PREPARED 12/04/17, 14:08:48 INSPECTION TICKET PAGE
Harnett County INSPECTOR: IVR DATE

Harnett County INSPECTOR: IVR DATE 12/05/17

ADDRESS . : 81 FOLLY CT SUBDIV: SWEETWATER 71LOTS CONTRACTOR : ATLANTIC CONSTRUCTION PHONE : (910) 938-9053

OWNER . . : DIVERSIFIELD INVESTORS INC PHONE :

PARCEL . . : 01-0544- - -0004- -59-

APPL NUMBER: 17-50041034 CP NEW RESIDENTIAL (SFD)
DIRECTIONS: T/S: 03/27/2017 09:25 AM DJOHNSON --

SWEETWATER LOT 51

T/S: 03/27/2017 09:36 AM DJOHNSON --

### STRUCTURE: 000 000 53X40 3BD 2BA SLAB W/GARAGE

FLOOD ZONE . . . : FLOOD ZONE X

# BEDROOMS . . . . . : 3.00 PROPOSED USE . . . . . : SFD SEPTIC - EXISTING? . . . : NEW WATER SUPPLY . . . . . . : COUNTY

TYP/SQ			DESCRIPTION RESULTS/COMMENTS
A814 01	10/06/17	SB	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 003034832
	10/06/17	AP	81 FOLLY CT LINDEN 28356 T/S: 10/06/2017 10:04 AM SBENNETT
B101 01	10/06/17	JН	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 003034840
	10/06/17	AP	T/S: 10/05/2017 10:28 AM LLUCAS
B103 01	10/11/17	JH	R*BLDG FOUND & TEMP SVC POLE TIME: 17:00 VRU #: 003036720
	10/11/17	AP	T/S: 10/10/2017 08:17 AM LLUCAS
P309 01	10/18/17	JН	R*PLUMB UNDER SLAB TIME: 17:00 VRU #: 003040284
	10/18/17	AP	T/S: 10/17/2017 09:57 AM BPETRICH
B111 01	10/24/17	ЈН	R*BLDG SLAB INSP/TEMP SVC POLE TIME: 17:00 VRU #: 003042827
	10/24/17	AP	T/S: 10/23/2017 09:38 AM LLUCAS
R425 01	11/22/17	JH	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 003056710
	11/22/17	CA	T/S: 11/21/2017 09:09 AM BPETRICH
R425 02	11/28/17	TSG	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 003057791
	11/28/17	DA	T/S: 11/27/2017 08:07 AM LLUCAS
B104 01	11/30/17	BP	R*FOUND & SETBACK VERIF SURVEY TIME: 17:00 VRU #: 003059946
		AP	T/S: 11/30/2017 10:45 AM BPETRICH
R425 03	12/05/17 <b>12-577</b>	To Th	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 003061959  T/S: 12/04/2017 12:56 PM LLUCAS



### Trenco

818 Soundside Rd Edenton, NC 27932

Re: 1238306

Atlantic Const.JAX. Christian Plan

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-Loris.

Pages or sheets covered by this seal: I31771114 thru I31771115

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

North Carolina COA: C-0844



November 30,2017

Komnick, Chad

**IMPORTANT NOTE:** Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job Truss Truss Type Qty Ply Allantic Const. JAX. Christian Plan 131771114 1238306 D01 2 UNITS YE Piggyback Base 1 OF 2 Job Reference (optional) Builders FirstSource Loris, SC 29569 7.640 s Aug 16 2017 MiTek Industries, Inc. Wed Nov 29 13:55:29 2017 Page 1 ID.2p14j2tVg7BETBnuDa14bNzP6bU-R3RP?wXudtiFOebztjjiL?amFeRq2brD0H0zYAeyEInC BREAK IN BOTTOM CHORD IN THE MIDDLE OF PANEL 10-11 6x8 Scale = 1:91.5 8x8 16 12.00 112 17 4x5 📎 12-8-0 2x8 3x5 5x7 || 21 22 10 BREAK 6 00 12 3x5 = 5x6 = 5x8 < APPLY 2 X 4 X 4" SPF/0F/5P NO 2 SCAB(S) TO EACH FACE OF TRUSS CENTERED ON BREAK, ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 ROWS:
SPACED & "4" O.C. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 2" O.C. SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE. 7-11-14 Plate Offsets (X,Y)-- [3:0-3-4,0-3-0], [4:0-6-1,0-3-0], [5:0-5-8,0-3-0], [10:0-4-0.0-2-8], [12:0-2-11,0-2-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) 1/defi 1 /d **PLATES** GRIP 20.0 Plate Grip DOL TCLL TC -0.15 10-11 0.84 244/190 1.15 Vert(LL) >999 360 MT20 TCDL 10.0 Lumber DOL BC 1.15 0.72 Vert(TL) -0.43 10-11 >867 240 **BCLL** 0.0 1 Rep Stress Incr YES WB 0.81 Horz(TL) 0.19 n/a n/a BCDL Code IRC2009/TPI2007 (Matrix-M) Wind(LL) 0.10 >999 240 Weight: 234 lb FT = 20% 11 LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins, except

BOT CHORD

WEBS

TOP CHORD 2x4 SP No.2 \*Except\*

4-5: 2x6 SP No.2

BOT CHORD 2x4 SP No.2

WEBS. 2x4 SP No.2 \*Except\*

3-11.4-11.6-9.3-12.6-8; 2x4 SP No.3

REACTIONS. (lb/size) 12=1291/0-3-8, 8=1227/0-3-8

Max Horz 12=481(LC 9)

Max Uplift 12=-357(LC 12), 8=-295(LC 13) Max Grav 12=1291(LC 1), 8=1249(LC 2)

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

TOP CHORD 2-13=-486/385, 3-13=-427/412, 3-14=-2409/705, 4-14=-2315/745, 4-15=-1126/488,

15-16=-1126/488, 5-16=-1126/488, 5-17=-1623/628, 6-17=-1721/588, 6-18=-274/286,

7-18=-382/263, 2-12=-568/449, 7-8=-399/282

BOT CHORD 11-12=-768/1703, 10-11=-482/1128, 10-19=-195/807, 19-20=-195/807, 9-20=-195/807, 9-21=-213/1021, 21-22=-213/1021, 8-22=-213/1021

WEBS 3-11=-198/324, 4-11=-571/1530, 4-10=-484/439, 5-9=-255/590, 6-9=-326/378,

3-12=-2134/375, 6-8=-1491/266

#### (11)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable and zone and C-C Extenor(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-6-0, Exterior(2) 10-6-0 to 24-8-15, Interior(1) 24-8-15 to 30-10-4 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Provide adequate drainage to prevent water ponding.
- 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 BCDL = 10.0psf.
- 7) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=357, 8 = 295.
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSLTPI 1 as referenced by the building code

end verticals, and 2-0-0 oc purins (4-6-8 max.): 4-5. Rigid ceiting directly applied or 6-6-1 oc bracing.

4-10, 5-10, 3-12, 6-8

1 Row at midpt

wis and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 (NV. 10/03/2018 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracking indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and parameter bracking is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and parameter bracking is always required for stability and to prevent collapse with possible personal (n]ury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracking of trusses and truss systems, see

Application Application and Bracking of trusses and truss systems, see

Application (N) 2014.



Edenton, NC 27932

Job Truss Truss Type Qty Piv Atlantic Const.JAX. Christian Plan 131771116 1238300 A02 Common 2 OF 2 Job Reference (optional). 2 OF 2 7.840 s Aug 18 2017 MITek Industries, Inc. Thu Nov 30 09:01:53 2017 Page Builders FirstSource, Loris, SC ID:2p14j2tVg7BETBnuDa14bNzP6bU-0bjGK8uRwf\_KT5LnSJeo2Uby5hkPooxP8\$2INpyE2\_S 18-7-9 0-1-0 0-1-0 4-8-10 9-8-10 14-8-10 4-8-10 5-0-0 5-0-0 3-10-14 4x8 ... STUB 1" FROM THE LEFT END Scale = 1:69 8 2x4 =LUMBER AND CONNECTOR PLATES (SHOWN DASHED) TO BE 24 = GUT CLEANLY AND ACCURATELY AND THE REMAINING PLATE(S) MUST BE FULLY EMBEDDED AND UNDISTURBED. 12.00 12 GUSSETS MAY BE TRIMMED TIGHT TO SINGLE PLY HANGER 2x4 2x4 || 6 (HANGER BY OTHERS) 2-0-0 21 4x8 M18SHS II 1-11-12 -2-0 Ш 12 10 4x5 = 11 4x5 4x5 4x5 = 9 4x10 || 5x6 6x8 = 4x5 = 4x6 = AXD—
ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1)
TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE:
2 X 3"S - 2 ROWS, 2 X 4"S - 3 ROWS, 2 X 6"S AND LARGER - 4 ROWS: SPACED @ 4" O.C.
NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE
FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE. INSTALL 2 X 6 X 2' SPF/DF/SP NO.2 CUT TO FIT TIGHT. -0-1-Q 0-1-0 14-8-10 . 4-8-10 9-8-10 18-7-6 4-8-10 5-0-0 Plate Offsets (X,Y)-- [1:0-5-10,0-3-0], [4:0-3-0,Edge], [8:0-4-8,0-0-0], [9:0-2-8,0-2-0], [11:0-0-0,0-2-0] LOADING (psf) SPACING-CSI. 2-0-0 DEFL. l/defi **PLATES** GRIP (loc) L/d TCLL 20.0 Plate Grip DOL TC 1.15 0.83 Vert(LL) -0.179-11 >999 360 MT20 244/190 TODL 10.0 Lumber DOL BC 1 15 0.65Vert(TL) -0.369-11 >621 240 M18SHS 244/190 0.0 BCLL Rep Stress Incr YES WB. 0.33 Horz(TL) 0.06 n/a n/a BCDL Code IRC2009/TPI2007 10.0 (Matrix-M) Wind(LL) 0.20 11 >999 240 Weight: 150 lb FT = 20%LUMBER-BRACING-TOP CHORD

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 "Except" 7-8: 2x4 SP No.2

SLIDER Left 2x6 SP No.2 2-6-0

REACTIONS. (lb/size) 1=739/Mechanical, 8≈739/0-3-8

Max Horz 1=382(LC 11)

Max Uplift 1-195(LC 12), 8-189(LC 13) Max Grav 1=814(LC 22), 8=841(LC 21)

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

TOP CHORD 1-17=-1095/209, 2-17=-958/220, 2-18=-755/272, 18-19=-710/286, 3-19=-662/294,

5-20=-888/295, 6-20=-781/287, 6-21=-991/204, 7-21=-1110/196, 7-8=-1018/226

BOT CHORD 1-12-505/877, 11-12-107/583, 10-11-107/584, 9-10-107/584, 8-9-107/583

2-11=-64/370, 6-9=-54/387, 3-5=-1104/496 WEBS

#### NOTES-(11)

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

- 2) Wind: ASCE 7-05; 120mph; TCDL=6.0psf; BCDL=6.0psf; h=25ff; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable and zone and C-C Exterior(2) 0-1-0 to 3-1-0, Interior(1) 3-1-0 to 9-9-10, Exterior(2) 9-9-10 to 12-9-10 zone; cantilever left and right exposed; end 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.

4) All plates are MT20 plates unless otherwise indicated.

- 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 BCDL = 10.0psf.

Refer to girder(s) for truss to truss connections.

- 8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPt 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 (bluplift at joint 1 and 189 lbluplift at
- 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
- 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

N KOW

Structural wood sheathing directly applied or 5-8-2 oc purlins, except

Rigid ceiling directly applied or 9-8-7 oc bracing

end verticals

BOT CHORD

WARRIENG - Verify design parameters and READ NOTES ON THIS AND INCLUDED INTEK REFERENCE PAGE IM-7473 rev. 10/03/2016 BEFORE USE.

Design valid for use only with MITee® 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 well 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 fibrication, storage, delivery, erection and bracing of trusses and fluxs systems, see

Safety information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



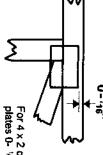
Edenton, NC 27932

## Symbols

# PLATE LOCATION AND ORIENTATION



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



For 4 x 2 crientation, locate plates 0- 'nd' from outside edge of truss.

œ

σ

O

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 × 4

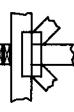
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

# 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



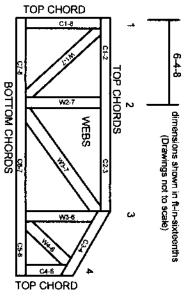
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

### Industry Standards: ANSI/TPI1: National I

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

DSB-89

# **Numbering System**



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWASE 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 section 6.3 These truss designs rely on lumber values established by others.

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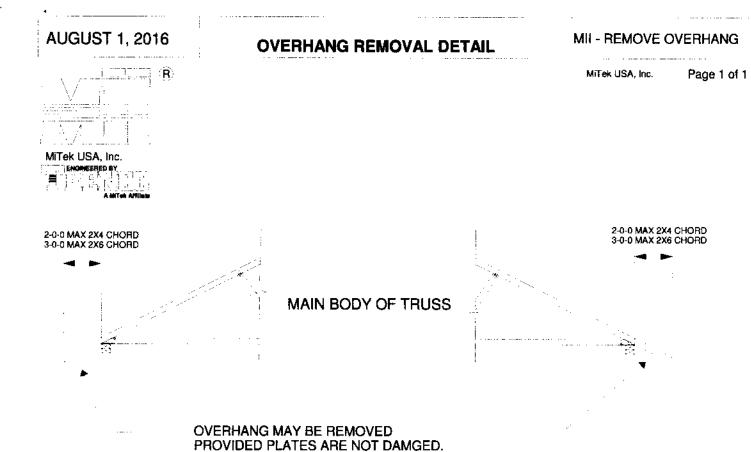
MiTek Engineering Reference Sheet: MIL-7473 rev. 10/03/2015

## stem

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

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



### NOTES:

- 1) FOR LUMBER SIZE AND GRADE, AND FOR PLATES TYPE AND SIZE AT EACH JOINT REFER TO MAIN TRUSS ENGINEERING DESIGN.
- 2) LOADING: SEE MAIN TRUSS ENGINEERING DESIGN.