

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

01/08/2021

Signature



ELEVATION NOTES:
GRADE ELEVATIONS SHOWN DO NOT NECESSARILY REFER TO THIS OR ANY OTHER LOT. THEY ARE FOR DIAGRAMMATIC PURPOSES ONLY AND MAY VARY. BUILDER IS RESPONSIBLE FOR ADAPTING THIS PLAN TO SUIT THE EXISTING TOPOGRAPHY OF THE SITE.

ROOF VENTILATION TO BE DETERMINED BY BUILDER AS PER CODE.

ALL EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MUST HAVE A MIN. NET CLEAR OPENING OF 4.0 SQ FT. THE MIN NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 27". THE MIN NET CLEAR OPENING WIDTH SHALL BE 20".

EACH EGRESS WINDOW FROM SLEEPING ROOMS MUST HAVE A SILL HEIGHT OF NO MORE THAN 44" FROM THE FLOOR. ALL WINDOW SIZES ARE NOMINAL AND ARE TO BE VERIFIED WITH MANUFACTURER FOR AVAILABILITY AND CONFORMITY TO STATE AND LOCAL CODE REQUIREMENTS.

PORCHES, BALCONIES, OR RAISED FLOOR SURFACES LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDRAILS NOT LESS THAN 37" IN HEIGHT.

I. ASSUME NO RESPONSIBILITY FOR ANY DISTANCES AFTER START OF CONSTRUCTION.
CONTRACTOR/BUILDER SHALL CONSULT WITH HOME OWNER ON ALL INTERIOR AND EXTERIOR HOLDINGS, TRIMS, COLORS, FINISHES, CABINET LAYOUTS, AND MANUFACTURERS BEFORE CONSTRUCTION BEGINS.
ALL BEAMS AND FRAMING MEMBERS ARE SIZED BY OTHERS.

1.1 This plan has been drawn to comply with the 2018 NC Building Code

- 1.2 Minimum Design Loads for Building and Other Structures ASCE T-9B
- 2 Roof Dead Load 115 P8F
- 3 Roof Live Load 20 P8F
- 4 Typical Floor Dead Load 10 P8F
- 5 Floor Live Loads
 - 5.1 Rooms other than sleeping rooms 40 P8F
 - 5.2 Sleeping Rooms 30 P8F
 - 5.3 Stairs 40 P8F
 - 5.4 Decks 40 P8F
 - 5.5 Exterior Balconies 60 P8F
- 6 Wind Loads
 - 6.1 Ultimate Design Wind Speeds 15 MPH
 - 6.2 Wind Importance Factor, I_w 1.00
 - 6.3 Exposure B
 - 6.4 Walls (Component and Cladding) 25 P8F
 - 6.5 Roofs (Component and Cladding)
 - 6.5.1 Roof Slopes 2.25/12 to 7/12 34.8 P8F
 - 6.5.2 Roof Slopes 7/12 to 12/12 21 P8F

It is the sole responsibility of the Contractor and/or Builder to conform to all standards, provisions, requirements, methods of construction and uses of materials provided in buildings and/or structures as required by NC Uniform Building Code, Local Agencies and in accordance with good engineering practices. Verify all dimensions prior to construction.



FRONT ELEVATION

SCALE: 1" = 1/4"



REAR ELEVATION

SCALE: 1" = 1/4"



RIGHT ELEVATION

SCALE: 1" = 1/4"



LEFT ELEVATION

SCALE: 1" = 1/4"

Diane Rivas Design
6205 Mockingbird Lane
Sanford, N.C. 27332
919-774-6081
golhuemr@charter.net

DRD
SCALE: 1/4" = 1'
DRAWN BY:
DATE: 8/20/2020

HARRINGTON PROPERTIES OF NC, LLC
2658 SAN LEE DRIVE
SANFORD NC 27330

LOT 4
47B MCARTHUR ROAD
GARAGE LEFT

ELEVATIONS

GENERAL FRAMING NOTES:

ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

FRAMING LUMBER SHALL BE SYP #2 GRADE AND/OR SPRUCE FINE FIR #1 AND/OR #2, KILN DRIED.

WHERE PRE-ENGINEERED JOISTS ARE USED, JOIST MANUFACTURER SHALL PROVIDE SHOP DRAWINGS, WHICH BEAR SEAL OF A N.C. ENGINEER.

STUDS AND JOISTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING WITHOUT ADDING METAL OR WOOD SIDE PANELS TO STRENGTHEN THE MEMBER TO ITS ORIGINAL CAPACITY.

NAIL MULTIPLE MEMBERS WITH 2 ROWS OF 16d NAILS STAGGERED 32" OC AN USE 3-16d NAILS 2" IN AT EACH END. DOUBLE ALL STUDS UNDER ROOF FOOTINGS UNO.

NAIL FLOOR JOISTS TO GILL FLATE WITH 8d TOE NAILS.

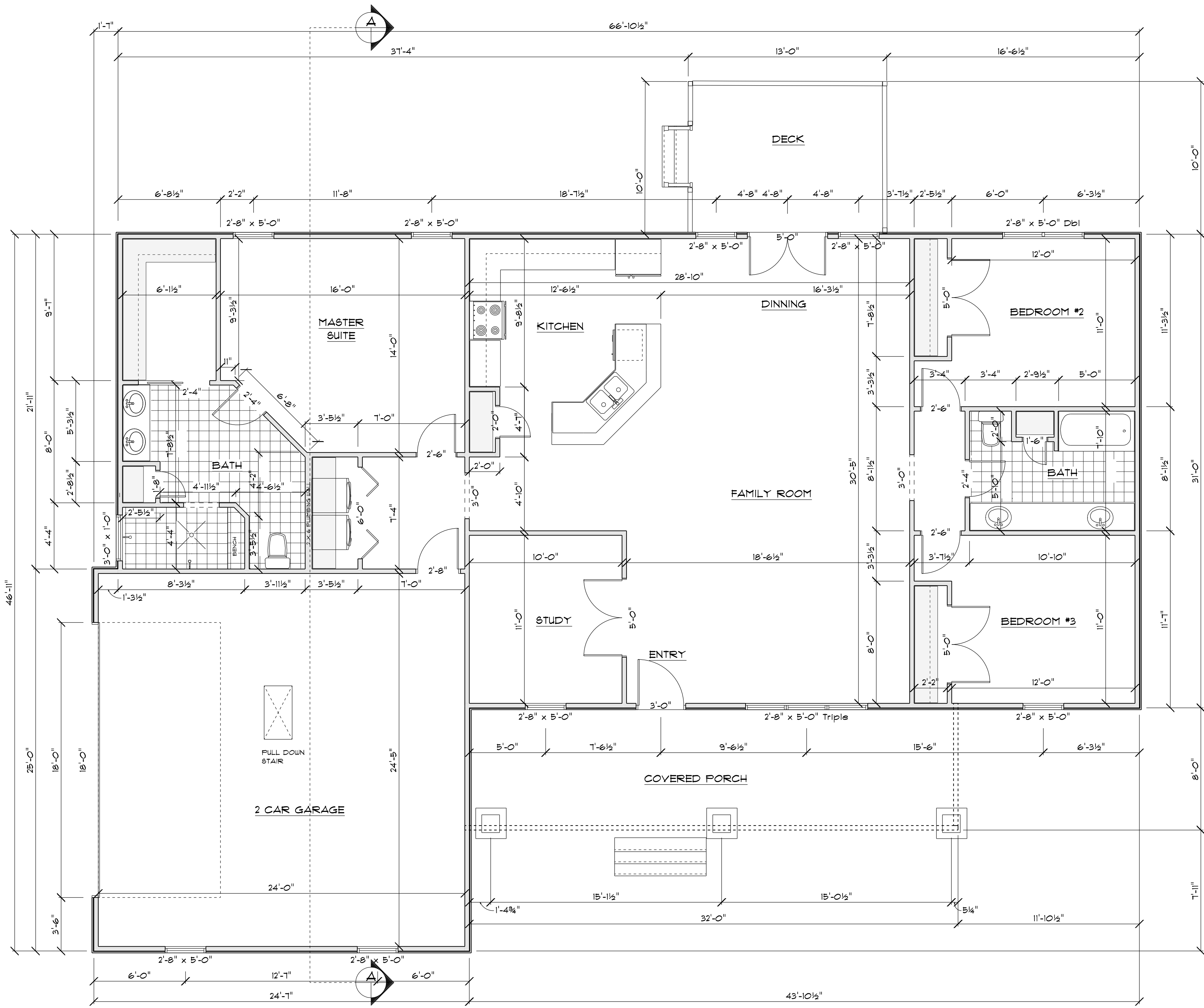
ALL EXPOSED FRAMING ON PORCHES AND DECKS SHALL BE PRESSURE TREATED. PROVIDE WATERPROOFING AND DRAINS AS REQUIRED.

ALL FRAMING TO BE 16" OC UNO. WALL FRAMING DIMENSIONS ARE BASED ON 2 X 4 STUDS UNO. DOUBLE STUDS UNDER ALL HEADERS.

LVL'S AND TJI'S TO BE SIZED BY OTHERS

EXTERIOR WALLS IN LIVING AREAS ARE 2 X 4

OPENING SCHEDULE			
SIZE	HINGE	COUNT	LIBRARY NAME
2'-8"	R	1	Exterior Door\Colonial
5'-0"	LR	1	Exterior Door\French
18'-0"	U	1	Garage
6'-0"	LR	1	Interior Door\Bifold
1'-6"	L	1	Interior Door\Colonial
1'-8"	R	1	Interior Door\Colonial
2'-0"	R	1	Interior Door\Colonial
2'-4"	L	1	Interior Door\Colonial
2'-4"	R	1	Interior Door\Colonial
2'-6"	L	1	Interior Door\Colonial
2'-6"	R	2	Interior Door\Colonial
5'-0"	LR	2	Interior Door\Colonial
5'-0"	LR	1	Interior Door\French
2'-4"	N	1	Interior Door\Pocket
3'-0"	L	1	Manufacturer\Jeld-Wen\Wood Entry\Classic\Oak
2'-8" x 5'-0"	U	1	Window\Double Hung
2'-8" x 5'-0"	U	10	Window\Double Hung
2'-8" x 5'-0" Dbl	UU	1	Window\Double Hung
2'-6" x 2'-6"	UU	1	Window\Double Hung
3'-0" x 3'-0"	UU	1	Window\Double Hung
3'-0" x 1'-0"	N	1	Window\Transom



FLOOR PLAN
SCALE: 1" = 1/4"

AREA SCHEDULE	
NAME	AREA
Heated Sq Ft	1894.1 sq ft.
Garage Sq Ft	616.7 sq ft.
Covered Porch Sq Ft	251.0 sq ft.
Treated Deck Sq Ft	193.7 sq ft.

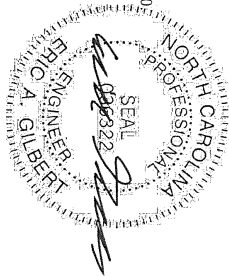
RE: P20-08023 - 475 McARTHUR RD
Site Information:
 Project Customer: Project Name:
 Lot/Block: Subdivision:
 Model:
 Address:
 City: State:
Trenco
 818 Soundside Rd
 Eden, NC 27932

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
 Design Code: IRC2018/TP12014 Design Program: MITek 20/20 8.3
 Wind Code: N/A Wind Speed: 130 mph Design Method: User defined
 Roof Load: 40.0 psf Floor Load: N/A psf
 Mean Roof Height (feet): 12 Exposure Category: B

No.	Seal#	Truss Name	Date
1	E14797303	M01	8/28/20
2	E14797304	T01	8/28/20
3	E14797305	T01GE	8/28/20
4	E14797306	T01SSE	8/28/20
5	E14797307	T02	8/28/20
6	E14797308	T02GE	8/28/20
7	E14797309	T03	8/28/20
8	E14797310	T04	8/28/20
9	E14797311	T05	8/28/20
10	E14797312	T07	8/28/20
11	E14797313	T07	8/28/20

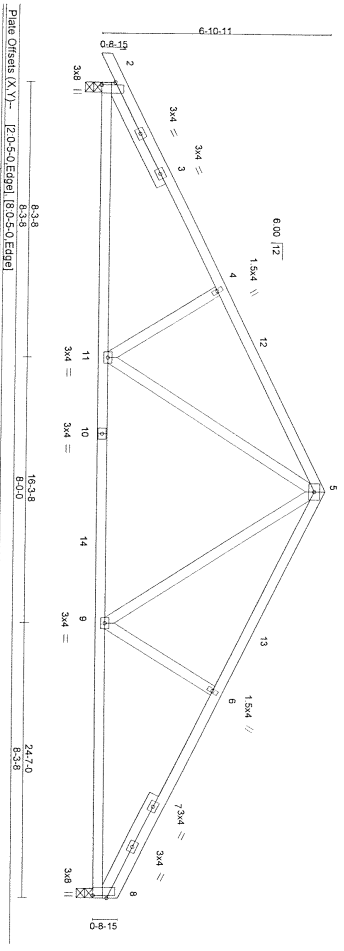
The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Longleaf Truss Company.
 Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2020
IMPORTANT NOTE: This 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 ANS/ITP 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 the reference purpose only, and was not taken into account in the preparation of these designs. MITek or TRENCO has not independently verified the design and therefore the designs for any particular building. Before use, the building designer shall verify the design and load data by the engineer who incorporated these designs into the overall building design per ANS/ITP 1, Chapter 2.



Gilbert, Eric
 August 28, 2020
 1 of 1

Job	Truss	Truss Type	Qty	4/9	McARTHUR RD	E-14737313
P20-08023	107	Common	1	1		
Longleaf Truss Company	West End, NC - 27376					
0-10-8	6-3-8	13-9-8	18-3-8	24-7-0	24-7-0	24-7-0
0-10-8	6-3-8	6-5-0	6-5-0	6-5-0	6-5-0	6-5-0
B-330 s JUL 22 2020 NTRK Industries, Inc. File Aug 28 09:26:04 2020 Page 1						
ID: w2GvYv0d0d9YvCP5hT7YjNBn-8DUvF8Zz2kxmpfJHtLz7G6qyRmHh6D0yM01						
Job Reference (optional)						
Scale = 1/4" = 0'						

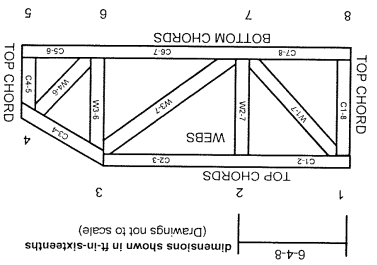


General Safety Notes

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 bracing themselves may require bracing, or alternative Tor 1.
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 fabrication. 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. Re-viewing 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.

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
 ESR-3907, ESR-2362, ESR-1397, ESR-3282



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 MITEK ENGINEERING INC.
 RENCO ENGINEERING INC.
 Mitek Engineering Reference Sheet, Mill-7473 rev. 5/19/2020

Symbols

PLATE LOCATION AND ORIENTATION

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

BEARING

Indicates location where bearings number where bearings occur.

PLATE LOCATION DETAILS AVAILABLE IN MITEK 20/20 software or upon request.

Plate location details available in MITEK 20/20 software or upon request.

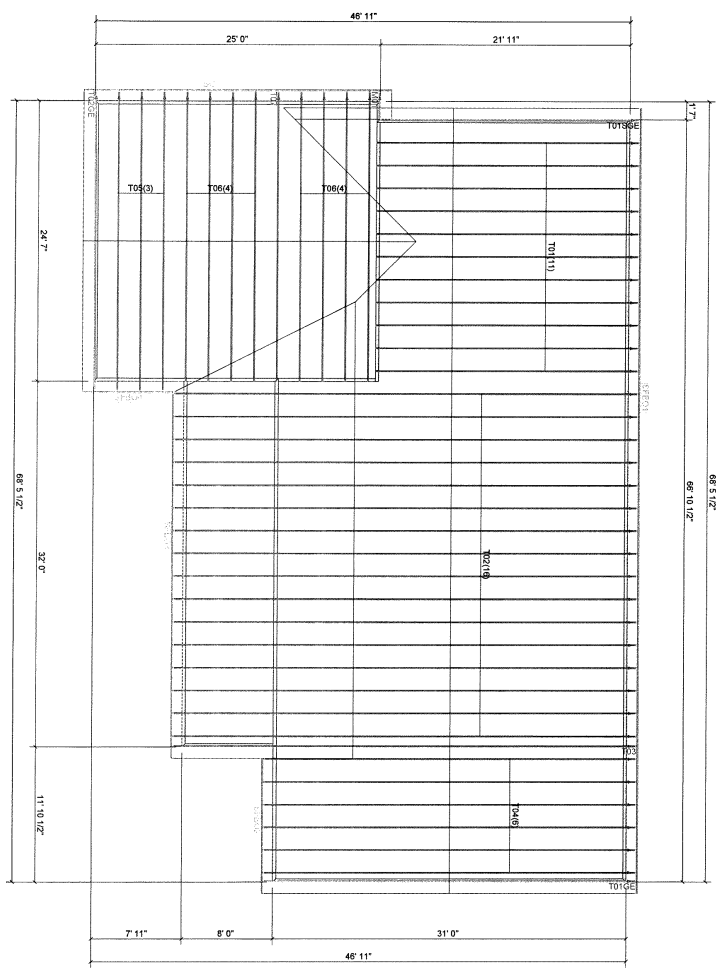
This symbol indicates the required direction of slots in connector plates.

For 4 x 2 orientation, locate plates 0-1/8" from outside edge of truss.

Industry Standards:
 ANSI/TPI: 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.

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.

Floor Area: 0 SF
 Roof Plywood: 0
 Roof Area: 3279.86 SF
 Roof Sheeting: 41 Squares



ROOF TRUSS LAYOUT
 148 - 11-19

Client: SERVICE BUILDING SUPPLY SANF
 Project: 475 McARTHUR RD
 Model: HARRINGTON PROP
 Lot #: / /
 Order #: P20-08023
 Designer: / /
 Date: / /

ONGLEAF RUSS CO.
 4476 Hwy. 21 W
 West End, NC 27376
 (910) 673-4711

NOTE
 IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PERREACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.
 THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTC1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION, DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY. SEE <http://support.abcdindustry.com/pubs/TTBDRsp-D>