

ADDRESS : 181 REMINGTON HILL DR  
 CONTRACTOR : GARY ROBINSON HOMES LLC  
 OWNER : ALBATROSS INVESTMENTS LLC  
 PARCEL : 01-0525-01- -0095- -30-  
 APPL NUMBER: 17-50042039 CP NEW RESIDENTIAL (SFD)  
 DIRECTIONS : T/S: 08/11/2017 08:55 AM JBROCK ----  
 GATEWEST #30 - REMINGTON HILL DR OFF ON  
 LEMUEL BLACK RD

SUBDIV: GATEWEST 53 LOTS  
 PHONE : (910) 977-2562  
 PHONE :

**STRUCTURE: 000 000 42X50 4BDR 2.5BA MONO W/ GARAGE**

FLOOD ZONE : FLOOD ZONE X  
 # BEDROOMS : 4000000.00  
 SEPTIC - EXISTING? : NEW TANK  
 PROPOSED USE : SFD  
 WATER SUPPLY : COUNTY

**PERMIT: CPSF 00 CP \* SFD**

| TYP/SQ  | REQUESTED<br>COMPLETED     | INSP<br>RESULT     | DESCRIPTION<br>RESULTS/COMMENTS  |
|---------|----------------------------|--------------------|--|
| A814 01 | 9/28/17<br>9/28/17         | SB<br>AP           | ADDRESS CONFIRMATION TIME: 17:00 VRU #: 003031200<br>181 REMINGTON HILL DR 28323<br>T/S: 09/28/2017 08:27 AM SBENNETT -----  |
| E207 01 | 9/28/17<br>9/28/17         | JH<br>AP           | R*ELEC TEMP SERVICE POLE TIME: 17:00 VRU #: 003031226<br>T/S: 09/27/2017 02:09 PM LLUCAS -----   |
| P309 01 | 9/28/17<br>9/28/17         | JH<br>AP           | R*PLUMB UNDER SLAB TIME: 17:00 VRU #: 003031218<br>T/S: 09/27/2017 02:09 PM LLUCAS -----   |
| B111 01 | 10/06/17<br>10/06/17       | JH<br>DA           | R*BLDG SLAB INSP/TEMP SVC POLE TIME: 17:00 VRU #: 003034725<br>T/S: 10/05/2017 09:03 AM BPETRICH -----<br>1)Remove stakes from footings on garage walls.2)Remove<br>loose dirt from bottom of footings.3)Missing front porch<br>post footing at garage corner per plans.4)Missing grade<br>markers in front porch footings.\ |
| B111 02 | 10/11/17<br>10/11/17       | JH<br>AP           | R*BLDG SLAB INSP/TEMP SVC POLE TIME: 17:00 VRU #: 003036712<br>T/S: 10/10/2017 08:16 AM DJOHNSON -----   |
| R425 01 | 12/06/17<br>12/06/17       | JH<br>DA           | FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 003062478<br>T/S: 12/05/2017 11:42 AM LLUCAS -----  |
| R425 02 | 12/07/17<br><i>12-7-17</i> | TI<br><i>of JH</i> | NOT READY MECHANICAL COMPANY STILL WORKING ON ROUGHIN<br>FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 003063179<br>T/S: 12/06/2017 11:24 AM JBROCK -----   |

COMMENTS AND NOTES

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

Re: 1214585R  
Gary Robinson - Stockton X

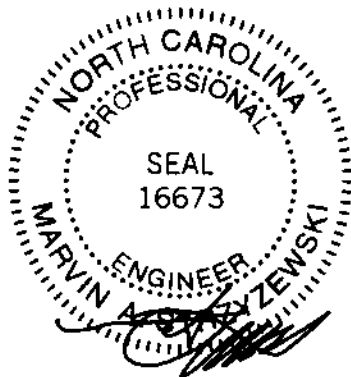
The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource (Albermarle,NC).

Pages or sheets covered by this seal: E11147837 thru E11147838

My license renewal date for the state of North Carolina is December 31, 2017.

North Carolina COA: C-0844

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



November 9, 2017

Strzyzewski, Marvin

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdictions(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 Trenco. Any project specific information included is for Trenco's customer's file reference purpose only, and was not taken into account in the preparation of these designs. 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 the design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

|                 |             |                     |          |          |                            |
|-----------------|-------------|---------------------|----------|----------|----------------------------|
| Job<br>1214588R | Truss<br>C2 | Truss Type<br>ATTIC | Qty<br>2 | Ply<br>1 | Gary Robinson - Stockton X |
|-----------------|-------------|---------------------|----------|----------|----------------------------|

Builders FirstSource, Albemarle, NC 28001  
 Job Reference (optional)  
 7.640 e Apr 22 2016 Mitek Industries, Inc. Thu Nov 09 14 25 26 2017 Page 1  
 ID: QbCVyA2VU54keudqArvi4oyw6XT-IEUX3wH6gPwKmpBr41Bu9r3F9KorK24BhIVUa8yKv5N

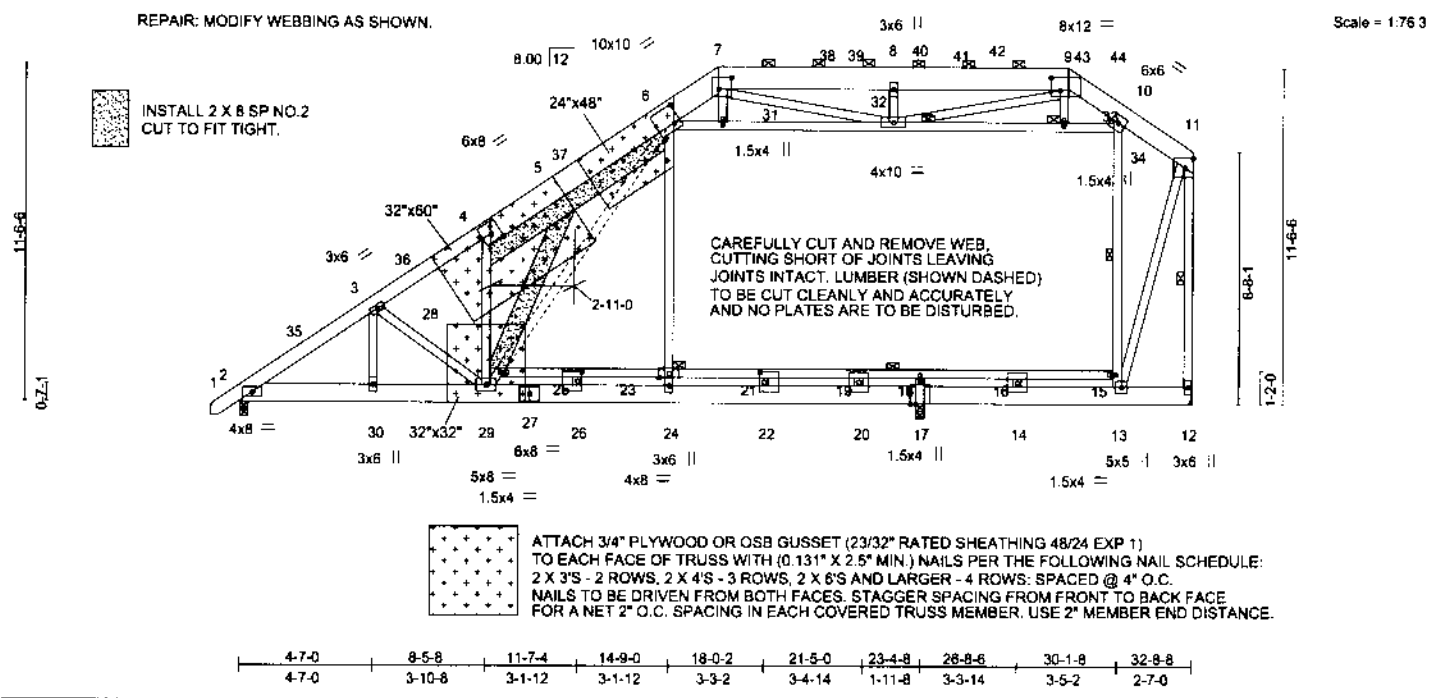


Plate Offsets (X,Y) - [4.0-4.0-0.0-3-8], [5.0-1-7.0-9-8], [6.0-2-12.0-7-4], [7.0-5-4.0-4-12], [9.0-3-12.0-5-8], [17-Edge.0-0-0], [21.0-1-12.0-4-0], [25.0-1-12.0-4-0]

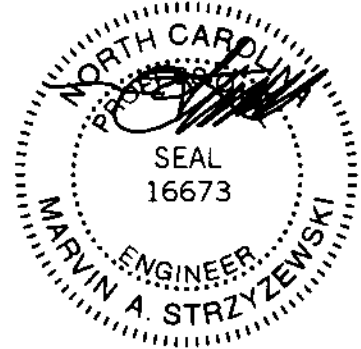
| LOADING (psf)          | SPACING-             | CSI.     | DEFL.                         | PLATES         | GRIP     |
|------------------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL (roof) 20.0       | Plate Grip DOL 1.15  | TC 0.71  | in (loc) l/defl L/d           | MT20           | 244/190  |
| Snow (Pf/Pg) 20.4/20.0 | Lumber DOL 1.15      | BC 0.39  | Vert(LL) -0.49 24-26 >571 360 | MT18HS         | 244/190  |
| TCDL 10.0              | Rep Stress incr YES  | WB 0.97  | Vert(TL) -1.00 24-26 >278 240 |                |          |
| BCLL 0.0               | Code IRC2009/TPI2007 | (Matrix) | Horz(TL) 0.01 12 n/a n/a      |                |          |
| BCDL 10.0              |                      |          | Wind(LL) 0.19 24-26 >999 240  |                |          |
|                        |                      |          |                               | Weight: 410 lb | FT = 20% |

| LUMBER-  | BRACING-  |
|--|---|
| TOP CHORD 2x10 SP DSS *Except*<br>9-11: 2x8 SP DSS, 1-4: 2x6 SP DSS, 4-6: 2x8 SP No.2                        | TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except at end verticals, and 2-0-0 oc purlins (6-0-0 max.); 7-9 |
| BOT CHORD 2x8 SP DSS *Except*<br>15-23,23-28: 2x4 SP DSS   | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 12-13.   |
| WEBS 2x4 SP DSS *Except*<br>4-29,14-18,5-29: 2x4 SP No.2<br>11-12,25-26,17-18,19-20,21-12,11-13: 2x4 SP No.3 | WEBS 1 Row at midpt 10-13, 15-23, 11-12<br>JOINTS 1 Brace at Jt(s): 32, 33, 23  |

**REACTIONS.** (lb/size) 2=1073/0-3-8, 12=808/Mechanical, 17=571/0-3-8  
 Max Horz 2=229(LC 11)  
 Max Uplift 2=-10(LC 12), 12=-12(LC 12)  
 Max Grav 2=1105(LC 23), 12=843(LC 22), 17=588(LC 23)

**FORCES.** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/20, 2-3=-175/151, 3-4=-1566/51, 4-5=-2518/123, 5-6=-536/68, 6-7=-1587/126, 7-8=-1510/197, 8-9=-1511/197, 9-10=-324/140, 10-11=-132/136, 11-12=-982/85  
 BOT CHORD 2-30=-205/1429, 29-30=-205/1429, 26-29=-76/356, 24-26=-76/356, 22-24=-75/303, 20-22=-75/303, 17-20=-75/303, 14-17=-75/303, 13-14=-75/303, 12-13=-68/83  
 WEBS 4-29=-1911/173, 23-24=-69/163, 6-23=-29/198, 13-15=-1302/193, 15-34=-1308/201, 10-34=-1388/203, 21-23=-12/232, 19-21=-12/232, 18-19=-12/232, 16-18=-12/232, 15-16=-12/232, 7-31=-338/35, 7-32=-1139/0, 8-32=-276/88, 9-32=-173/1730, 9-33=0/94, 25-28=-12/161, 23-25=-12/161, 25-26=-24/73, 3-30=0/132, 17-18=-134/0, 19-20=-5/17, 21-22=-22/50, 14-16=-11/10, 11-13=-135/1513, 3-29=-159/75, 28-29=-181/2444, 5-28=-175/2437, 6-31=-81/1680, 31-32=-74/1610, 32-33=-81/738, 33-34=-826/36

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-05; 100mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) -0-10-9 to 2-4-11, Interior(1) 2-4-11 to 16-5-0, Exterior(2) 16-5-0 to 32-7-0 zone; cantilever left and right exposed; and vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCLL: ASCE 7-05; Pr=20.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.1, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs with other live loads.



| Job      | Truss | Truss Type | Qty | Ply | Job Reference (optional)   |
|----------|-------|------------|-----|-----|----------------------------|
| 1214586R | G2    | ATTIC      | 2   | 1   | Gary Robinson - Stockton X |

Buildings FirstSource, Albemarle, NC 28001

7.640 e Apr 22 2016 MiTek Industries, Inc. Thu Nov 09 14:25:26 2017 Page 2  
 ID:QbCVyA2VU54keudqArvi4oyw6XT-tEUX3wH6gPwkmpBr41Bu9r3F9KdrK248h1VUa8yKv5N

**NOTES-**

- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) All plates are 6x8 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Ceiling dead load (5.0 psf) on member(s). 21-23, 19-21, 18-19, 16-18, 15-16, 25-28, 23-25, 6-31, 31-32, 32-33, 33-34; Wall dead load (5.0psf) on member(s).25-26, 21-22
- 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 24-26, 22-24
- 13) Refer to girder(s) for truss to truss connections.
- 14) Bearing at joint(s) 17 considers parallel to grain value using ANSIT/PI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 2 and 12 lb uplift at joint 12.
- 16) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Attic room checked for L/360 deflection.

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

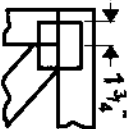
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 ANSIT/PI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY  
**TRENCO**  
 A MITek Affiliate

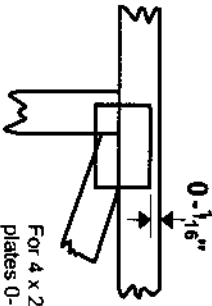
818 Soundside Road  
 Edenton, NC 27932

# 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 MITrak 20/20 software or upon request.

## PLATE SIZE

4 X 4

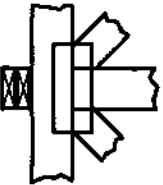
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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



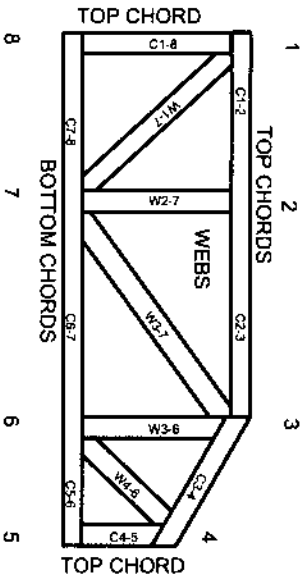
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSR-88: 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

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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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# 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 Top 1 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 purflins 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.

