Yqh4zm?zX7zHqy2mRfBt9kBf3WylK2l



Scale = 1:13.3

Plate Offsets (X,Y) - [2:0-2-0,Edge]	6-5-13 6-5-13	6-6-6 0-0-8			
LOADING (psf)	SPACING 2-0-0	CSI	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-5-5, 3=6-5-5
Max Horz 1=21(LC 12)
Max Uplift 1=-25(LC 12), 3=-25(LC 13)
Max Grav 1=209(LC 1), 3=209(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



November 17, 2020

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

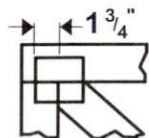
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
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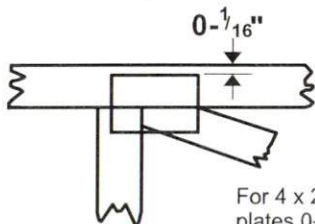
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

4 x 4

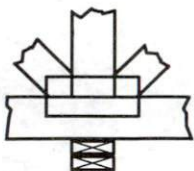
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

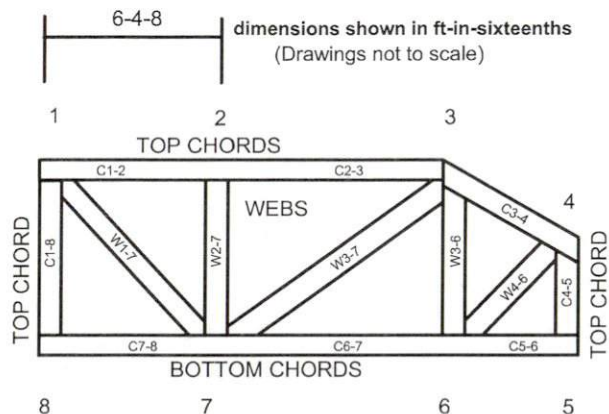


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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