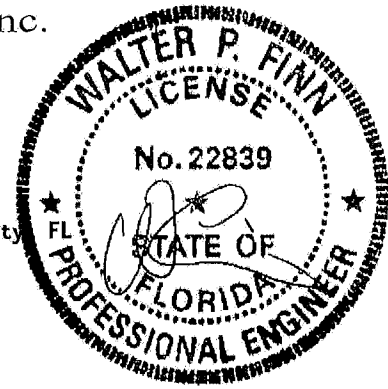


# ITW Building Components Group, Inc.

2400 Lake Orange Drive suite 150 Orlando FL 32837  
Florida Engineering Certificate of Authorization Number 0 278  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID IV3B487-Z0224151353



01/24/2014

Truss Fabricator **Anderson Truss Company**  
Job Identification **14-005C--BRYAN ZECHER /Jones/Goodson Residence -- Lake City**  
Truss Count **48**  
Model Code **Florida Building Code 2010**  
Truss Criteria **FBC2010Res/TPI-2007(STD)**  
Engineering Software **Alpine Software, Versions 12.03, 13.02.**  
Structural Engineer of Record **The identity of the structural EOR did not exist as of**  
Address **the seal date per section 61615-31.003(5a) of the FAC**  
Minimum Design Loads **Roof - 37.0 PSF @ 1.25 Duration**  
**Floor - N/A**  
**Wind - 120 MPH ASCE 7-10 -Closed**

## Notes

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR9114

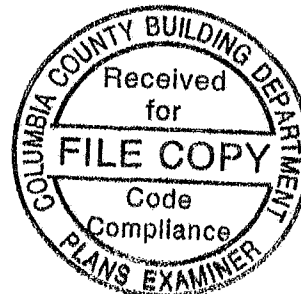
Walter P. Finn  
-Truss Design Engineer-

1950 Marley Drive  
Haines City, FL 33844

Details: 12015EC1-GBLLETIN-GABRST10-BRCLBSUB-

| #  | Ref         | Description    | Drawing# | Date     |
|----|-------------|----------------|----------|----------|
| 1  | 69273--A    | 25' Common     | 14024160 | 01/24/14 |
| 2  | 69274--A1   | 25' Common     | 14024161 | 01/24/14 |
| 3  | 69275--A2   | 8'11"8 Mono    | 14024162 | 01/24/14 |
| 4  | 69276--AGE  | 25' Gable      | 14024194 | 01/24/14 |
| 5  | 69277--AGE2 | 11'4" Gable    | 14024195 | 01/24/14 |
| 6  | 69278-B1    | 22'11" Common  | 14024163 | 01/24/14 |
| 7  | 69279-B2    | 22'9"8 Common  | 14024207 | 01/24/14 |
| 8  | 69280--BGE  | 9'4" Gable     | 14024164 | 01/24/14 |
| 9  | 69281--BGE1 | 22'11" Comm    | 14024202 | 01/24/14 |
| 10 | 69282-C     | 39'11"8 Specia | 14024165 | 01/24/14 |
| 11 | 69283-C1    | 48'3"8 Specia  | 14024166 | 01/24/14 |
| 12 | 69284-C2    | 48'3"8 Specia  | 14024203 | 01/24/14 |
| 13 | 69285-C3    | 48'3"8 Specia  | 14024167 | 01/24/14 |
| 14 | 69286--CJ1  | 1'4"3 Jack     | 14024168 | 01/24/14 |
| 15 | 69287--CJ1A | 1'9"8 Jack     | 14024169 | 01/24/14 |
| 16 | 69288-CJ2   | 1'10"14 Jack   | 14024170 | 01/24/14 |
| 17 | 69289-CJ2A  | 1'6"14 Jack    | 14024171 | 01/24/14 |
| 18 | 69290--CJ3  | 4'0"3 Jack     | 14024172 | 01/24/14 |
| 19 | 69291--CJ3A | 4'5"8 Jack     | 14024173 | 01/24/14 |
| 20 | 69292--CJ4  | 3'4"14 Jack    | 14024174 | 01/24/14 |
| 21 | 69293-CJ4A  | 3'0"14 Jack    | 14024175 | 01/24/14 |
| 22 | 69294--CJ5  | 6'8"3 Jack     | 14024176 | 01/24/14 |
| 23 | 69295--CJ5A | 7'1"8 Jack     | 14024177 | 01/24/14 |
| 24 | 69296-CJ6   | 4'10"14 Jack   | 14024178 | 01/24/14 |
| 25 | 69297-CJ6A  | 4'6"14 Jack    | 14024179 | 01/24/14 |
| 26 | 69298--CJ8  | 6'4"14 Jack    | 14024180 | 01/24/14 |
| 27 | 69299-CJ8A  | 6'0"14 Jack    | 14024181 | 01/24/14 |
| 28 | 69300--EJ7  | 7' End Jack    | 14024182 | 01/24/14 |
| 29 | 69301-EJ7A  | 7' End Jack    | 14024183 | 01/24/14 |
| 30 | 69302-EJ7B  | 6'8" End Ja    | 14024184 | 01/24/14 |
| 31 | 69303-EJ7C  | 6'5"8 End J    | 14024185 | 01/24/14 |
| 32 | 69304-H7    | 39'11"8 Mono   | 14024204 | 01/24/14 |
| 33 | 69305-H7A   | 33'3"8 Mono    | 14024205 | 01/24/14 |
| 34 | 69306-HJ7   | 11'7"7 Hip J   | 14024206 | 01/24/14 |
| 35 | 69307-HJ7A  | 12'2"2 Hip     | 14024196 | 01/24/14 |
| 36 | 69308-HJ7B  | 11'3"4 Hip     | 14024197 | 01/24/14 |

| #  | Ref        | Description  | Drawing# | Date     |
|----|------------|--------------|----------|----------|
| 37 | 69309-H9   | 39'11"8 Mono | 14024186 | 01/24/14 |
| 38 | 69310-H9A  | 33'3"8 Mono  | 14024187 | 01/24/14 |
| 39 | 69311-H11  | 39'11"8 Mono | 14024188 | 01/24/14 |
| 40 | 69312-H11A | 33'3"8 Mono  | 14024189 | 01/24/14 |
| 41 | 69313-H13  | 39'11"8 Mono | 14024190 | 01/24/14 |
| 42 | 69314-H13A | 33'3"8 Mono  | 14024191 | 01/24/14 |
| 43 | 69315-H15  | 39'11"8 Step | 14024192 | 01/24/14 |
| 44 | 69316-H15A | 31'11" Mono  | 14024193 | 01/24/14 |
| 45 | 69317-H17A | 41'3" Mono   | 14024198 | 01/24/14 |
| 46 | 69318-H19A | 41'3" Mono   | 14024199 | 01/24/14 |
| 47 | 69319-H21A | 41'3" Mono   | 14024200 | 01/24/14 |
| 48 | 69320-H23A | 43'7" Mono   | 14024201 | 01/24/14 |



(14-005C--BRYAN ZECHER / Jones/Goodson Residence -- Lake City, FL - A 25 Common)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP 2850F-2 3E T2 T3 2x6 SP M-26  
Bot chord 2x8 SP SS-13B B2 2x4 SP #1-13B  
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved  
1/30/2013 by ALSC

Calculated horizontal deflection is 0.15' due to live load and 0.27'  
due to dead load

BC attic room floor loading LL = 40.00 psf, DL = 10.00 psf, from  
7'-0" to 18'-0"

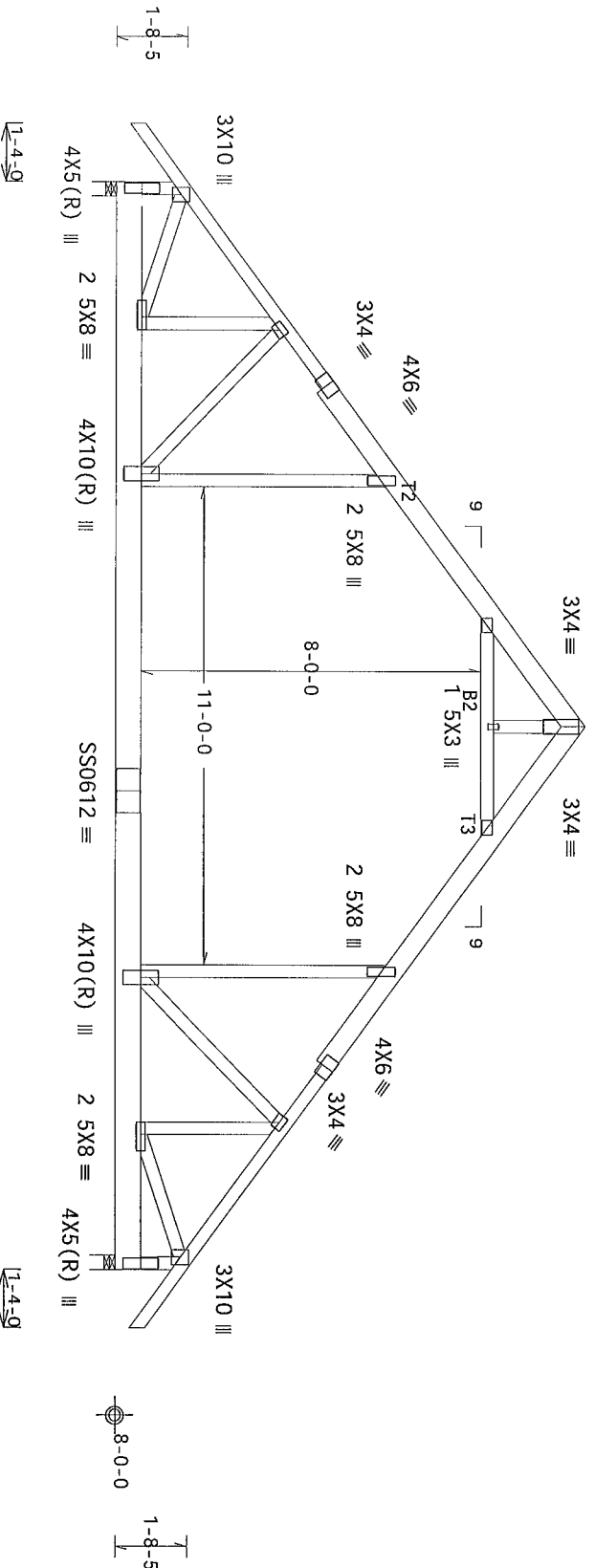
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3.5 psf, wind BC  
DL=5.0 psf GCPI(+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member  
design

Bottom chord checked for 10.00 psf non-concurrent live load

Collar-tie braced with continuous lateral bracing at 24" OC or rigid  
ceiling

Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1.50



PLT TYP 18 Gauge HS, Wave

Design Crit FBC2010Res/TPI-2007(STD)  
FT/RT=20%(0%)/10(0)

QTY: 9 FL/-/5/-/-/R/-

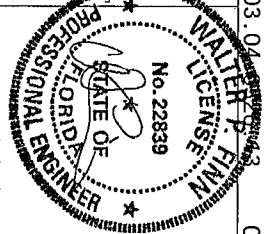
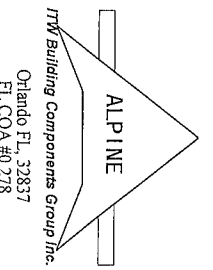
Scale = .25"/Ft.

R=1829 U=161 W=4" (4" min)  
RL=279/-279

\*\*IMPORTANT\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET.  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, shipping, handling, installing and bracing. Refer to and follow the latest edition of BCS1 (Building Component Safety Information by TPI and WTC) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCS1. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCS1. See also BCS1 for details on bracing and bottom chord.

TPI Building Components Group Inc. (TBCGI) shall not be responsible for any deviation from this design or any modification made to the design. The responsibility for the design shown and the use of this design for any structure is the responsibility of the building designer. The suitability and use of this design for any structure is the responsibility of the building designer. Refer to drawings 1600-Z for standard plate position. A seal on this drawing or cover page listing this drawing and cases acceptance of professional engineering near the responsible party for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer. For more information see TPI www.tpi.com WTC www.wtc.com



|           |          |        |                   |
|-----------|----------|--------|-------------------|
| TC LL     | 20.0 PSF | REF    | R9114- 69273      |
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | HCSR9114 14024160 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WPF            |
| TOT. LD.  | 37.0 PSF | SEQN-  | 344042            |
| DUR. FAC. | 1.25     | FROM   | JMM               |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02       |

(14-005C--BRYAN ZECHER /Jones/Goodson Residence -- Lake City FL - A1 25' Common)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B T2, T3 2x6 SP SS-13B  
Bot chord 2x8 SP #1 Dense-13B B2 2x4 SP #1-13B  
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Calculated horizontal deflection is 0.17" due to live load and 0.29" due to dead load

BC attic room floor loading LL = 40.00 psf DL = 10.00 psf, from 7'-0" to 18'-0"

MMFRS loads based on trusses located at least 15.00 ft from roof edge

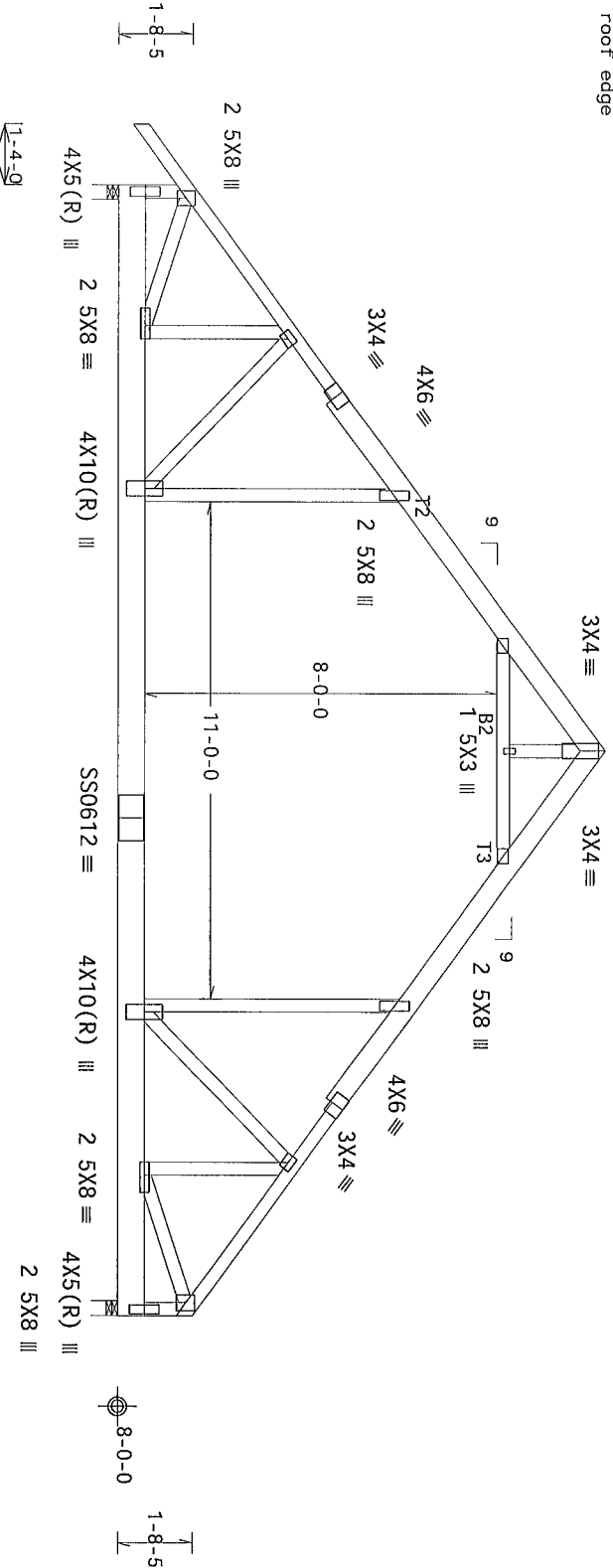
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=3.5 psf, wind BC DL=5.0 psf GCPI(+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member design

Bottom chord checked for 10.00 psf non-concurrent live load

Collar-tie braced with continuous lateral bracing at 24" OC or rigid ceiling

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



12-6-0 9-11-12 4-0-4 1-0-4 12-6-0 9-11-12  
25-0-0 Over 2 Supports  
R=1838 U=12 W=4" (4" min)  
RL=248/-262  
R=1750 U=5 W=4" (4" min)

PLT TYP 18 Gauge HS, Wave Design Crit FBC2010Res/TPI-2007(STD) FT/RT=20%(0%)/10(0)

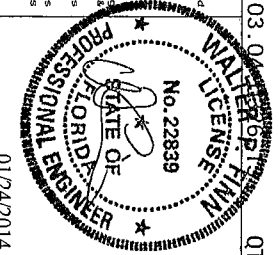
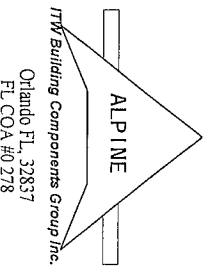
12.03.00 QTY: 3 FL/-/5/-/-/R/-

Scale = .25"/Ft.

\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) Information on by TPI and WTC for safety practices prior to performing these functions. Installations shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI section 83.87 or 810 as applicable.

TPI Building Components Group Inc. (TIBC) shall not be responsible for any deviation from this design and/or installation of this truss system. The user of this design shall be responsible for any deviation from this design and/or installation of this truss system. Refer to drawings 160A-Z for standard plate positions. A seal on this drawing or cover page listing this design indicates acceptance of professional engineering and the responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer per ANSI/TPI 1 Sec 2. For more information see this job's general notes page. TIBC BCSI www.tpic.com TPI www.tpic.org WTC www.sbcindustry.com



| TC LL     | 20.0 PSF | REF    | R9114- 69274      |
|-----------|----------|--------|-------------------|
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | HCSR9114 14024161 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WPF            |
| TOT. LD.  | 37.0 PSF | SEQN   | 344076            |
| DUR. FAC. | 1.25     | FROM   | JMW               |
| SPACING   | 24.0"    | JREF   | 1V3B487_Z02       |

(14-005C--BRYAN ZECHER /Jones/Goodson Residence -- Lake City, FL - A2 8 11 8 Mono)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B  
Webs 2x4 SP #3-13B  
Lt Stub Wedge 2x4 SP #3-13B

Lumber grades designated with '13B' use design values approved  
1/30/2013 by ALSC

Bottom chord checked for 10 00 psf non-concurrent live load

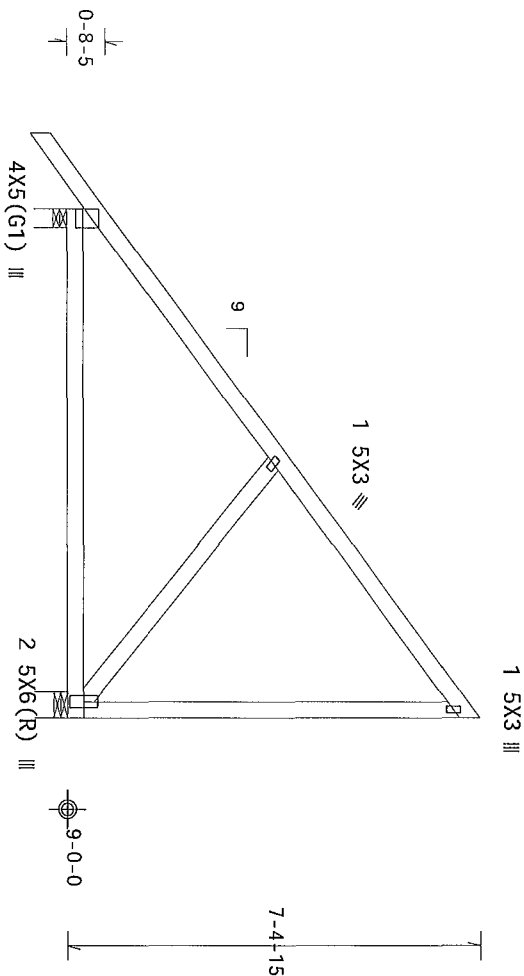
MMFERS loads based on trusses located at least 15 00 ft from roof edge

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GCPI(+/-)=0 18

Wind loads and reactions based on MMFERS with additional C&C member  
design

Right end vertical not exposed to wind pressure

Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1 50



8-11-8 Over 2 Supports  
R=437 U=0 W=4' (4 min)  
RL=125/-88  
R=341 U=58 W=5 5" (5 5" min)

PLT TYP Wave

Design Crit FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03.04

QTY: 1 FL/-/5/-/-/R/-

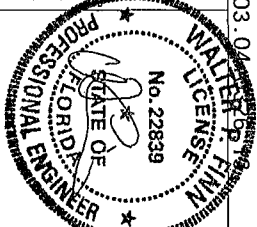
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ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0 278

IMPORTANT: READ AND FOLLOW ALL NOTES ON THIS SHEET.  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.  
Trusses shall be erected with care in accordance with the manufacturer's instructions. Refer to and follow the latest edition of BCSI (Building Components Safety Institute) BCSI/TP1 (WTD) for details. Practice shall be followed in performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached r/g d colling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3 B7 or B10 as applicable.  
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Any failure to build the truss in conformance with ANSI/TP1 1, or for handling, shipping, installing, or erecting the truss, shall be the responsibility of the user. Refer to sections 1604.2 and 1604.3 of the International Building Code (IBC) for details. A seal on this drawing or cover page stating the design shown and the seal acceptance of professional engineer is the responsibility of the Building Designer per ANSI/TP1 1 Sec 2. For more information see this job's general notes page ITW-BCSI www.itwbcg.com TP1 www.tpinst.org WTD www.sbc industry.com IDC www.idcinfo.org



01/24/2014

| TC LL     | 20.0 PSF | REF    | R9114- 69275      |
|-----------|----------|--------|-------------------|
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | HCSR9114 14024162 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WPF            |
| TOT. LD.  | 37.0 PSF | SEQN-  | 345408            |
| DUR. FAC. | 1.25     | FROM   | JMM               |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02       |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

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weds2x4 SP #3-13B
Stack Chord SC1 2x4 SP #1 13B
Stack Chord SC2 2x4 SP #1-13B

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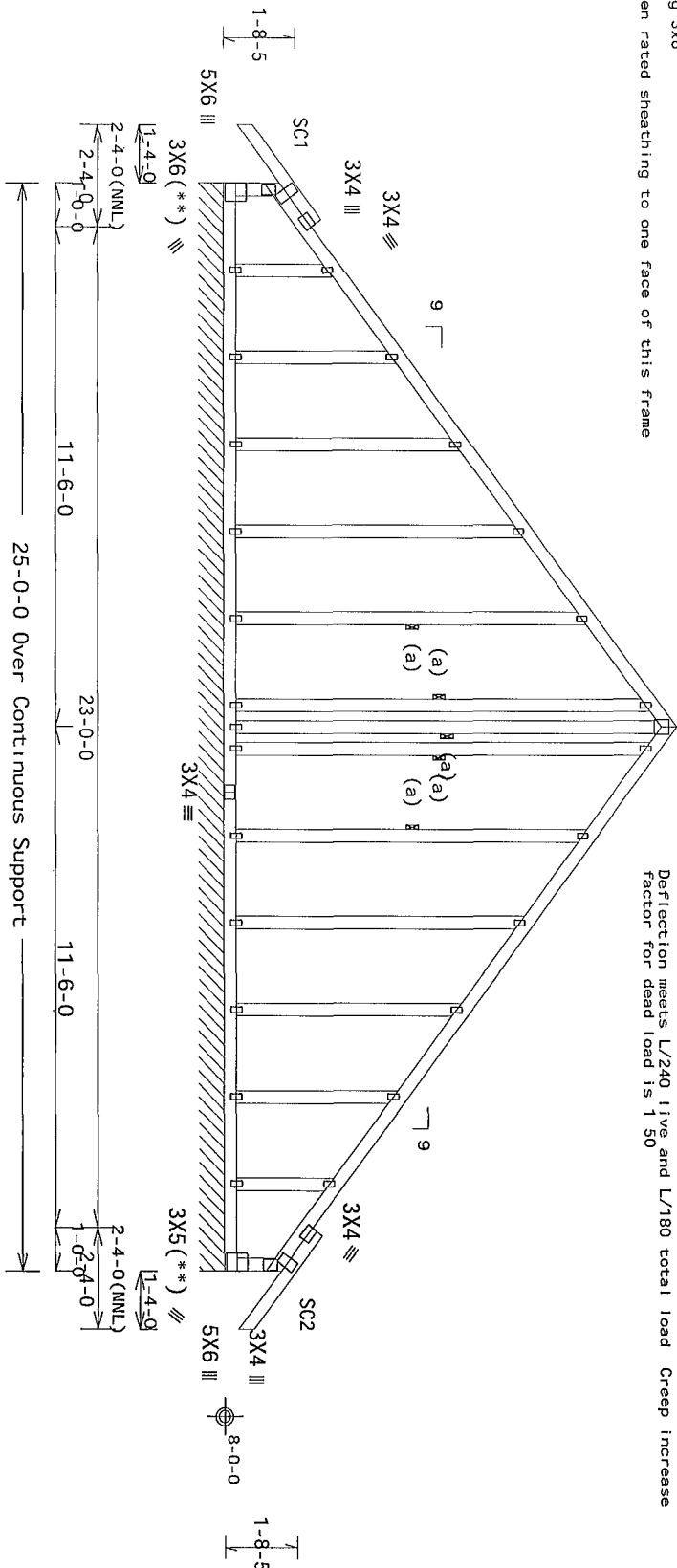
Lumber grades designated with 13B use design values approved 1/30/2013 by ALSC

Calculated horizontal deflection is 0.21 due to live load and 0.14 due to dead load

See DWGS A12015ENC100212 GBLLETIN0212 & GABRST100212 for more requirements

Stacked top chord must NOT be notched or cut in area (NUL) Dropped top chord braced at 24 o c intervals Attach stacked top chord (S) to dropped top chord in noticable area using 3x4 tie-plates 24 o c Center plate on stacked/dropped chord interface plate length perpendicular to chord length Splice top chord in noticable area using 3x6

Fasten rated sheathing to one face of this framed



(\*\*) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements

120 mph wind 15 00 ft mean hgt ASCE 7-10 CLOSED bldg Located  
in roof RISK CAT II Exp C wind TC DL=5 psf wind BC  
DL=5 0 psf GCFI (+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member design

Truss spaced at 24 0 0C designed to support 2-3-0 top chord  
outlookers Cladding load shall not exceed 10 00 psf Top chord must  
not be cut or notched

(a) Continuous lateral restraint equally spaced on member

In lieu of structural panels use purlins to brace TC @ 24 0C

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1 50

Note All Plates Are 1 5X3 Except  
R=218 PLF U=34 PLF W=25-0-0  
RL=25/-25 PLF

| PLT TYP | Wave                                 | Design Crit | FBC2010Res/TP1-2007(STD)<br>FT/RT=20%(%) /10(0) |
|---------|--------------------------------------|-------------|---|
| Note    | All Plates Are 1 5X3 Except As Shown |             |   |

|    |            |       |                |
|----|------------|-------|----------------|
| 12 | 03.04.2013 | QTY-1 | FL/-/5/-/-/R/- |
|----|------------|-------|----------------|

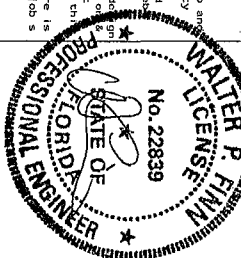
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**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET!  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

2017

ITW Building Components Group Inc

Orlando FL, 32837  
FL COA #0 278



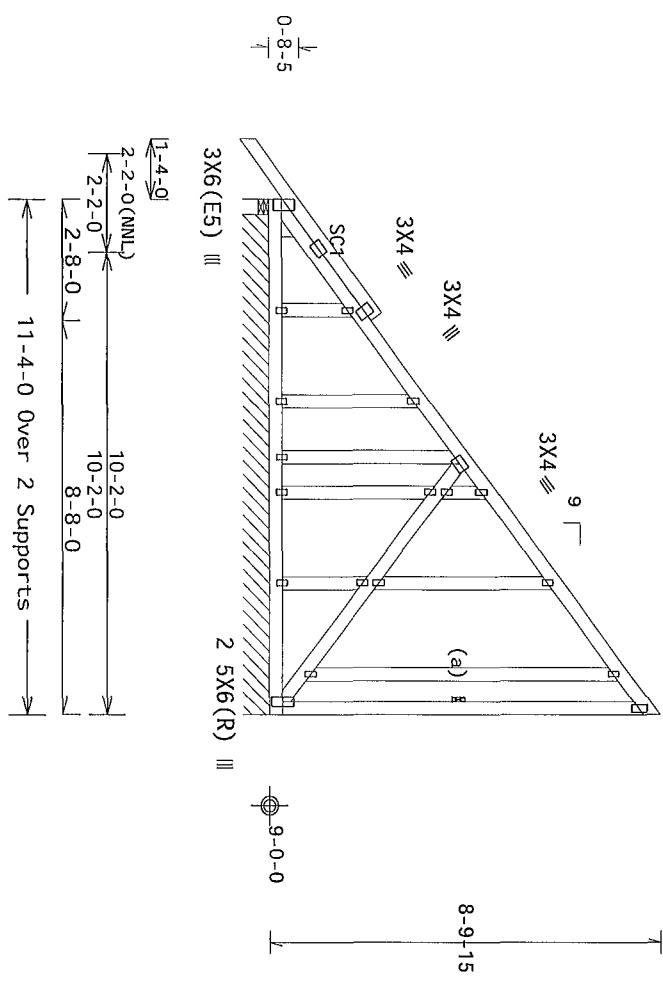
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|----------|----------|--------|--------------------|
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| TC DL    | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL    | 10.0 PSF | DRW    | H0US69114 14024194 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WPF             |
| TOT.LD   | 37.0 PSF | SEQN-  | 344209             |
| DUR.FAC. | 1.25     | FROM   | JMW                |
| SPACING  | 24 0"    | JREF-  | 1V3B487_Z02        |

Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B  
Webs 2x4 SP #3-13B  
Stack Chord SC1 2x4 SP #1-13B Lt Stub Wedge 2x4 SP #3-13B  
Lumber grades designated with '13B use design values approved 1/30/2013 by ALSC

Truss spaced at 24 0 OC designed to support 2-3-0 top chord outlookers Cladding load shall not exceed 10 00 PSF Top chord must not be cut or notched

Stacked top chord must NOT be notched or cut in area (NML) Attach stacked top chord (SC) to dropped top chord in notched area using 3x4 tie-plates 24 0 c Center plate on stacked/dropped chord interface plate length perpendicular to chord length Splice top chord in notched area using 3x6

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, Exp C, wind TC DL=3 5 psf, wind BC DL=5 0 psf  $G C P_1 (+/-) = 0.18$   
Wind loads and reactions based on MMFRS with additional C&C member design  
Right end vertical not exposed to wind pressure  
See DWGS A12015ENC100212, GBLLET100212, & GABRST100212 for more requirements  
(a) Continuous lateral restraint equally spaced on member Bottom chord checked for 10 00 psf non-concurrent live load Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



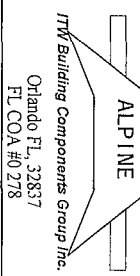
Note All Plates Are 1 5X3 Except As Shown  
PLT TYP Wave  
Design Crit FBC2010Res/TPI-2007(STD)  
FT/RT=20% (0%)/10 (0)

R=421 U=23 W=4 (4 min)  
RL=753/-209  
R=173 PLF U=76 PLF W=11-0-0

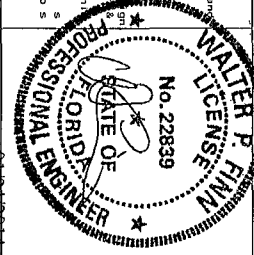
IMPORTANT\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

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ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design and the use of this design for any structure. The user shall be responsible for obtaining all necessary permits and approvals. Refer to drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility solely for the building design shown. The suitability and use of this design for any structure is the responsibility of the building designer per ASCE/TPI Section 2. For more information see this job's general notes page ITW-BCG www.itwbcg.com TPI www.tpi.net or www.sdc industry.com



Orlando FL, 32837  
FL COA #0278



| TC LL     | 20.0 PSF | REF    | R9114- 69277      |
|-----------|----------|--------|-------------------|
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | HCSR9114 14024195 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/MPF            |
| TOT. LD.  | 37.0 PSF | SEQN-  | 345405            |
| DUR. FAC. | 1.25     | FROM   | JMM               |
| SPACING   | 24.0"    | JREF   | 1V3B487_Z02       |

Scale = .25"/Ft.

(14-005C--BRYAN ZECHEER /Jones/Goodson Residence -- Lake City, FL - B1 22 11 Common)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B  
Webs 2x4 SP #3-13B

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCpl(+/-)=0 18

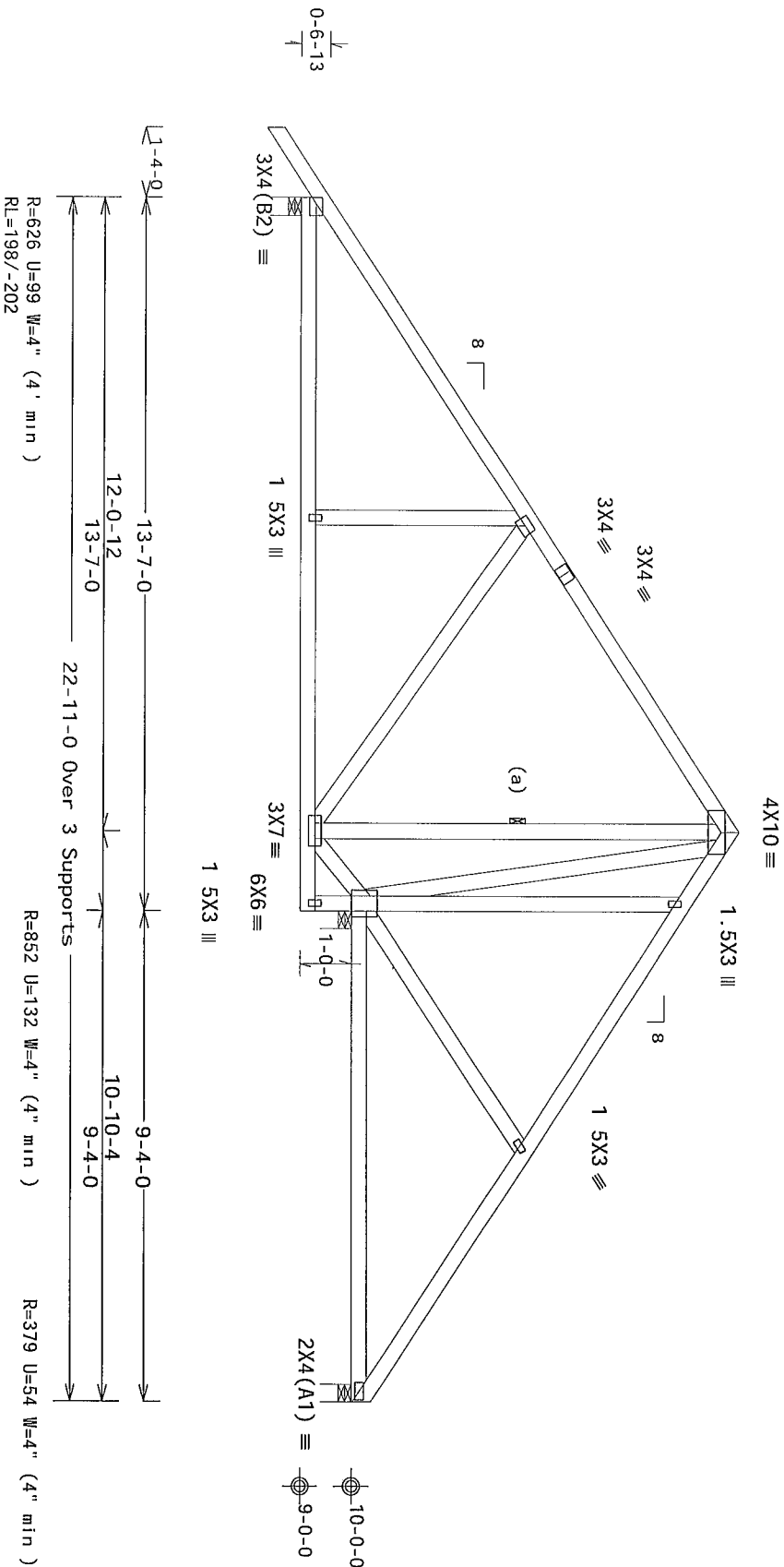
Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Wind loads and reactions based on MMFRS with additional C&C member design

(a) Continuous lateral restraint equally spaced on member

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



PLT TYP Wave

Design Crit FBC2010Res/TPI-2007(STD)  
FT/RI=20% (0%)/10(0)

12 03 04

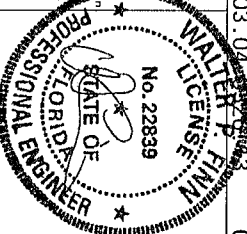
QTY: 2 FL/-/5/-/R/-

Scale = .3125"/Ft.

ALPINE

ITW Building Components Group Inc.  
Orlando FL 32837  
FL COA #0278

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS  
Trusses require extreme care in fabricating, handling, shipping, installing, and bracing. Refer to and follow the latest edition of BCSI (Building Components Safety Institute) Information by TPI and WTC for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rafter girding. Location shown for permanent lateral restraint of webs. Shall have bracing installed per BCSI Section 83 B7 or B10 as applicable.  
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design and shall be held liable for the truss in conformance with ANSI/TPI 1 or for handling, shipping, installing, and bracing of the truss. The truss shall be braced in accordance with the design. A seal on this drawing or cover page stating this design and use of this design for any structure is the responsibility of the building designer per ANSI/TPI 1 Section 2. For more information see this job's general notes page ITW BCG www.itwbcg.com TPI www.tpiinc.org WTC www.sbcindustry.com  
ITC www.centre.org



| TC LL    | 20.0 PSF | REF    | R9114- 69278      |
|----------|----------|--------|-------------------|
| TC DL    | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL    | 10.0 PSF | DRW    | HCSR9114 14024163 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WPF            |
| TOT LD   | 37.0 PSF | SEQN-  | 341086            |
| DUR. FAC | 1.25     | FROM   | JMM               |
| SPACING  | 24 0"    | JREF-  | 1V3B487_202       |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Lumber grades designated with 13B use design values approved 1/30/2013 by ALSC

Special loads  
-----  
Dur Fac = 1.25 / Plate Dur Fac = 1.25

|    |      |    |     |       |            |       |
|----|------|----|-----|-------|------------|-------|
| BC | 1253 | 76 | 1b  | Conc  | Load at 13 | 06    |
| BC | 1241 | 28 | 1b  | Conc  | Load at 13 | 06    |
| BC | 1238 | 22 | 1b  | Conc  | Load at 7  | 13    |
| BC | 3261 | 53 | 1b  | Conc  | Load at 9  | 06    |
| BC | From | 20 | pif | at 13 | 58         | to 20 |
| BC | From | 20 | pif | at 0  | 00         | to 20 |
| TC | From | 37 | pif | at 1  | 03         | to 37 |
| TC | From | 37 | pif | at 1  | 03         | to 37 |

Bottom chord checked for 10 00 psf non-concurrent live load

## 2 COMPLETE TRUSSES REQUIRED

Nail Schedule 0 128 x3, min nails

|           |       |      |      |
|-----------|-------|------|------|
| Top Chord | 1 Row | @ 12 | 0 c  |
| Bot Chord | 1 Row | @ 4  | 75 c |
| Webs      | 1 Row | @ 4  | 0 c  |

Use equal spacing between rows and stagger nails in each row to avoid splitting

120 mph wind 15 00 ft mean hgt, ASCE 7-10, CLOS within 9 00 ft from roof edge, RISK CAT II, EXP wind BC DL=5 0 psf Gcpi(++-)-0 18

Wind loads and reactions based on MMFRS

Right cantilever is exposed to wind

(a) Continuous lateral restraint equally spaced

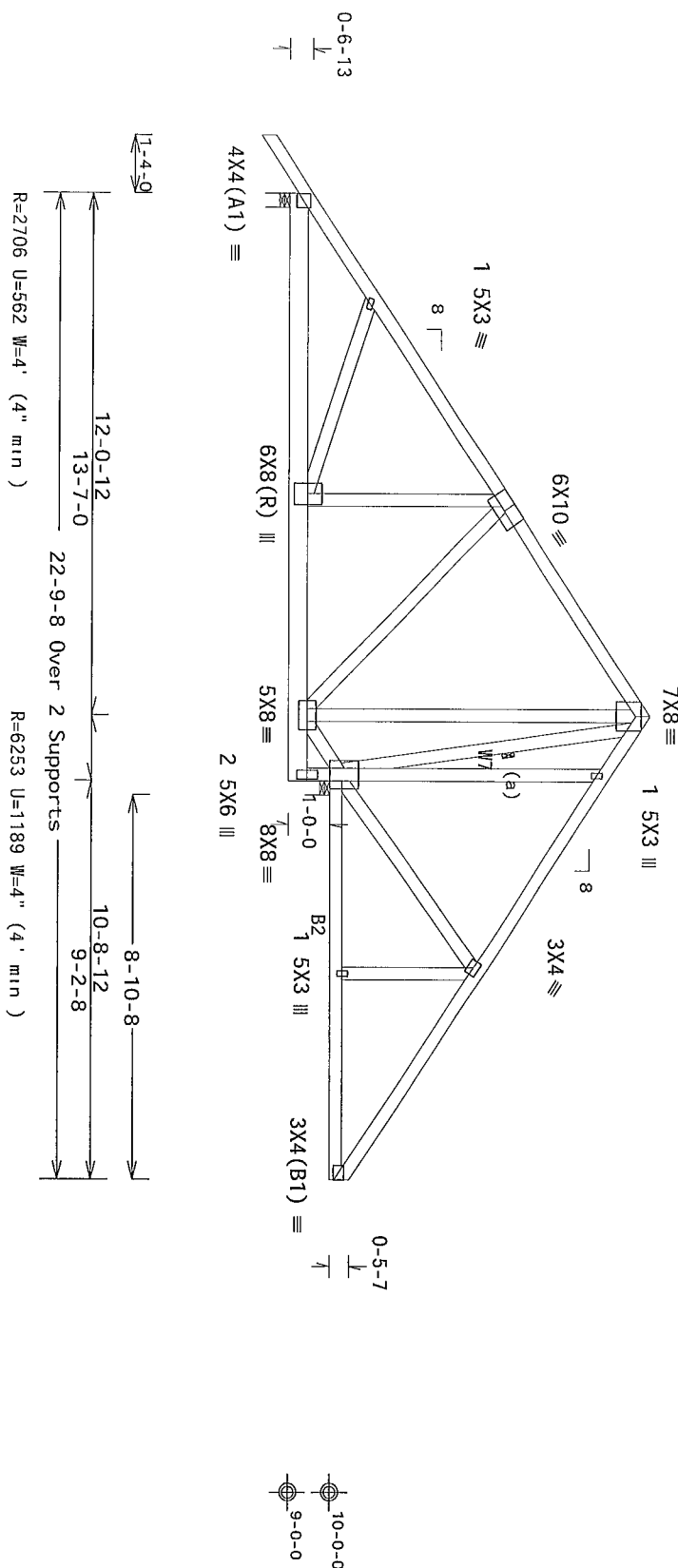
Deflection meets L/240 live and L/180 total load

Factor for dead load is 1 50

Right canti lever is exposed to wind

(a) Continuous lateral restraint equally spaced on member

Deflection meets L/240 live and L/180 total load Creep increases factor for dead load is 1.50



PLT TYP Wave

| Design Crit | FBC2010Res/TP1-2007(STD,<br>FT/RT=20%(0%)/10(0)) |
|-------------|--|
|             |  |

$$FT/RT=20\%(0\%)/10(0)$$

12 03 04 05 06 07 08 09 10 11 12 13

QTY: 1

FL/-/5/-/-/R/-

Scale = 25"/Ft.

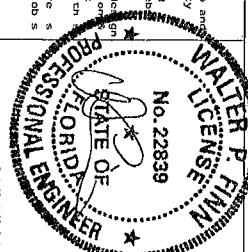
ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0278

IMPORTANT! FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trustee requires extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCIS (Building Component Safety) Information on by TPI and WTCA for safety practices as per or to perform the these functions. Installers shall provide temporary bracing per BCIS. If not noted otherwise, such other shall have properly attached structural sheath and bottom chord shall have three mg installed per BCIS section B3, B7 or B10 (as apply) table.

The Building Component Group Inc. (TIBCO) shall not be responsible for any data or information on any file, but only to the extent in conformity with the ANSI Z39.1-1991 standard. The design of trusses, bracing of trusses. Apply placards to each face of truss and post it on as shown above and on the joist. Do not install unless noted otherwise. Refer to draw NGS-180A-7 for standard placed post and on. A seal on the drawing of cover page 1 stating the drawing and the duties of professional engineer near the drawing shall be provided. The design of the building shall be in accordance with the structural design of the building. The responsibility of the building is on the part of ANSI/TC1.1, Sec 2. The general notes page 17B-BGC www.tlbc.com TPI www.tpi.org WTC www.theindustry.com CC www.ccsa.org



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R9114 - 69279     |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL    | 10 0 PSF | DRW    | H0589114 14024207 |
| BC LL    | 0 0 PSF  | HC-ENG | JB/WMPF           |
| TOT LD   | 37.0 PSF | SEQN-  | 341622            |
| DUR FAC. | 1.25     | FROM   | JMMW              |
| SPACING  | 24.0"    | JREF - | 1V3B487_Z02       |



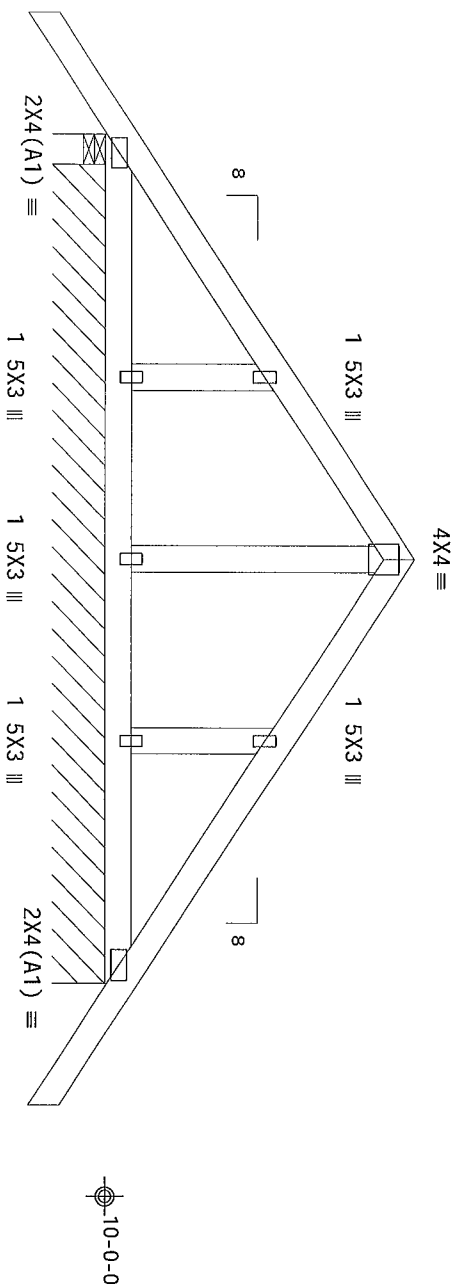
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GCPI(+/-)=0 18

Wind loads and reactions based on MNFRS with additional C&C member design

See DWGS A12015ENC100212, GBILET1N0212, & GABRST100212 for more

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1-4-0

4-8-0 4-8-0

9-4-0 Over 2 Supports

R=208 U=39 W=4" (4' min)  
R=75 PLF U=12 PLF W=9-0-0

| Design Crit         | FBC2010Res/TP1-2007(STD) |
|---------------------|--------------------------|
| FT/RT=20%(0%)/10(0) |                          |

$$FT/RT = 20\%(0\%) / 10(0)$$

12 03.04.2023

QTY:1 FL/-/5/-/-/R/-

Scale = 5"/Ft.

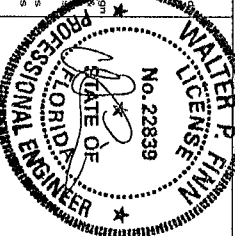
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET!  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Persons require access care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Components Safety) information on by TPI and WTCO for safety practices per or to performing these functions. Installers shall provide a temporary bracing per BCSI. Unless noted otherwise, no top chord shall have properly attached sheathing and bottom chord shall have a properly attached r/g d ceiling. Looset ones shown for permanent lateral restraint of web shall have bracing installed per BCSI sections B3, B7 or B10 as apply. (c) (6)

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0278



~~01/24/2014~~

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R9114 - 69280      |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL    | 10.0 PSF | DRW    | HCUSR9114 14024164 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WMPF            |
| TOT.LD.  | 37.0 PSF | SEQN-  | 340735             |
| DUR.FAC. | 1.25     | FROM   | JMM                |
| SPACING  | 24.0"    | JREF - | 1V3B487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf 6cpi(+/-)=0 18

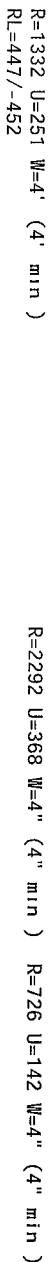
Wind loads and reactions based on MMFRS with additional C&amp;C member design

Truss spaced at 24 0" OC designed to support 2-3 0 top chord  
outlookers Cladding load shall not exceed 10 00 PSF Top chord must  
not be cut or notched

(a) Continuous lateral restraint equally spaced on member

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets  $L/240$  live and  $L/180$  total load Creep increase factor for dead load is 1.50



Design Crit FBC2010Res/TP1-2007(STD)

$$FT/RT=20\%(0\%)/10(0)$$

12.03.04 12.03.04 12.03.04

QTY:1 FL/-/5/-/-/R/-

Scale = .25"/Ft.

STATE OF  
No. 22839  
WALTER P. FINN  
LICENSE

**\*WARNING\*** READ AND FOLLOW ALL NOTES ON THIS SHEET!  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Tenuses require extensive care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI Building Component Safety Information on by TPI and WTCA) for safety practice used prior to performing these functions. Installers shall provide temporary bracing per BCSI which are noted above as top chord shall have properly attached structural shafting and bottom chord shall have bracing installed per BCSI sections B3 B7 or B10 as applicable.

LTH Building Components Group Inc. (LTHBCG) shall not be responsible for any action taken during design or erection of structures. Apply plates to each end of the ANS/TPI or for handling any piping installation. Details under notes apply plates to each end of the ANS/TPI or for standard plate positions. A seal on this drawing or cover page at its right side drawing not cause acceptance of process and/or engineering responsibility solely for the design shown. The submittal TPI 1 and use of this design for any structure is the responsibility of the building design owner per ANSI/TPI 1 Sec 2. For more information see This Job's general notes page LTH BCG www.lthbcg.com TPI www.tpi.net WTCA www.structure.com  
LTH website.org

01/24/2014

|           |          |        |                   |
|-----------|----------|--------|-------------------|
| TC LL     | 20.0 PSF | REF    | R9114- 69281      |
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | H05R9114 14024202 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/MDF            |
| TOT. LD.  | 37.0 PSF | SEQN-  | 341371            |
| DUR. FAC. | 1.25     | FROM   | JMM               |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02       |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member

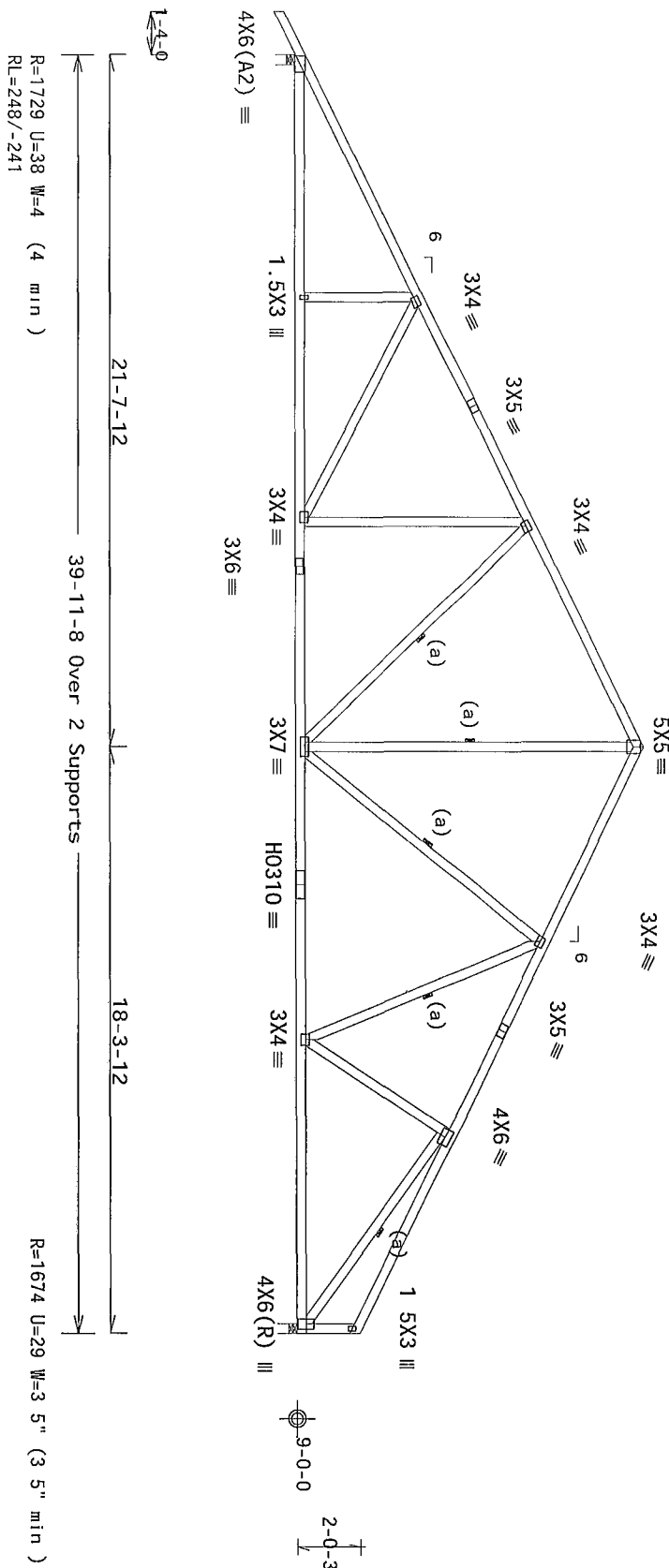
Truss passed check for 20 psf additional bottom chord live load in areas with 42'-high x 24'-wide clearance

MMF/RFS loads based on trusses located at least 15.00 ft from roof edge

### Wind loads and reactions based on MWFRS with additional C&C member design

Right end vertical not exposed to wind pressure

Bottom chord checked for 10 00 psf non-concurrent live load  
Deflection meets  $L/240$  live and  $L/180$  total load Creep increase  
factor for dead load is 1 50



| PLT TYP | 20 Gauge HS, Wave |
|---------|-------------------|
|         |                   |

| Design Crit | FBC2010Res/TP1-2007(STD)<br>FT/RT=20%(0%)/10(0) |
|-------------|---|
|-------------|---|

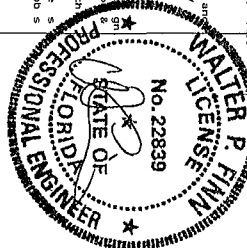
12.03 04 0326 13

QTY:3 FL/-/5/-/-/R/-/

Scale = 1875"/Ft.

ALPINE

**ITW Building Components Group Inc.**  
Orlando FL, 32837  
FL COA #0 278

[illegible]

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69282       |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL    | 10.0 PSF | DRW    | HCUSR9114 14024165 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WMPF            |
| TOT.LD   | 37.0 PSF | SEQN-  | 346486             |
| DUR.FAC. | 1.25     | FROM   | JMM                |
| SPACING  | 24 0"    | JREF-  | 1V3B487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Lumber grades designated with 13B' use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member

Truss passed check for 20 psf additional bottom chord live load in areas with 42'-high x 24'-wide clearance

Deflection meets L/240 live and L/180 total load Creep increases factor for dead load is 1.50

MMFRS loads based on trusses located at least 15 00 ft from roof edge

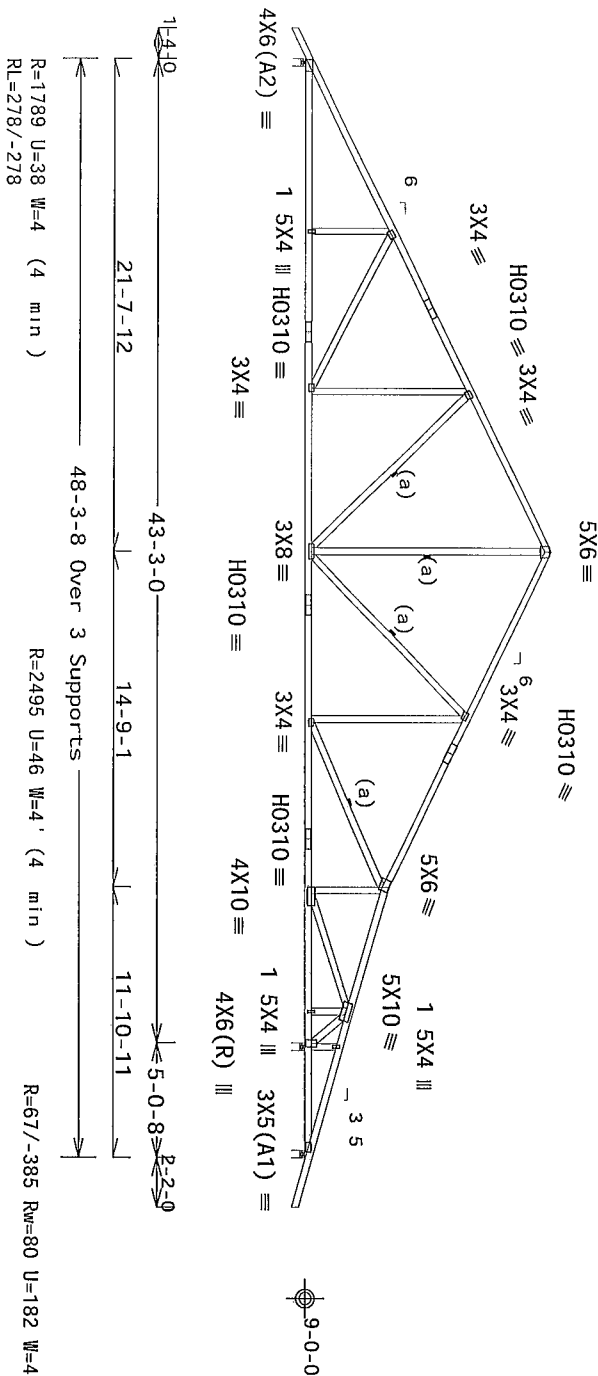
Negative reaction(s) of -385# MAX (See below) from a non-wind load case requires uplift connection

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13 00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCP1 (+/-)=0 18

Wind loads and reactions based on MNFRS with additional C&C member design

Bottom chord checked for 10 00 psf non-concurrent live load

**WARNING** Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



PLT TYP 20 Gauge HS, Wave

| Design Crit         | FBC2010Res/TP1-2007(STD) |
|---------------------|--------------------------|
| FT/RT=20%(0%)/10(0) |                          |

12 03 04 15 67 13

QTY:3 FL/-/5/-/-/R/-

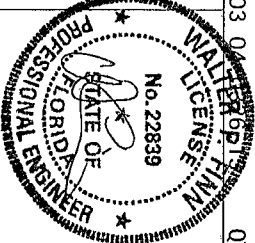
Scale = .125"/Ft

\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET!  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Tenons, require some care in fabricating, handling, shipping, installing, and bracing. Refer to and follow the latest edition of BCSI's Building Component Survey Information on Dry TPI and WTC's for safety practices prior to performing these functions. Inspectors shall provide temporary bracing per BCSI's. Unless noted otherwise, no top chord shall have properly attached structural sheath and bottom chord shall have a properly attached r/g and no long. Least one shown for permanent lateral restraint of webs shall have bracing installed per BCSI section 83, 87 or 810 as applicable.

ALPINE

ITW Building Components Group Inc  
Orlando FL, 32837  
FL COA #0 278



01/24/2014

|           |          |        |                   |
|-----------|----------|--------|-------------------|
| TC LL     | 20.0 PSF | REF    | R9114- 69283      |
| TC DL     | 7 0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | HOUSE114 14024166 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WPF            |
| TOT. LD.  | 37.0 PSF | SEQN-  | 341713            |
| DUR. FAC. | 1.25     | FROM   | JMM               |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02       |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Negative reaction(s) of -433# MAX (See below) from a non-wind load case requires uplift connection

Calculated horizontal deflection is 0.12" due to live load and 0.15" due to dead load.

due to dead load

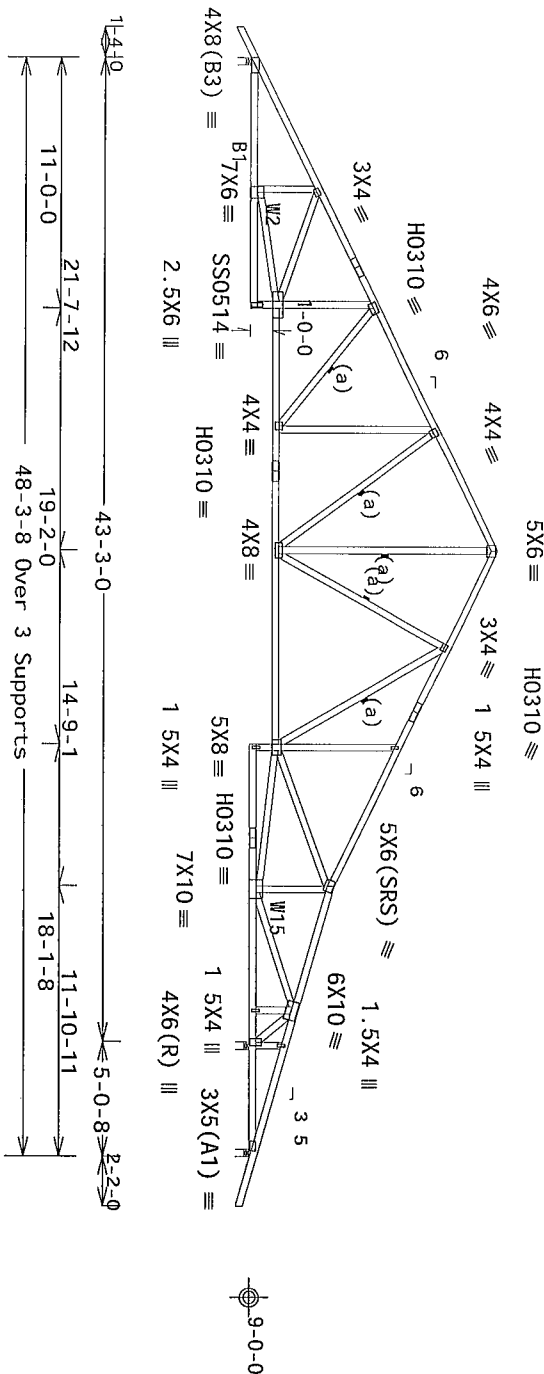
(a) Continuous lateral restraint equally spaced on member

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets  $L/240$  live and  $L/180$  total load Creep increase factor for dead load is 1.50

**WARNING** Furnish a copy of this DWG to the installation contractor

of trusses See "WARNING" note below



R=24/-484 R<sub>w</sub>=72 U=220 W=4" (4" min)

12.03.04 12:46:18 QTY:1 FL/-/5/-/-/R/- Scale = .125"/Ft.

|       |          |     |             |
|-------|----------|-----|-------------|
| TC LL | 20.0 PSF | REF | R9114-69284 |
|-------|----------|-----|-------------|

03.04.2015  
WALTER P. HINN  
No. 22839  
STATE OF  
Q

[illegible]

01/24/2014

|         |          |        |                    |
|---------|----------|--------|--------------------|
| TC LL   | 20.0 PSF | REF    | R9114- 69284       |
| TC DL   | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL   | 10.0 PSF | DRW    | HCUSR9114 14024203 |
| BC LL   | 0.0 PSF  | HC-ENG | JB/WMP             |
| TOT LD. | 37.0 PSF | SEQN-  | 344216             |
| DUR.FAC | 1.25     | FROM   | JMM                |
| SPACING | 24.0"    | JREF-  | 1V3B487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

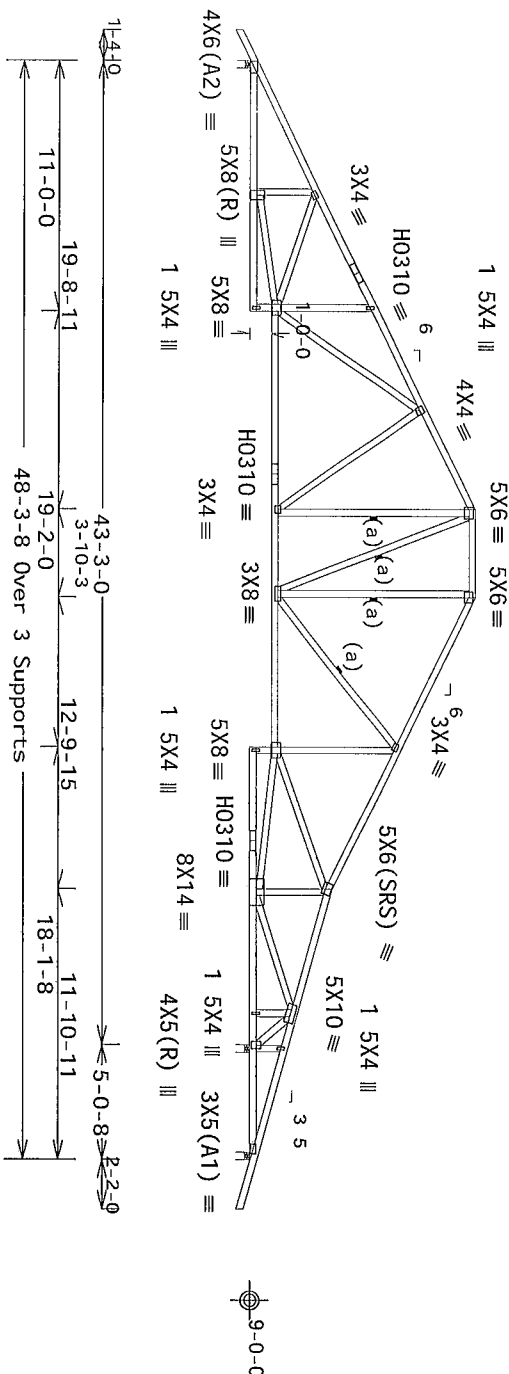
\*\*\*  
Negative reaction(s) of -413# MAX (See below) from a non-wind load  
case requires uplift connection

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13 00 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCP1(+/-)=0 18

### Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets  $L/240$  live and  $L/180$  total load Creep increase factor for dead load is 1.50.

MMFRS loads based on trusses located at least 15 00 ft from roof edge



R=2396 U=48 W=4" (4" min)

\*\*\* R=80/-413 U=207 W=4" (4" min)

Design Crit FBC2010Res/TP1-2007(STD)

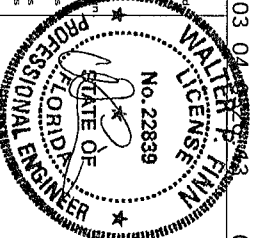
QTY:1 FL/-/5/-/-/R/-

Scale = .125"/Ft.

**IMPORTANT:** READ AND FOLLOW ALL NOTES ON THIS SHEET!  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

ALPINE

ITW Building Components Group Inc  
Orlando FL, 32837  
FL COA #0278

[illegible]

| FL/-/5/-/-/R/- |          | Scale = .125"/Ft.     |
|----------------|----------|-----------------------|
| TC LL          | 20.0 PSF | REF R9114- 69285      |
| TC DL          | 7.0 PSF  | DATE 01/24/14         |
| BC DL          | 10.0 PSF | DRW HCSR9114 14024167 |
| BC LL          | 0 0 PSF  | HC-ENG JB/WMPF        |
| TOT. LD        | 37 0 PSF | SEQN- 3471703         |
| DUR. FAC.      | 1.25     | FROM JMW              |
| SPACING        | 24.0"    | JREF- 1V3B487_Z02     |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC

DL=5 0 psf GCp1(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



R=-8 R<sub>w</sub>=16 U=16 (1 5" min)

$$2X_4(A1) \equiv R=16 \text{ } R_w=18 \text{ } U=7 \text{ } (1 \text{ } 5 \text{ } \text{min})$$

1-4-0

1-4-3 Over 3 Supports

R=192 U=45 W=4 (4 min)  
RL=32/-22

PLT TYP Wave

| Design Crit | FBC2010Res/TP1-2007(STD),<br>FT/RT=20%(0%)/10(0) |
|-------------|--|
| 1.1.1.1     | 1.1.1.1  |
| 1.1.1.2     | 1.1.1.2  |
| 1.1.1.3     | 1.1.1.3  |
| 1.1.1.4     | 1.1.1.4  |
| 1.1.1.5     | 1.1.1.5  |
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| 1.1.1.7     | 1.1.1.7  |
| 1.1.1.8     | 1.1.1.8  |
| 1.1.1.9     | 1.1.1.9  |
| 1.1.1.10    | 1.1.1.10   |
| 1.1.1.11    | 1.1.1.11   |
| 1.1.1.12    | 1.1.1.12   |
| 1.1.1.13    | 1.1.1.13   |
| 1.1.1.14    | 1.1.1.14   |
| 1.1.1.15    | 1.1.1.15   |
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| 1.1.1.95    | 1.1.1.95   |
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| 1.1.1.97    | 1.1.1.97   |
| 1.1.1.98    | 1.1.1.98   |
| 1.1.1.99    | 1.1.1.99   |
| 1.1.1.100   | 1.1.1.100  |

12 03.04.2023

QTY:2 FL/-/5/-/-/R/-

Scale = 5"/Ft

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

These requirements can be met by using the following information:

- The type of material used for the cable (e.g., steel, aluminum, etc.)
- The diameter of the cable (e.g., 1/2 inch, 3/4 inch, etc.)
- The length of the cable (e.g., 10 feet, 20 feet, etc.)
- The weight of the cable (e.g., 10 lbs, 20 lbs, etc.)
- The type of connection used (e.g., welded, bolted, etc.)
- The type of support used (e.g., hanger, bracket, etc.)
- The type of load used (e.g., tension, compression, etc.)
- The type of environment (e.g., indoor, outdoor, etc.)
- The type of application (e.g., structural, non-structural, etc.)

By using this information, the engineer can select the appropriate cable for the application. The engineer should also consider the following factors:

- The cost of the cable (e.g., \$10 per foot, \$20 per foot, etc.)
- The availability of the cable (e.g., in stock, on order, etc.)
- The ease of installation (e.g., simple, complex, etc.)
- The ease of maintenance (e.g., easy, difficult, etc.)
- The safety of the cable (e.g., safe, unsafe, etc.)
- The durability of the cable (e.g., long-lasting, short-lasting, etc.)
- The appearance of the cable (e.g., clean, dirty, etc.)
- The compatibility of the cable (e.g., compatible, incompatible, etc.)
- The flexibility of the cable (e.g., flexible, rigid, etc.)
- The strength of the cable (e.g., strong, weak, etc.)
- The corrosion resistance of the cable (e.g., resistant, not resistant, etc.)
- The fire resistance of the cable (e.g., resistant, not resistant, etc.)
- The seismic resistance of the cable (e.g., resistant, not resistant, etc.)
- The vibration resistance of the cable (e.g., resistant, not resistant, etc.)
- The noise resistance of the cable (e.g., resistant, not resistant, etc.)
- The electromagnetic interference (EMI) resistance of the cable (e.g., resistant, not resistant, etc.)
- The radio frequency interference (RFI) resistance of the cable (e.g., resistant, not resistant, etc.)
- The chemical resistance of the cable (e.g., resistant, not resistant, etc.)
- The biological resistance of the cable (e.g., resistant, not resistant, etc.)
- The environmental resistance of the cable (e.g., resistant, not resistant, etc.)
- The overall performance of the cable (e.g., good, poor, etc.)

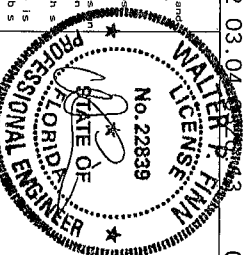
The engineer should also consider the following factors when selecting a cable:

- The type of load (e.g., tension, compression, etc.)
- The type of support (e.g., hanger, bracket, etc.)
- The type of connection (e.g., welded, bolted, etc.)
- The type of material (e.g., steel, aluminum, etc.)
- The diameter of the cable (e.g., 1/2 inch, 3/4 inch, etc.)
- The length of the cable (e.g., 10 feet, 20 feet, etc.)
- The weight of the cable (e.g., 10 lbs, 20 lbs, etc.)
- The cost of the cable (e.g., \$10 per foot, \$20 per foot, etc.)
- The availability of the cable (e.g., in stock, on order, etc.)
- The ease of installation (e.g., simple, complex, etc.)
- The ease of maintenance (e.g., easy, difficult, etc.)
- The safety of the cable (e.g., safe, unsafe, etc.)
- The durability of the cable (e.g., long-lasting, short-lasting, etc.)
- The appearance of the cable (e.g., clean, dirty, etc.)
- The compatibility of the cable (e.g., compatible, incompatible, etc.)
- The flexibility of the cable (e.g., flexible, rigid, etc.)
- The strength of the cable (e.g., strong, weak, etc.)
- The corrosion resistance of the cable (e.g., resistant, not resistant, etc.)
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- The seismic resistance of the cable (e.g., resistant, not resistant, etc.)
- The vibration resistance of the cable (e.g., resistant, not resistant, etc.)
- The noise resistance of the cable (e.g., resistant, not resistant, etc.)
- The electromagnetic interference (EMI) resistance of the cable (e.g., resistant, not resistant, etc.)
- The radio frequency interference (RFI) resistance of the cable (e.g., resistant, not resistant, etc.)
- The chemical resistance of the cable (e.g., resistant, not resistant, etc.)
- The biological resistance of the cable (e.g., resistant, not resistant, etc.)
- The environmental resistance of the cable (e.g., resistant, not resistant, etc.)
- The overall performance of the cable (e.g., good, poor, etc.)

# ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0278



~~01/24/2014~~

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R9114 - 69286      |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL    | 10.0 PSF | DRW    | HCUSR9114 14024168 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WMPF            |
| TOT LD   | 37.0 PSF | SEQN-  | 340705             |
| DUR.FAC. | 1.25     | FROM   | JMMW               |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

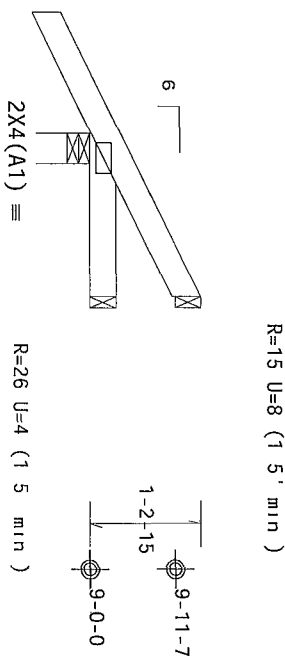
Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Bottom chord checked for 10 00 psf non-concurrent live load

120 mph wind, 15 00 ft mean hgt ASCE 7-10, CLOSED bldg, located anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GcP1(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



1-4-0  
1-9-8 Over 3 Supports

R=194 U=39 W=4 (4 min)  
RL=38/-23

PLT TYP Wave

| Design Crit | FBC2010Res/TP1-2007(STD)<br>FT/RT=20%(0%)/10(0) |
|-------------|---|
|-------------|---|

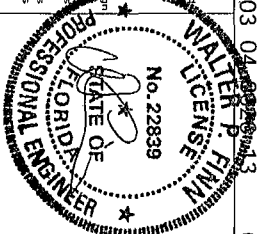
|          |        |                |
|----------|--------|----------------|
| 12.03 04 | QTY: 1 | FL/-/5/-/-/R/- |
|----------|--------|----------------|

Scale = .5"/Ft.

**••IMPORTANT•• FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0278



|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69287       |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL    | 10.0 PSF | DRW    | HCU8R9114 14024169 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/MPF             |
| TOT.LD.  | 37.0 PSF | SEQN-  | 340745             |
| DUR.FAC. | 1.25     | FROM   | JMM                |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02        |



THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

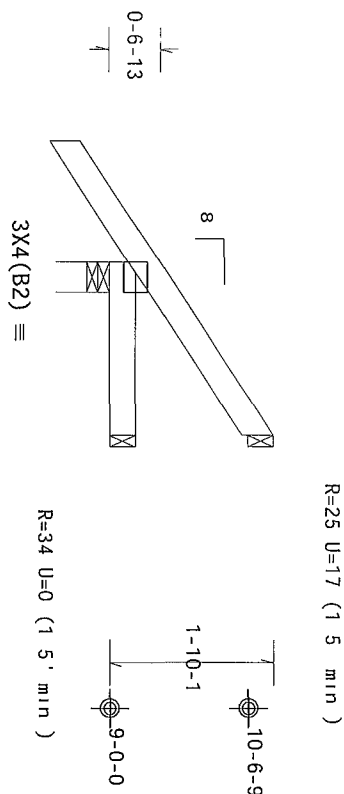
Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Bottom chord checked for 10 00 psf non-concurrent live load

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLUSED bldg, Located anywhere in roof, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCp1(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets  $L/240$  live and  $L/180$  total load Creep increases factor for dead load is 1.50



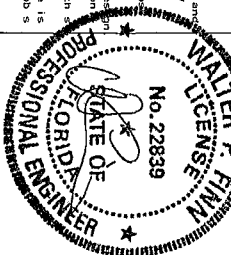
$\leftarrow 1-4-0 \rightarrow$   
 $\leftarrow 1-10-14 \text{ Over } 3 \text{ Supports} \rightarrow$   
 $R=190 \text{ U}=29 \text{ W}=4 \text{ (4" min)}$   
 $RL=52/-36$

| PLT TYP | Wave | Design Crit                                       |
|---------|------|---|
|         |      | FBC2010Res./TP1-2007(STD,<br>FT/RT=20%(0%)/10(0)) |

ALPINE

ITW Building Components Group Inc.  
Orlando FL, 32837  
FL COA #0 278

**\*\*IMPORTANT\*\***  
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
**PROMPTLY** THIS DECISION TO ALL CONTRACTORS INCLUDING INSTALLERS  
 Trussco requir e extreme care in fabricating and shipping metal joists and bracing  
 to follow the latest edition of BCSI (Bu id ing Component Safety) Information on by TPI and WTCIA for safety  
 practices prior to performing these functions. All installers shall provide temporary bracing per BCSI  
 shall have a properly attended rigid on line locations shown for permanent lateral bracing  
 shall have bracing installed per BCSI sections 83.87 or B10 as applicable  
 TPI Bu id ing Components Group Inc. (TTCBGS) shall use the responses due for any action from this decision  
 by the time of the BCSI meeting. All responses shall be submitted to the appropriate parties and on the joint  
 bracing of trusses. Apply plates to each face of ANSI/TPI 100 standard plates and on the joints  
 Data is unless noted otherwise. Refer to draw ngs 180A-2 for standard plate positions. A seal on the  
 drawing or cover page listing the drawing ngs does not cancel acceptance of processes and engineering  
 responses b y TPI solely for the design shown. The submittal and use of the ngs for any structure is  
 the responsibility of the Bu id ing design firm per ANSI/TPI 1 Sec 2 for more information on this job s  
 general notes page TPI BCS www.tlwdog.com TPI www.tpi.net.org WTCIA www.theindustry.com  
 www.tlwdog.com



~~01/24/2014~~

| FL/-/5/-/-/R/- |          | Scale = .5"/Ft.        |
|----------------|----------|------------------------|
| TC LL          | 20.0 PSF | REF R9114- 69288       |
| TC DL          | 7.0 PSF  | DATE 01/24/14          |
| BC DL          | 10.0 PSF | DRW HCURS9114 14024170 |
| BC LL          | 0.0 PSF  | HC-ENG JB/WPF          |
| TOT.LD.        | 37 0 PSF | SEQN- 340697           |
| DUR.FAC.       | 1.25     | FROM JMW               |
| SPACING        | 24 0"    | JREF- 1V3B487_Z02      |



Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B

Lumber grades designated with '13B use design values approved  
1/30/2013 by ALSC

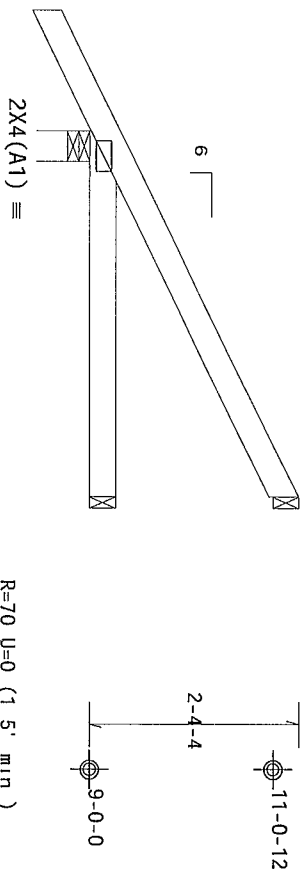
Bottom chord checked for 10 00 psf non-concurrent live load

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GCpl(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member  
design

Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1 50

R=89 U=35 (1 5" min )



1-4-0

4-0-3 Over 3 Supports

R=255 U=38 W=4 (4 min )

RL=65/-29

Design Crit FBC2010Res/TPI-2007(STD)

FT/RT=20%(0%)/10(0)

12.03.04.0000.13

QTY: 2 FL/-/5/-/-/R/-

Scale = .5"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0 278

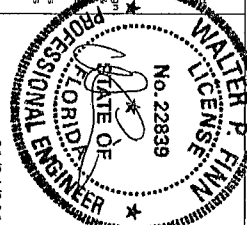
\*IMPORTANT\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET

Trusses require extreme care in fabricating, shipping, installing, and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information) by TPI for all truss information. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of web.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design and construction details. Refer to drawings 180A-2 for standard plate locations and on this do not deviate from the drawing or cover page listing this drawing. Indicates acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information see This Job's general notes page ITW BCG www.itwbcg.com TPI www.tpi.net or WDC www.sbc industry.com

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design and construction details. Refer to drawings 180A-2 for standard plate locations and on this do not deviate from the drawing or cover page listing this drawing. Indicates acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information see This Job's general notes page ITW BCG www.itwbcg.com TPI www.tpi.net or WDC www.sbc industry.com

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design and construction details. Refer to drawings 180A-2 for standard plate locations and on this do not deviate from the drawing or cover page listing this drawing. Indicates acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1 Sec 2. For more information see This Job's general notes page ITW BCG www.itwbcg.com TPI www.tpi.net or WDC www.sbc industry.com



| TC LL     | 20.0 PSF | REF    | R9114- 69290       |
|-----------|----------|--------|--------------------|
| TC DL     | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL     | 10.0 PSF | DRW    | HOURS9114 14024172 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WPF             |
| TOT LD.   | 37.0 PSF | SEQN-  | 340733             |
| DUR. FAC. | 1.25     | FROM   | JMM                |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GCp1(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



R=270 U=39 W=4 (4 min)  
RL=70/-30

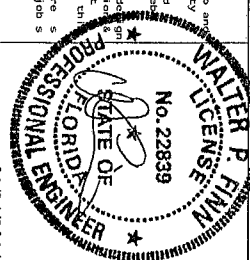
Scale = .5"/Ft.

ITW Building Components Group Inc  
Orlando FL, 32837  
FL COA #0278

**\*\*IMPORTANT\*\* FINISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

Tussons require extreme care in fabricating and handling all piping and bracing. Refer to and follow the latest edition of BCSI Building Component Systeey Information on by TPI and WITCA for safety practices prior to performing these functions. Installations shall prove de temporary bracing per BCSI tables noted otherwise. Contractors should shall have previously researched structural steel catalog and become aware that steel members shall be installed in accordance with the design intent. The attached "restored" or as shown shall have bracing indicated per BCSI sect ions B3, B7 or B10, as applicable.

If TPI Build up Components Group Inc. (TIBCOG) shall not be responsible for any new piping from this design. Any failure to build the truss in conformance w ith ANSI/TPI-1 or for handing ng all piping from metal fabrication of trusses. Apply plates to each face of truss and pos t on as shown above and on the joist details unless otherwise specified. Plates to draw ngs 180A-2 for standard joist post ons. A seal on th e underside of the top chord shall be provided to prevent water intrusion. The attachment of any structure to existing building framing shall be designed and installed by the contractor. The suitability and use of the existing building framing shall be the responsibility of the Build ng Designer per ANSI/TPI-1 Sec 2. For more information see This job s general notes page ITH-BGG www twbco.com TPI www tpinc.org WITCA www sbc industry com  
www ccscare.org CC



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69291      |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL    | 10.0 PSF | DRW    | HOUSE114 14024173 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/MPP            |
| TOT.LD   | 37.0 PSF | SEQN-  | 340747            |
| DUR.FAC. | 1.25     | FROM   | JMMW              |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02       |

(14-005C--BRYAN ZECHER /Jones/Goodson Residence -- Lake City, FL - CJ4 3 4 14 Jack)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B

Lumber grades designated with '13B' use design values approved  
1/30/2013 by ALSC

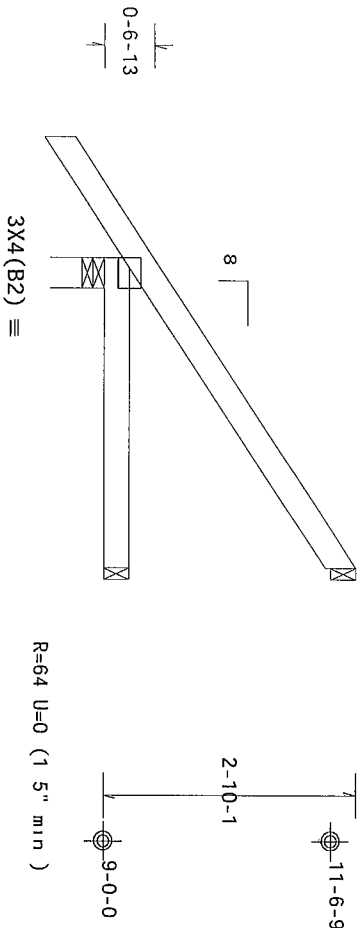
Bottom chord checked for 10 00 psf non-concurrent live load

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GCPI(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member  
design

Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1 50

R=78 U=40 (1 5 min )



1-4-0

3-4-14 Over 3 Supports

R=233 U=24 W=4 (4' min )  
RL=76/-43

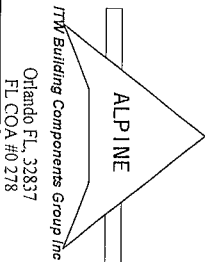
PLT TYP Wave

Design Crit FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

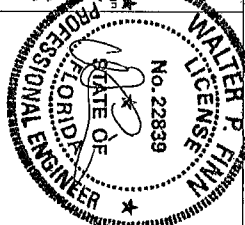
12.03.04 0626 13

QTY: 2 FL/-/5/-/-/R/-

Scale = .5"/Ft.



**\*\*IMPORTANT\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information) on by TPI and WTC for safety practice prior to performing these functions. Installers shall provide temporary bracing per BCSI unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI Section B3 B7 or B10 as applicable.  
ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviation from this design any time Building Components Group Inc or its agents or subcontractors are not properly installing or bracing of trusses. Apply plates to each face of truss and pass on as shown on this drawing. A seal on the drawing or cover page listing the design and the seal acceptance of professional engineering response by ITW Building Components Group Inc shall be required for any structure is designed by ITW Building Components Group Inc. For more information on this job see BCSI Section B3 B7 or B10 as applicable. WTC www.itwbcg.com TPI www.tpiinc.org WTC www.sdcindustry.com



| TC LL    | 20.0 PSF | REF    | R9114- 69292      |
|----------|----------|--------|-------------------|
| TC DL    | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL    | 10.0 PSF | DRW    | HCSR9114 14024174 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WPF            |
| TOT LD.  | 37.0 PSF | SEQN-  | 340727            |
| DUR. FAC | 1.25     | FROM   | JMM               |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02       |

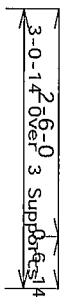
01/24/2014

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf Gcpl(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



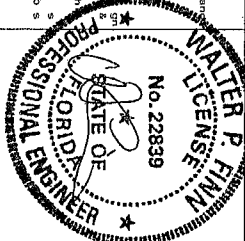
R=79 U=29 (15" min)

$$FT/RT=20\%(0\%)/10(0)$$

QTY:1 FL/-/5/-/-/R/-

Scale = 5"/Ft.

Orlando FL, 32837  
FL COA #0278

[illegible]

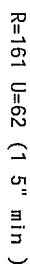
|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69293       |
| TC DL    | 7 0 PSF  | DATE   | 01/24/14           |
| BC DL    | 10.0 PSF | DRW    | HCUSR9114 14024715 |
| BC LL    | 0 0 PSF  | HC-ENG | JB/WMPF            |
| TOT.LD.  | 37 0 PSF | SEQN-  | 340701             |
| DUR.FAC. | 1 25     | FROM   | JMMW               |
| SPACING  | 24.0"    | JREF - | 1V3B487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located  
within 4 50 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=3 5 psf,  
wind BC DL=5 0 psf GCPI (+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



R=121 U=0 (15" min)

6-8-3 Over 3 Supports

R=348 U=45 W=4 (4' min)

RL=97/-36

Design Crit FBC2010Res/TP1-2007(STD)

$$FT/RT = 20\%(0\%) / 10(0)$$

12.03 04 0326 13

QTY:2 FL/-/5/-/-/R/-

Scale = 5"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0278

IMPORTANT\*\* FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating, handling, shipping and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information by TPI and WICA) for safety practices or to perform the same functions. Installations shall provide temporary bracing for the

Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached r g d c l n g. Locat ons shown for permanent lateral restraint of walls shall have bracing installed per BCS Sect ons B3, B7 or B10 as appli cable.

ITW Building Components Group Inc (ITWBCG) shall not be responsible for a

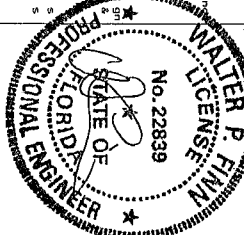
any failure to build the truss in conformance with ANSI/TPI-1 or for handling, shipping or installing the truss. Apply plates to each face of truss and post on as shown above and on the joint bracing of trusses.

Details unless noted otherwise Refer to drawings 160A-Z for standard plate positions A seal on the

draw ng or cover page list ng this draw ng  
draw ng solely for the design shown  
The suitabil ty and use of th s des gn for any structure s  
ndicator acceptance of profess onal eng neer ng

the responsibility of the Building Designer per ANSI/TPI 1 Sec 2 For more information see This job s

general motors page 11W-BLU www fwbcdg com | p | www tp nst org WtCA www sbc industry com  
icc www ccsafe org



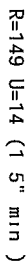
|          |          |                        |
|----------|----------|------------------------|
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| TC DL    | 7.0 PSF  | DATE 01/24/14          |
| BC DL    | 10 0 PSF | DRW HCUSR9114 14024176 |
| BC LL    | 0 0 PSF  | HC-ENG JB/WJPF         |
| TOT.LD   | 37 0 PSF | SEQN- 340673           |
| DUR FAC. | 1.25     | FROM JMW               |
| SPACING  | 24 0"    | JREF- 1V3B487_Z02      |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4 50 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCPI (+/-)=0 18

### Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increases factor for dead load is 1.50



R=365 U=45 W=4 (4 min)  
RL=103/-37

Scale = 5"/Ft

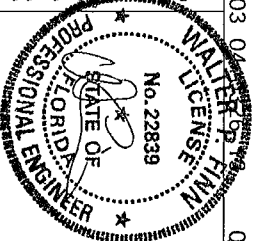
VALLEY FINA  
GENS

ITW Building Components Group Inc.  
Orlando FL, 32837  
FL COA #0278

Orlando FL, 32837  
FL COA #0278

Tensons requi re extensive care in fabricating handi ng, shipping, installi ng and bracing. Refer to the safety  
 folio for the latest edition of BCS's (Bu iding Component Safety) information on TP1 and WTC's (for safety)  
 practices per or to perform any these functi ons. Installers shall provi de temporary braci ng per BCS's  
 Uni less noted otherwise. Top chord shall have properly attached structural sheathi ng and bottom chord  
 shall have properly installed per BCS's secti on 8.5. Each one shown for permanent lateral restrai nt of mids  
 shall have braci ng installed per BCS's secti on 8.5. Braci ng or sti ff as appli cable.

ITW Bu iding Components Group, Inc. (IWBDC's) shall not be responsi ble for any deviat ion from the desi gn  
 any fa ult due to bu idi ng stressi ng in contraventi on of WTA's ANSI/A117.1 or for handi ng, shi ppi ng, installi ng on  
 Decki ng unless noted otherwi se. Refer to drawi ng IWBDC's 1604-2 for standard plate desi gn and detail on the  
 Decki ng or cover plate at thi s locati on. Decki ng catenaci on of progress and/or installi ng on the  
 responsi bility solely for the desi gn shown. The submittal and use of thi s desi gn for any structure is  
 the responsi bility of the Bu iding desi gner. ANSI/A117.1 Sect. 2 for more informati on see. Thi s job shal  
 general notes page. ITW BCS www.bldgcomp.com TP1 www.tp1.net or WTC's www.wtc-industry.com  
 IWBDC's website: www.bldgcomp.com



01/24/2014

|         |          |        |                   |
|---------|----------|--------|-------------------|
| TC LL   | 20 0 PSF | REF    | R9114 - 69295     |
| TC DL   | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL   | 10.0 PSF | DRW    | HOUSE114 14024177 |
| BC LL   | 0 0 PSF  | HC-ENG | JB/MPP            |
| TOT.LD  | 37.0 PSF | SEQN-  | 340693            |
| DUR.FAC | 1.25     | FROM   | JMW               |
| SPACING | 24.0"    | JREF - | 1V3B487_Z02       |



THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

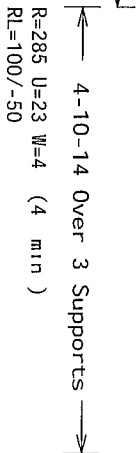
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bidg, not located within 4 50 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=3 5 psf wind BC DL=5 0 psf GCPI (+/-)=0 18

wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MNFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increases

factor for dead load is 1.50



| Design Crit | FBC2010Res/TP1-2007(STD)<br>FT/RT=20%(0%)/10(0) |
|-------------|---|
|-------------|---|

12 03 04

QTY:2 FL/-/5/-/-/R/-

Scale = 5"/Ft.

ALPINE

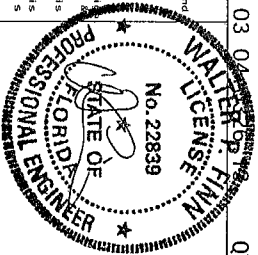
ITW Building Components Group Inc

Orlando FL, 32837  
FL COA #0278

**\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS  
IMPORTANT\*\***

Tolson, require someone care in four call my hand, my sp ng install and bare ng Refer to and follow the latest edition of BCSI (Build ng Comp ng Safety Informa on by FBI and WTA) for safety practices need ed to performing these func ons Insiders shall prov de temporary brace ng per BCSI unless nec ssary otherwise as top chord shall have prop rly attached structural shear ng and bottom chord shall have a prop rly attached "T and C" ing Loose ends shown for permanent structural restrai nt of webbs shall have installed per BCSI sections G3 B7 or B10 as appl cable

**ITW** The id ng Components Group Inc. (ITWB0G) sha not be respons ble for any dev elopm ent from this deas  
any failure to bu ld the trust, n conference w th ANS/TP 1 or for hand ling sh ip ng installation o  
dring of trussess. Apply places to each place of truss and post o as shown above and on the Joint  
one m of cover pages. Add resses to draw ing TB06-2 for standard placed b e one. A total on this  
the respons b ly solely for the des ign show. The sub title u se of th s infom ation for any structure is  
the respons b ly of the bu ldng des gner per ANSI/TPI 1 Sec 2. For more details on see Th s job s  
general notes page ITW BCG www twbco com TP1 www tpnort org WTCA www sbc industry com  
CC www ccscatg org



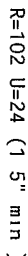
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| TC DL    | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL    | 10.0 PSF | DRW    | HOUSE114 14024178 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/MPP            |
| TOT.LD.  | 37.0 PSF | SEQN-  | 340665            |
| DUR.FAC. | 1.25     | FROM   | JMW               |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02       |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bidg, not located within 4 50 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=3 5 psf wind BC DL=5 0 psf GCPI (+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets  $L/240$  live and  $L/180$  total load Creep increase factor for dead load is 1.50



Scale = 5"/Ft

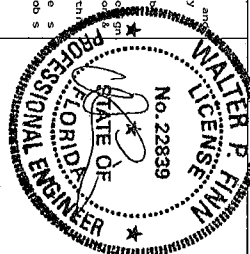
ITW Building Components Group Inc.  
Orlando FL, 32837  
FL COA #0 278

• **IMPORTANT - SUBMIT THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

Trusses can be extremely easy to fabricate and handling, shipping and installing. Refer to and follow the latest edition of BCSI (Building Component Safety) Information by TPI and WTCA for safety practices prior to or performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, all top chord shall have properly attached structural sheathing and become exposed to weather. All other surfaces shall be protected with a minimum of 1/2" sheathing. All external fasteners shall have one end installed per BCSI section 8.5.7 or 8.10 as applicable.

17W Building Components Group Inc. (17WBCG) shall not be responsible for any damage or loss due to any failure to build the trusses in conformance with ANSI/TPI 1 or for handling, shipping or installing the trusses. Apply places to each face of truss and post it on as shown above and on the Joist Details as unless noted otherwise. Refer to draw nos. 160A-2 for standard plate positions. A seal on the drawing will cover page 1 stating the drawing number and dates approval of process and engineering. The responsibility of the Building Designer per ANSI/TPI 1, Sec 2. For more information on this subject, please contact the Building Designer or TPI. [www.tpi.net](http://www.tpi.net)

general notes page 17W BCG [www.tpi.net](http://www.tpi.net) WTCA [www.the-wood-company.com](http://www.the-wood-company.com) [www.woodcare.org](http://www.woodcare.org)



01/24/2014

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69297      |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL    | 10 0 PSF | DRW    | HCSR9114 14024179 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/MPP            |
| TOT.LD.  | 37.0 PSF | SEQN-  | 340739            |
| DUR.FAC. | 1.25     | FROM   | JMW               |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02       |

(14-005C--BRYAN ZECHER /Jones/Goodson Residence -- Lake City, FL - C18 6 4 14 Jack)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B

Lumber grades designated with 13B use design values approved  
1/30/2013 by ALSC

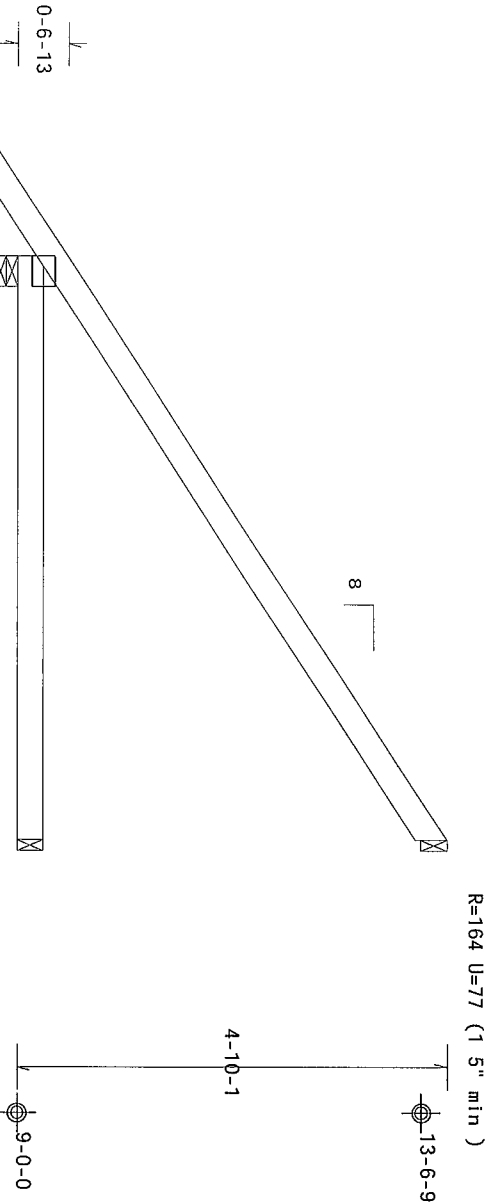
Bottom chord checked for 10 00 psf non-concurrent live load

MMFRS loads based on trusses located at least 7 50 ft from roof edge

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GCPI(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member  
design

Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1 50



6-4-14 Over 3 Supports

R=340 U=23 W=4 (4' min)  
RL=125/-57

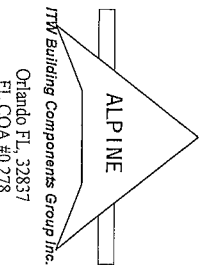
PLT TYP Wave

Design Crit FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

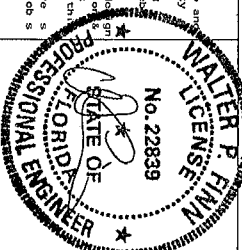
12.03 04 2013

QTY: 1 FL/-/5/-/-/R/-

Scale = 5"/Ft.



**\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET**  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS  
Trusses require extreme care in handling, shipping, and bracing. Refer to the  
latest edition of BCSI (Building Component Safety Information by TPI and WTC) for safety  
practices prior to performing these functions. Installers shall provide temporary bracing per BCSI  
unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord  
shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of web  
shall have bracing installed per BCSI sheet one B3 B7 or B10 as applicable.  
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design  
any failure to build the truss in conformance with ANSI/TP1 1 or for handling, shipping, installing, or  
using the truss. The user shall be responsible for the proper use of the truss. The user shall be  
responsible for the proper use of the truss. The user shall be responsible for the proper use of the truss.  
Data is unless noted otherwise. Refer to drawings 1004-2 for standard plate and nut on the  
drawing or cover page 1 of this design. The suitability and use of this design for any structure is  
the responsibility of the Building Designer per ANSI/TP1 1 Sec 2. For more information see  
the general notes page ITW-BCG www.twbcg.com TPI www.tpi.net org WTC www.sbcindustry.com This job is  
IDC www.sbcindustry.com



| TC LL    | 20.0 PSF | REF R9114- 69298      |
|----------|----------|-----------------------|
| TC DL    | 7.0 PSF  | DATE 01/24/14         |
| BC DL    | 10.0 PSF | DRW HCUR9114 14024180 |
| BC LL    | 0.0 PSF  | HC-ENG JB/WPF         |
| TOT.LD.  | 37.0 PSF | SEQN- 340663          |
| DUR.FAC. | 1.25     | FROM JMW              |
| SPACING  | 24.0"    | JREF- 1V3B487_Z02     |

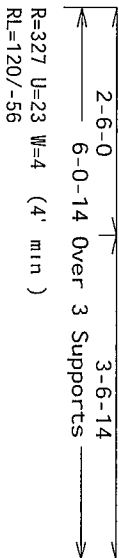
01/24/2014

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf Gcp1(+/-)=0 18

## Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



Scale = .5"/Ft.

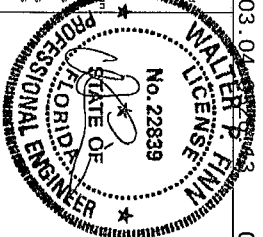
**ITW Building Components Group Inc.**

Orlando FL, 32837  
FL COA #0278

**\*\*IMPORTANT\*\*** **URNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Tussocks require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI Building Component Sirey Information on by TPI and WTCA for safety practice prior to performing these functions. Installers shall provide temporary bracing per BCSI Tussocks noted otherwise. Two chord walls have properly attached structural lateral and bottom chords. Tussocks shall have bracing installed per BCSI section 85, 87 or 810 for applications.

17W-Building Components Group Inc. (LTBROG) shall provide the response to the request for information. Any failure to build the Tussock in conformance with the ANSI/TPI 1-10 or for hand and on the joint bracing of Tussocks. Apply penalties to each place of Tussock and position as shown above and on the joint details. Units noted otherwise. Refer to drawings 160A-2 for standard positions. A seal on the drawing or cover page indicating the drawing and notes acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1-10 Sec 2. For more information see structure 5. This job is general notice page 17W-BGCG www.tlwdog.com TPI www.tlwdog.org WTCA www.sbc-industry.com CC www.ccsa.org



|          |          |        |                  |
|----------|----------|--------|------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69299     |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14         |
| BC DL    | 10.0 PSF | DRW    | H056114 14024181 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WPF           |
| TOT.LD.  | 37.0 PSF | SEQN-  | 340677           |
| DUR.FAC. | 1.25     | FROM   | JMW              |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02      |

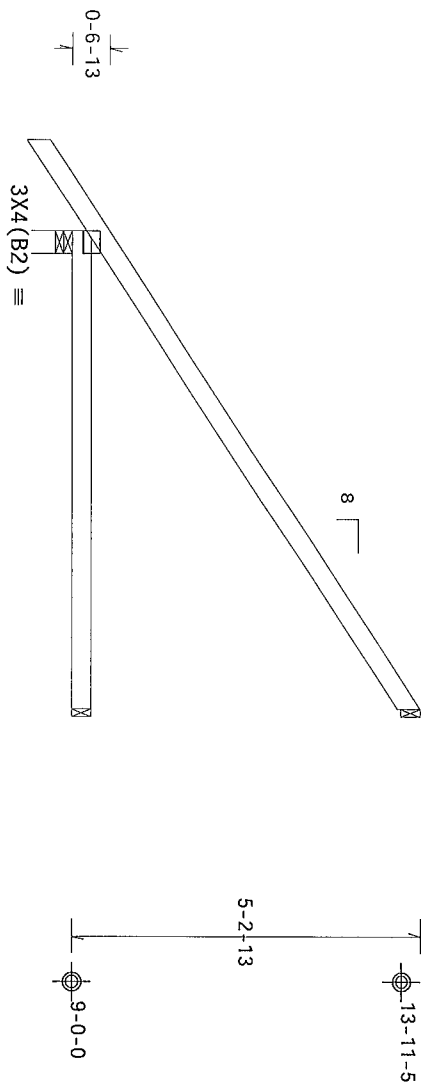
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf Gcpl(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&amp;C member design

Deflection meets L/240 live and L/180 total load Creep increases factor for dead load is 1.50

MMFRS loads based on trusses located at least 7 50 ft from roof edge



R=180 U=84 (15" min)

R=133 U=0 (15" min)

7-0-0 Over 3 Supports

R=362 U=23 W=4 (4 min)  
 RL=135/-60

| PLT TYP | Wave |
|---------|------|
| 1       | 1    |
| 2       | 2    |
| 3       | 3    |
| 4       | 4    |
| 5       | 5    |
| 6       | 6    |
| 7       | 7    |
| 8       | 8    |
| 9       | 9    |
| 10      | 10   |
| 11      | 11   |
| 12      | 12   |
| 13      | 13   |
| 14      | 14   |
| 15      | 15   |
| 16      | 16   |
| 17      | 17   |
| 18      | 18   |
| 19      | 19   |
| 20      | 20   |
| 21      | 21   |
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| 91      | 91   |
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| 93      | 93   |
| 94      | 94   |
| 95      | 95   |
| 96      | 96   |
| 97      | 97   |
| 98      | 98   |
| 99      | 99   |
| 100     | 100  |

| Design Crit | FBC2010Res/TP1-2007(STD)<br>FT/RT=20%(0%)/10(0) |
|-------------|---|
|-------------|---|

12.03.04

QTY:8 FL/-/5/-/-/R/-

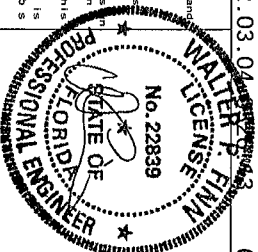
Scale = .375"/Ft.

\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET!  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

ALPINE

ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0278



01/24/2014

|           |          |        |                    |
|-----------|----------|--------|--------------------|
| TC LL     | 20.0 PSF | REF    | R9114- 69300       |
| TC DL     | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL     | 10.0 PSF | DRW    | HCUS63114 14024182 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WMPF            |
| TOT. LD.  | 37.0 PSF | SEQN-- | 340661             |
| DUR. FAC. | 1.25     | FROM   | JMMW               |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GCPI(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load Creep increases factor for dead load is 1.50

factor for dead load is 1.50

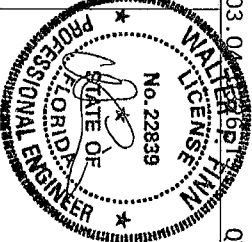

$$FT/RT=20\%(0\%)/10(0)$$

12.03.04 15:27:60

QTY:4 FL/-/5/-/-/R/-

Scale = .375"/Ft.

ITW Building Components Group Inc  
Orlando FL, 32837  
FL COA #0 278

[illegible]

01/24/2014

|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69301      |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL    | 10.0 PSF | DRW    | HCSR9114 14024183 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WMPF           |
| TOT.LD.  | 37.0 PSF | SEQN-  | 340669            |
| DUR.FAC. | 1.25     | FROM   | JMMW              |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02       |

(14-005C--BRYAN ZECHEER /Jones/Goodson Residence -- Lake City, FL - EJT8 6 8' End Jack)

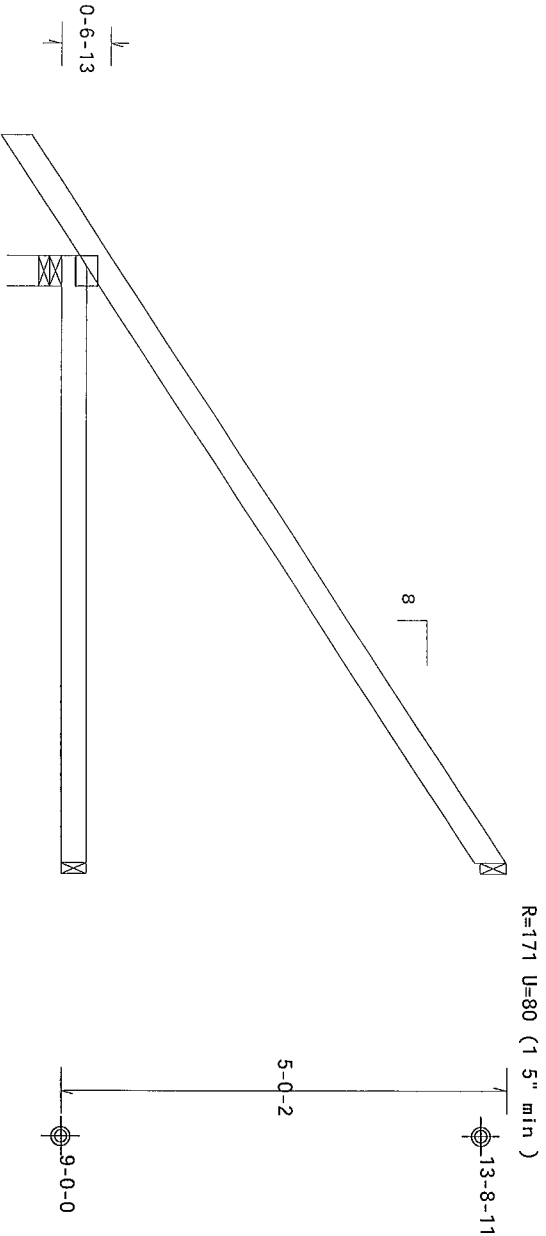
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B

Lumber grades designated with 13B' use design values approved  
1/30/2013 by ALSC

Bottom chord checked for 10 00 psf non-concurrent live load

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GCPI(+/-)=0 18  
Wind loads and reactions based on MMFRS with additional C&C member  
design  
Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1 50



PLT TYP Wave

Design Crit FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03.00

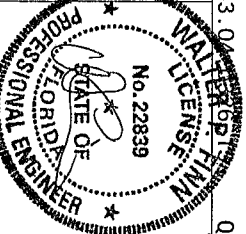
QTY: 15 FL/-/5/-/1/R/-

Scale = .5"/Ft.

ALPINE

ITW Building Components Group Inc.  
Orlando FL 32837  
FL COA #0278

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS  
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and  
follow the latest edition of BCSI (Building Component Safety Information) by TPI and WTCI for safety  
practices prior to performing these functions. Installers shall provide temporary bracing per BCSI  
unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord  
shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs  
shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.  
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design  
and specifications. Trusses shall be constructed in accordance with ANSI/TPI 1 or for handling, shipping, installation  
and bracing of trusses. Refer to drawings 1604-Z for standard plate positions. A seal on this  
drawing or cover page stating this design and codes acceptance of professional engineering must be  
drawn and signed by the designer for the design shown. The suitability and use of this design for any structure  
the responsibility of the building designer per ANSI/TPI 1 Sec 2. For more information see  
the general notes page ITW BCG www.truss.com TPI www.truss.com WTCI www.sbcindustry.com This job is  
IDC www.sbcindustry.com



|          |          |                       |
|----------|----------|-----------------------|
| TC LL    | 20.0 PSF | REF R9114- 69302      |
| TC DL    | 7.0 PSF  | DATE 01/24/14         |
| BC DL    | 10.0 PSF | DRW HCUR9114 14024184 |
| BC LL    | 0.0 PSF  | HC-ENG JB/WPF         |
| TOT LD   | 37.0 PSF | SEQN- 340653          |
| DUR.FAC. | 1.25     | FROM JMM              |
| SPACING  | 24.0"    | JREF- 1V3B487_Z02     |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

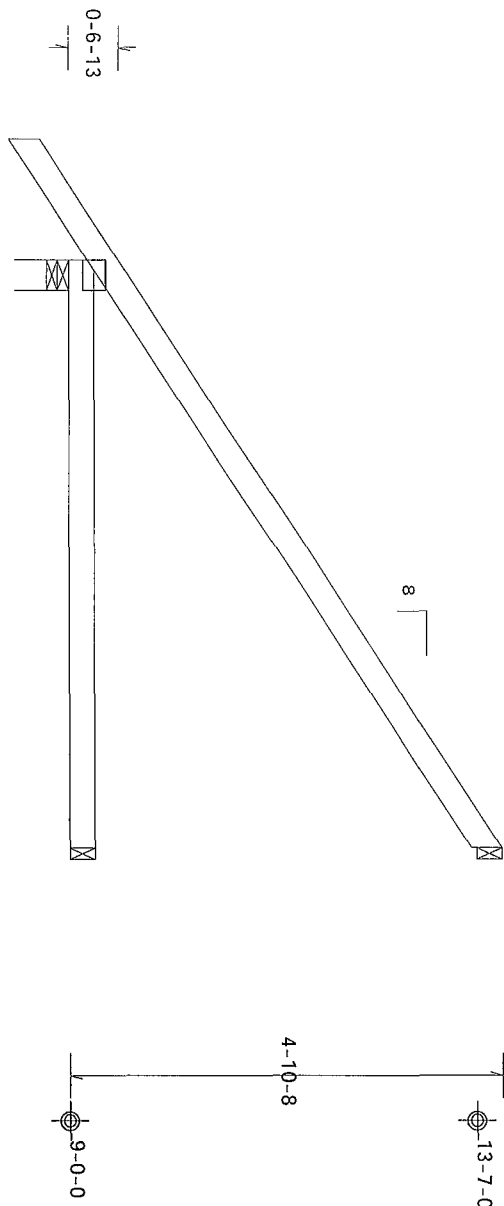
Lumber grades designated with '13B' use design values approved 1/30/2013 by ALSC

Wind loads and reactions based on MWFRS with additional G&C member  
120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLUSTED bldg, located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GCPI(+/-)=0 18

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets  $L/240$  live and  $L/180$  total load Creep increase factor for dead load is 1.50

R=165 U=78 (15" min)



R=123 U=0 (1 5" min)

R=342 U=23 W=4' (4" min)  
RL=126/-58

PLT Typ Wave

|             |   |
|-------------|---|
| Design Crit | FBC2010Res/TP1-2007(STD)<br>FT/RT=20%(0%)/10(0) |
|-------------|---|

12 03.04.2013

QTY:1 FL/-/5/-/-/R/-

Scale = .5"/Ft.

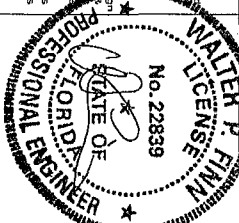
ALPINE

**ITW Building Components Group Inc.**  
Orlando FL, 32837  
FL COA #0278

**\*IMPORTANT\*** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require crane care in fabricating, handling, shipping, installing and bracing. Refer to another section of this manual for more information on bracing. For safety, follow the placement of OCS (Building Component Safety) information on by TPI and WFO for safety. Practice care prior to performing these functions. Installers shall provide temporary bracing per OCS. Unless noted otherwise, no top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached girded ceiling. Load on, as shown for permanent lateral restraint of web. Installers shall have bracing installed per OCS section 83, B7 or B10 as applicable.

ITV Bu id ng Components Group Inc (ITVBCG) sha not be responsible for any delay at on from the date of the order. The order will be shipped to the customer's address as shown above and on the date of the order. Any failure to bu id the Trusts in conformance w th the ANS/ITP1 or for handling sp ip ng installati on of the Trusts or of trustees applying parties to each face of Trusts and pos ti on as shown above and on the date of the order or covering pages 1 st ng th s draw ng and catcs acceptance of professi onal and n eering responsibl ty solely for the des gns shown. The su tual use and use of th s des gns for any structure for which the customer is responsible i y of the Trusts Des gns per ANS/ITP1 Sec 2. For more informati on see Th s job s ITV Bu id ng Components Group Inc (ITVBCG) sha not be responsible for any delay at on from the date of the order. The order will be shipped to the customer's address as shown above and on the date of the order. Any failure to bu id the Trusts in conformance w th the ANS/ITP1 or for handling sp ip ng installati on of the Trusts or of trustees applying parties to each face of Trusts and pos ti on as shown above and on the date of the order or covering pages 1 st ng th s draw ng and catcs acceptance of professi onal and n eering responsibl ty solely for the des gns shown. The su tual use and use of th s des gns for any structure for which the customer is responsible i y of the Trusts Des gns per ANS/ITP1 Sec 2. For more informati on see Th s job s



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69303      |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL    | 10.0 PSF | DRW    | HCSR9114 14024185 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/MFP            |
| TOT.LD.  | 37.0 PSF | SEQN-  | 340655            |
| DUR.FAC. | 1.25     | FROM   | JMW               |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02       |



Top chord 2x4 SP 2850F-2 3E T1 2x4 SP M-30  
Bot chord 2x4 SP 2850F-2 3E  
Webs 2x4 SP #3-13B W9 2x4 SP #2-13B  
W11 2x4 SP #1-13B  
Lt Wedge 2x6 SP #2-13B

Lumber grades designated with '13B use design values approved  
1/30/2013 by ALSC

(1) - plates so marked were sized using a Fabrication Tolerance of 0%  
and a Rotational Tolerance of 0 degrees

120 mph wind 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located  
within 9 00 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=3 5 psf  
wind BC DL=5 0 psf GCPI(+/-)=0 18

Wind loads and reactions based on MMFRS

Calculated horizontal deflection is 0 12 due to live load and 0 16  
due to dead load

Bottom chord checked for 10 00 psf non-concurrent live load

Calculated vertical deflection is 0 49' due to live load and 0 63 due  
to dead load at X = 21-7-6

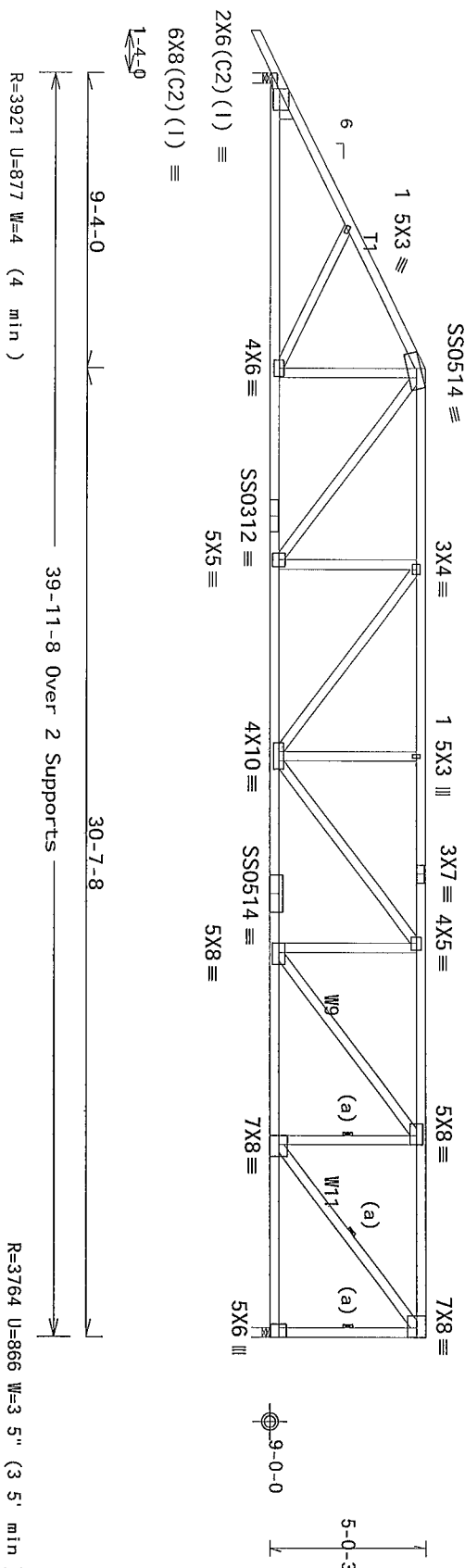
Special loads

|             |  |
|-------------|--|
| -----Lumber | Dur Fac =1 25 / Plate Dur Fac =1 25)               |
| TC-From     | 56 pif at -1 33 to 56 pif at 9 33                  |
| TC-From     | 28 pif at 9 33 to 28 pif at 37 40                  |
| TC-From     | 56 pif at 37 40 to 56 pif at 39 96                 |
| TC-From     | 4 pif at -1 33 to 4 pif at 0 00                    |
| BC-From     | 20 pif at 0 00 to 20 pif at 9 36                   |
| BC-From     | 10 pif at 9 36 to 10 pif at 39 96                  |
| BC-From     | 20 pif at 37 40 to 20 pif at 39 96                 |
| TC-170      | 86 lb Conc Load at 9 40,11 40,13 40,15 40          |
| TC-170      | 19 40,21 40,23 40,25 40,27 40,29 40,31 40,33 40    |
| BC-1309     | 57 lb Conc Load at 9 36                            |
| BC-126      | 54 lb Conc Load at 11 40,13 40,15 40,17 40         |
| BC-126      | 40,21 40,23 40,25 40,27 40,29 40,31 40,33 40,35 40 |
| 37 40       |  |

Right end vertical not exposed to wind pressure

(a) Continuous lateral restraint equally spaced on member

Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1 50



PLT TYP 18 Gauge HS.Wave

Design Crit FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03 04.03.26.13

QTY:1 FL/-/5/-/-/R/-

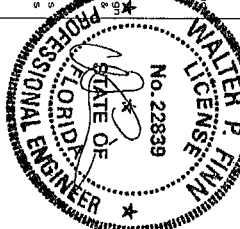
Scale = .1875"/Ft.

ALPINE

ITW Building Components Group Inc.

Orlando FL 32837  
FL COA #0278

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS  
Trusses must be erected with care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety) information on by TPI and WTC. For safety practice, prior to perforating those functions, installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI. See notes 53, 57 or 510 as applicable. Locations shown for permanent lateral restraint of web.  
The Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or for any damage to the building or its contents caused by the use of this design. A seal on the drawing or cover page listing this design and the acceptance of professional engineering shall be the responsibility of the designer for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer per ASCE/TP1 Sec 2. For more information see this job's general notes page. The BCSI www.bcsi.com TPI www.tpi.com WTC www.wtc.com. This job's general notes page. The BCSI www.bcsi.com TPI www.tpi.com WTC www.wtc.com.



| TC LL    | 20.0 PSF | REF R9114- 69304       |
|----------|----------|------------------------|
| TC DL    | 7.0 PSF  | DATE 01/24/14          |
| BC DL    | 10.0 PSF | DRW HOURS9114 14024204 |
| BC LL    | 0.0 PSF  | HC-ENG JB/WPF          |
| TOT LD   | 37.0 PSF | SEQN- 346476           |
| DUR.FAC. | 1.25     | FROM JMM               |
| SPACING  | 24.0"    | JREF- 1V3B487_Z02      |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFG

## 2 COMPLETE TRISSSES REQUIRED

| Task           | Time (min) | Resources |
|----------------|------------|-----------|
| Na1 Schedule 0 | 128 x3     | min nails |

Use equal spacing between rows and stagger nails in each row to avoid splitting

(\*\*) 1 place(s) require special positioning Refer to scaled plate(s) plot details for special positioning requirements

| 120 mph wind<br>within 9 00 ft<br>wind BC DL=5 0 psf | 15 00 ft mean hgt<br>from roof edge<br>GCpi(+/-)=0 18 | ASCE 7-10<br>RISK CAT 11 | CLOSED<br>EXP C | bidg not located<br>wind TC DL=3 5 psf |
|--|---|--------------------------|-----------------|--|
|--|---|--------------------------|-----------------|--|

Wind loads and reactions based on MWFRS

Right end vertical not exposed to wind pressure

Calculated horizontal deflection is 0.14 due to live load and 0.17 due to dead load

Hanger support required by others

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets L/240 live and L/180 total load Creep increases factor for dead load is 1.50

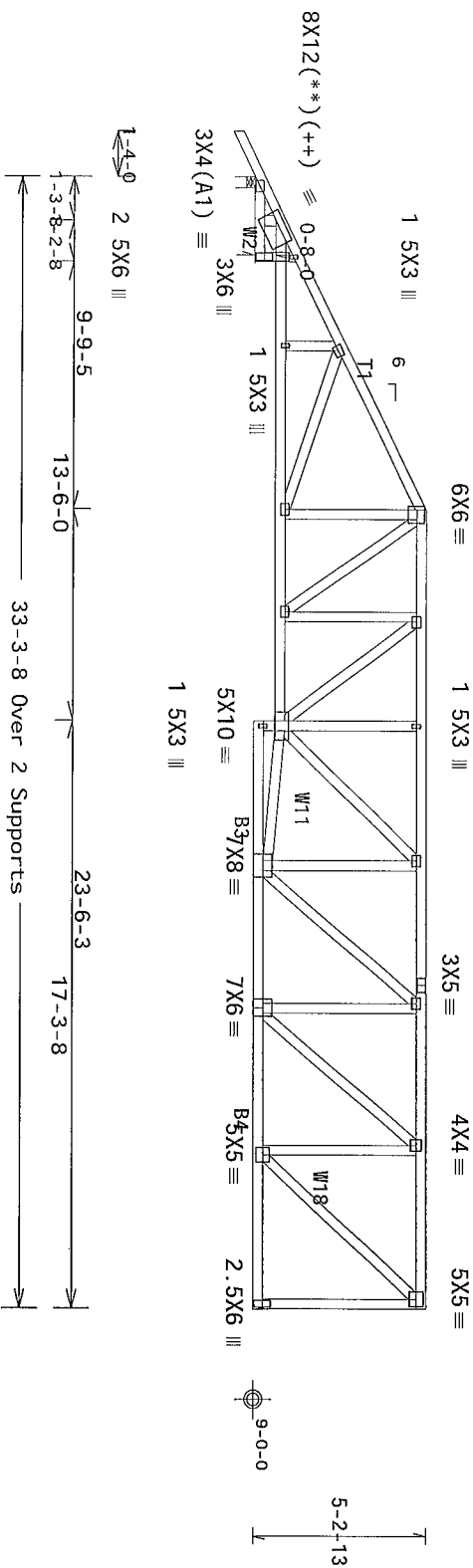
```

Lumber value set 138 uses design values approved 1/

-----Special loads
TC- From Dur Fac =1.25 / Plate Dur Fac =1.25)
TC- From 56 p.f. at -1.33 to 56 p.f. at 9.78
TC- From 28 p.f. at 9.78 to 28 p.f. at 23.78
TC- From 28 p.f. at -1.33 to 28 p.f. at 33.29
BC- From 4 p.f. at -1.33 to 4 p.f. at 0.00
BC- From 20 p.f. at 0.00 to 20 p.f. at 2.50
BC- From 20 p.f. at 2.50 to 20 p.f. at 9.81
BC- From 10 p.f. at 9.81 to 10 p.f. at 16.00
BC- From 10 p.f. at 16.00 to 10 p.f. at 24.46
BC- From 10 p.f. at 24.46 to 10 p.f. at 33.29
TC- From 116.99 lb Conc Load at 9.84 11.84 13.84 15.84
TC- From 179.87 lb Conc Load at 17.84 19.84 21.84 23.84
25 BC- 27.84 29.84 31.84
BC- 118.88 lb Conc Load at 9.81
BC- 156.08 lb Conc Load at 11.84 13.84 15.84
BC- 132.92 lb Conc Load at 17.84 19.84 21.84 23.84
25 BC- 27.84 29.84 31.84

(+++) - This plate works for both joints covered

```



R=3076 U=719 W=4" (1 908 min)

R=3262 U=775  
H=H1

Note All Plates Are 3X4 Except As Shown

| PLT TYP | Wave | Design Crit | FBC2010Res/TP1-2007(STD)<br>FT/RT=20%(O%)/10(O) |
|---------|------|-------------|---|
|---------|------|-------------|---|

13.02 00 0926 18

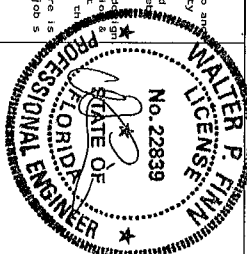
QTY:1 FL/-/5/-/-/R/-

Scale = 1875"/Ft

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

ALPINE

ITW Building Components Group Inc.  
Orlando FL, 32837  
FL COA #0 278



|           |          |        |                   |
|-----------|----------|--------|-------------------|
| TC LL     | 20.0 PSF | REF    | R9114 - 69305     |
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | HCSR9114 14024205 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WMPF           |
| TOT LD    | 37.0 PSF | SEQN - | 7814 REV          |
| DUR. FAC. | 1.25     | FROM   | JMMW              |
| SPACING   | 24.0"    | JREF - | 1V3B487_Z02       |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Webbs 2x4 SP #3-13B  
Lt Slider 2x4 SP #3-13B BLOCK LENGTH = 1 500

Lumber grades designated with '13B' use design values approved 1/30/2013 by ALSC

120 mph wind 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, located  
anywhere in roof, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GCp1(+/-)=0 18

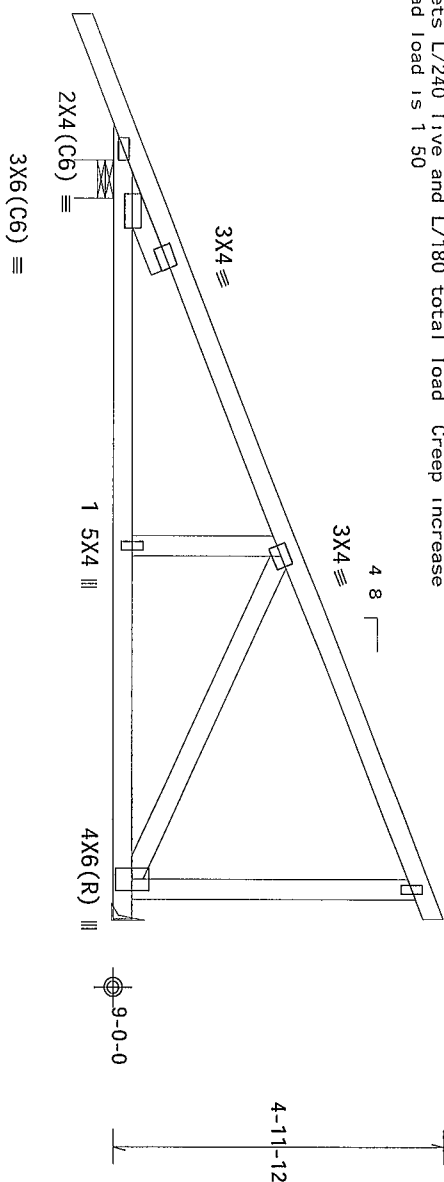
Wind loads and reactions based on MWFRS

Left cantilever is exposed to wind

(J) Hanger Support Required, by others

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets L/240 live and L/180 total load Creep increases factor for dead load is 1.50



R=953 U=229 W=6 667' (6 667 min)

R=1183 U=251  
H=H1

PLT TYP Wave

|             |   |
|-------------|---|
| Design Crit | FBC2010Res/TP1-2007(STD)<br>FT/RT=20%(0%)/10(0) |
|-------------|---|

12.03.04-0026-13

QTY:1 FL/-/5/-/-/R/-

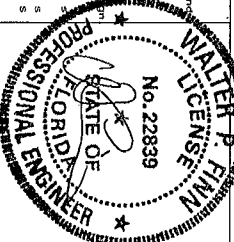
Scale = .375"/Ft.

**• IMPORTANT •**  
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

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ITW Building Components Group Inc

Orlando FL, 32837  
FL COA #0278



~~01/24/2014~~

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R9114 - 69306      |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL    | 10.0 PSF | DRW    | HCUSR9114 14024206 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WMPF            |
| TOT.LD.  | 37 0 PSF | SEQN-  | 341345             |
| DUR.FAC. | 1.25     | FROM   | JMM                |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02        |



THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Webs 2x4 SP #3-13B

BLOCK LENGTH = 1 500'

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

120 mph wind 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, located  
anywhere in roof, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf GC<sub>01</sub>(+/-)=0 18

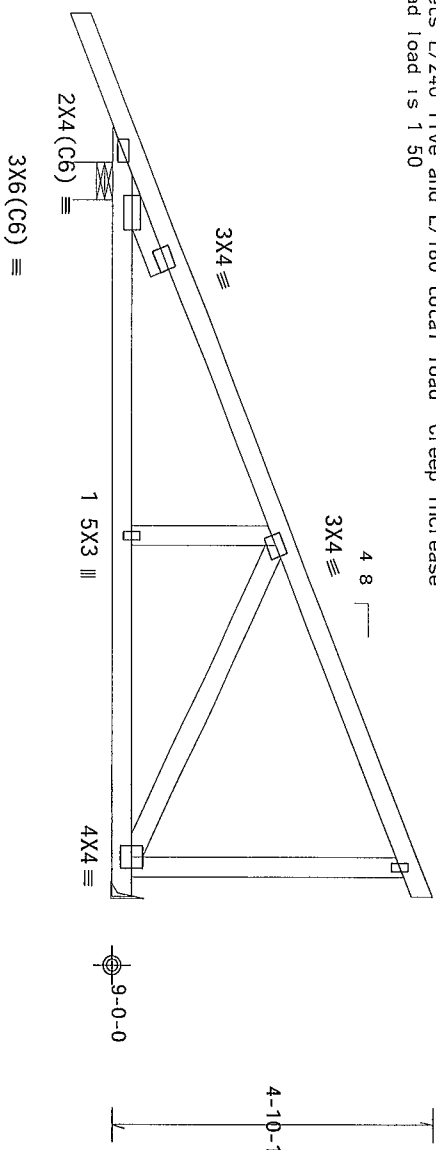
Wind loads and reactions based on MWFRS

Left cantilever is exposed to wind

(J) Hanger Support Required, by others

Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets  $L/240$  live and  $L/180$  total load Creep increase factor for dead load is 1.50



1.5X3 II:

| special loads     |          | Dur   | Fac =1.25 / | Plate     | Dur   | Fac =1.25) |
|-------------------|----------|-------|-------------|-----------|-------|------------|
| ----- (Lumber     |          |       |             |           |       |            |
| TC-From           | 0 pif at | -1.67 | to          | 55 pif at | 0.00  |            |
| TC-From           | 2 pif at | 0.00  | to          | 2 pif at  | 11.27 |            |
| BC-From           | 0 pif at | -1.67 | to          | 4 pif at  | 0.00  |            |
| BC-From           | 2 pif at | 0.00  | to          | 2 pif at  | 11.27 |            |
| TC-1.45 lb Conc   | Load at  |       |             | 1.68      |       |            |
| TC-25.46 lb Conc  | Load at  |       |             | 3.77      |       |            |
| TC-88.72 lb Conc  | Load at  |       |             | 5.02      |       |            |
| TC-78.11 lb Conc  | Load at  |       |             | 6.27      |       |            |
| TC-160.79 lb Conc | Load at  |       |             | 8.35      |       |            |
| TC-122.21 lb Conc | Load at  |       |             | 8.77      |       |            |
| BC-16.25 lb Conc  | Load at  |       |             | 1.68      |       |            |
| BC-34.02 lb Conc  | Load at  |       |             | 3.77      |       |            |
| BC-69.79 lb Conc  | Load at  |       |             | 5.02      |       |            |
| BC-63.62 lb Conc  | Load at  |       |             | 6.27      |       |            |
| BC-120.66 lb Conc | Load at  |       |             | 8.35      |       |            |
| BC-92.69 lb Conc  | Load at  |       |             | 8.77      |       |            |

11-3-4 Over 2 Supports  $\rightarrow$   
 R=428 U=95 W=6 667" (6 667 min) R=542 U=97

PLT TYP Wave

| Design Crit         | FBC2010Res/TP1-2007(STD) |
|---------------------|--------------------------|
| FT/RT=20%(0%)/10(0) |                          |

12 03.04

QTY:1 FL/-/5/-/-/R/-

Scale = .375"/Ft.

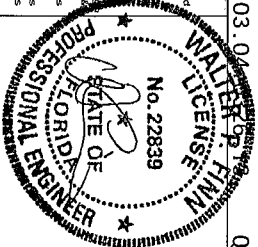
ALPINE

ITV Building Components Group Inc

Orlando FL, 32837  
FL COA #0278

••IMPORTANT••  
 WARNING READ AND FOLLOW ALL NOIES ON THIS SHEET  
 FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trussors require extensive care in fabricating, handling, shipping, receiving and bracing. Refer to and follow the latest edition of BCS1 (Bu id ing Component Safety Information by TPI and WTCO) for safety practices prior to performing any these functions. Installers shall provide temporary bracing per BCS1. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid joist. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCS1 section 83 B7 or B10 as applicable.

[illegible]

01/24/2014

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69308       |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL    | 10.0 PSF | DRW    | HCSUR9114 14024197 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WMPF            |
| TOT.LD.  | 37 0 PSF | SEQN-  | 341348             |
| DUR.FAC. | 1.25     | FROM   | JMMW               |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Lumber grades designated with '13B' use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member

Bottom chord checked for 10 00 psf non-concurrent live load

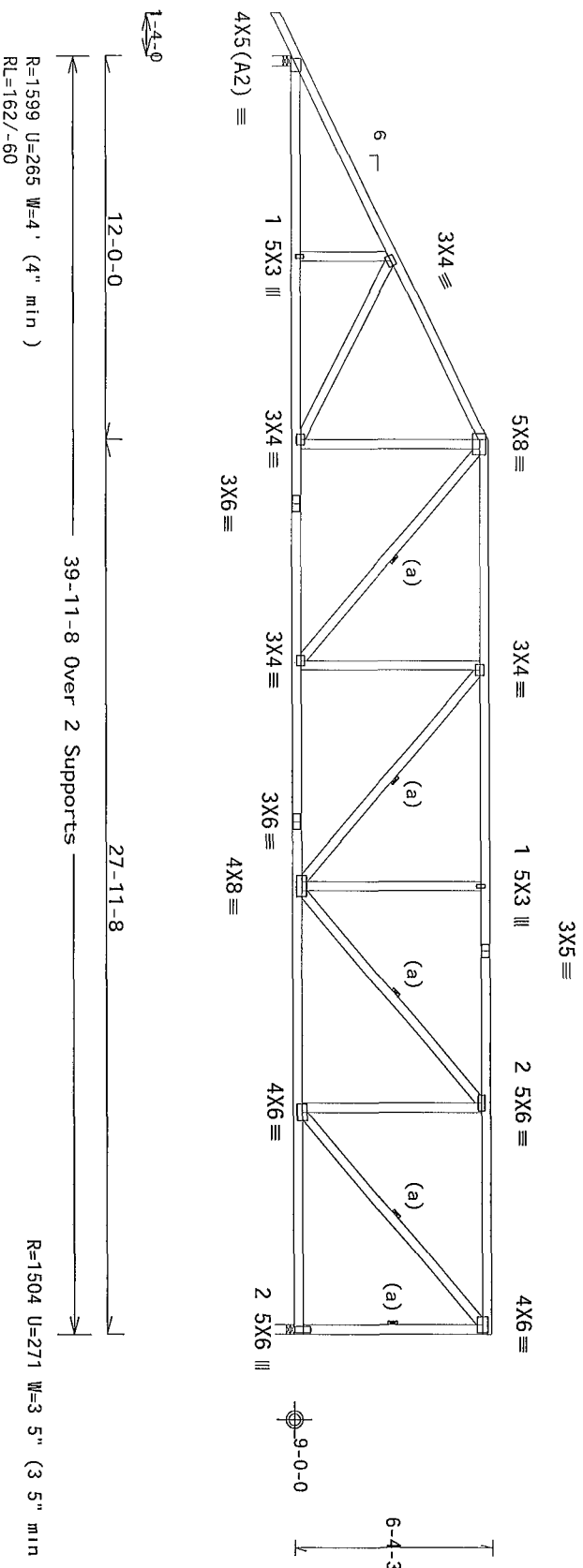
MMFRS loads based on trusses located at least 7 50 ft from roof edge

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located  
within 9 00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=3 5 psf,  
wind BC DL=5 0 psf Gcpl (+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&amp;C member design

Right end vertical not exposed to wind pressure

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50



PLT TYP Wave

| Design Crit | FBC2010Res/TP1-2007(STD)<br>FT/RT=20%(0%)/10(0) |
|-------------|---|
|-------------|---|

12.03.04

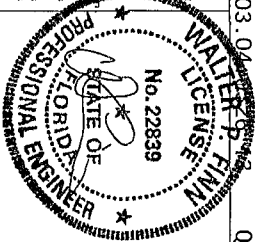
QTY:1 FL/-/5/-/-/R/-

Scale = .1875"/Ft.

ALPINE

ITW Building Components Group Inc.  
Orlando FL, 32837  
FL COA #0 278

**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

[illegible]

01/24/2014

|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69309       |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL    | 10.0 PSF | DRW    | HCSUR9114 14024186 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/WMP             |
| TOT.LD   | 37.0 PSF | SEQN-  | 346482             |
| DUR.FAC. | 1.25     | FROM   | JMW                |
| SPACING  | 24 0"    | JREF-  | 1V3B487_Z02        |

Top chord 2x4 SP #1-13B T1 2x4 SP M-30  
Bot chord 2x4 SP #1-13B W1, W2 2x4 SP #2-13B  
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved  
1/30/2013 by ALSC

(H1) = (J) Special hanger required (2)2x6 SP M-26  
supporting member

(a) Continuous lateral restraint equally spaced on member

Bottom chord checked for 10 00 psf non-concurrent live load

MMFRS loads based on trusses located at least 7 50 ft from roof edge

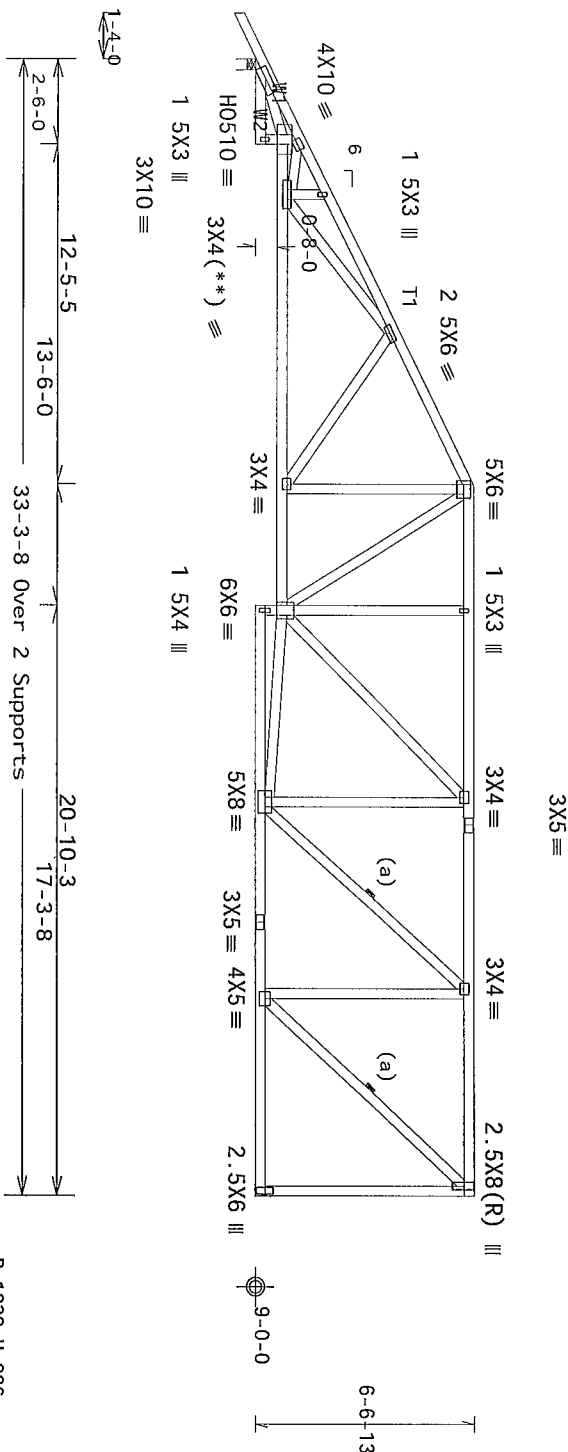
(\*\*) 1 plate(s) require special positioning Refer to scaled plate  
plot details for special positioning requirements

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located  
within 9 00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=3.5 psf,  
wind BC DL=5 0 psf GCPI(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member  
design

Right end vertical not exposed to wind pressure

Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1 50.



R=1361 U=219 W=4' (4" min)  
RL=168/-56

R=1238 U=226  
H=H1

PLT TYP 20 Gauge HS.Wave

Design Crit FBC2010Res/TPI-2007(STD)

FT/RT=20%(0%)/10(0)

12.03.04

QTY:1 FL/-/5/-/-/R/-

Scale = .1875"/Ft.

IMPORTANT\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET!

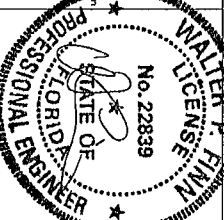
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS  
Trusses from the extreme care in fabricating, handling, shipping, installing and bracing. Refer to and  
follow the latest edition of the BCSI (Building Component Safety) Information on by TPI and WTC (For safety  
practices prior to performing these functions. Installers shall provide temporary bracing per BCSI  
unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord  
shall have a properly attached rafter girding. Locate one shown for permanent lateral restraint of webs.  
shall have bracing installed per BCSI sheet one B3 B7 or B10 as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design  
any failure to build the trusses in accordance with the ANSI/TPI 1 or for handling, shipping, installing  
or bracing the trusses. The user shall be responsible for the proper installation and use of the trusses.  
Deca is unless noted otherwise. Refer to drawings 1004-2 for standard plate positions. A seal on this  
drawing or cover page stating this drawing and the acceptance of professional engineer means the  
responsibility solely for the design shown. The suitability and use of this design for any structure is  
the responsibility of the building designer per ANSI/TPI 1 Sec 2. For more information on this job's  
general notes page ITW BCG www.itwbcg.com TPI www.tpiinc.org WTC www.sbcindustry.com

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Orlando FL, 32837  
FL COA #0278



01/24/2014

| TC LL     | 20.0 PSF | REF    | R9114- 69310      |
|-----------|----------|--------|-------------------|
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | HCSR9114 14024187 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WPF            |
| TOT. LD   | 37.0 PSF | SEQN-  | 341526            |
| DUR. FAC. | 1.25     | FROM   | JMW               |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02       |

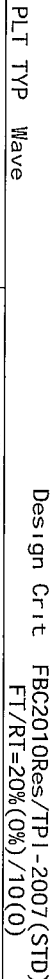
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bid, not located within 9 00 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCPI (+/-)=0 18

### Wind loads and reactions based on MMFRS with additional C&C member design

Right end vertical not exposed to wind pressure

Deflection meets L/240 live and L/180 total load Creep increases



Scale = .1875"/Ft

REF R9114- 69317

DATE 01/24/14

DRW HCUSR9114 1402418

HC-ENG IB/M/DE

SEON 346478

|      |      |
|------|------|
| EDOM | IMM/ |
|------|------|

# AMERICAN

UJET- IV3B481\_202



Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B  
Webs 2x4 SP #3-13B W1, W2 2x4 SP #2-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

(H1) = (J) Special hanger required (2)2x6 SP M-26 supporting member

(a) Continuous lateral restraint equally spaced on member

Bottom chord checked for 10 00 psf non-concurrent live load

MMFRS loads based on trusses located at least 7 50 ft from roof edge

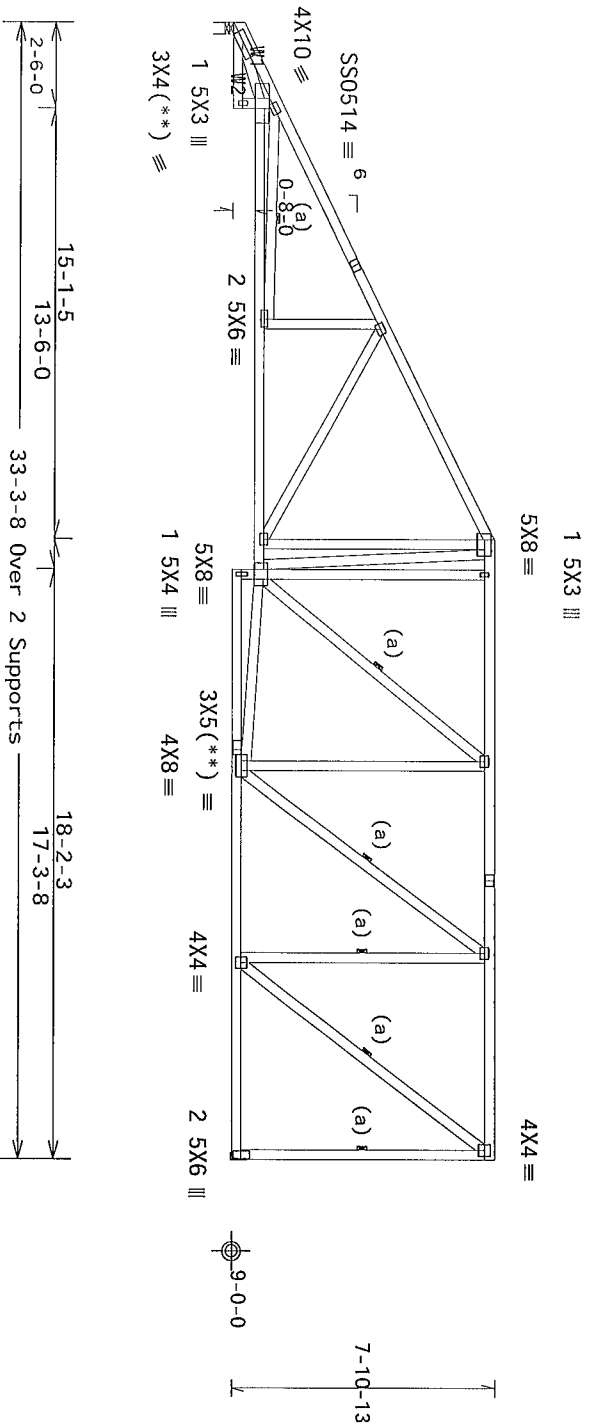
(\*\*) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCPI(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Right end vertical not exposed to wind pressure

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



R=1241 U=185 W=4 (4' min)  
RL=179/-44  
R=1241 U=233  
H=H1

Note All Plates Are 3X4 Except As Shown  
Design Crit FBC2010Res/TPI-2007(STD)  
PLT TYP 18 Gauge HS Wave

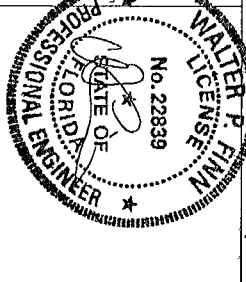
IMPORTANT\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Components Group Inc.) for safety information. Do not alter or modify the design without the written approval of the designer. The designer shall be responsible for the design of the truss system. The designer shall be responsible for the design of the truss system. The designer shall be responsible for the design of the truss system.

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Orlando FL 32837  
FL COA #0278

General notes page 118 BCS www.bcsinc.com TPI www.tpiinc.org WTC www.wtcinc.com  
100 www.tccs.com



|          |          |        |                    |
|----------|----------|--------|--------------------|
| TC LL    | 20 0 PSF | REF    | R9114- 69312       |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL    | 10.0 PSF | DRW    | HGUSR9114 14024189 |
| BC LL    | 0 0 PSF  | HC-ENG | JB/WPF             |
| TOT. LD  | 37.0 PSF | SEQN-  | 341471             |
| DUR FAC. | 1.25     | FROM   | JMM                |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE / -10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCPI (+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Right end vertical not exposed to wind pressure

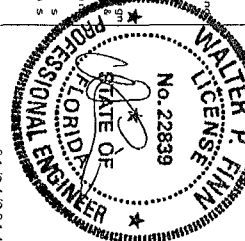
Deflection meets  $L/240$  live and  $L/180$  total load Creep increase factor for dead load is 1.50

factor for dead load is 1.50



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Orlando FL, 32837  
FL COA #0278

[illegible]

|           |          |        |                   |
|-----------|----------|--------|-------------------|
| TC LL     | 20 0 PSF | REF    | R9114- 69313      |
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | HCUS9114 14024190 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/MPF            |
| TOT. LD.  | 37 0 PSF | SEON-  | 346474            |
| DUR. FAC. | 1.25     | FROM   | JMW               |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02       |

Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B  
Webs 2x4 SP #3-13B  
Rt Stud Wedge 2x4 SP #3-13B

Lumber grades designated with 13B' use design values approved  
1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member

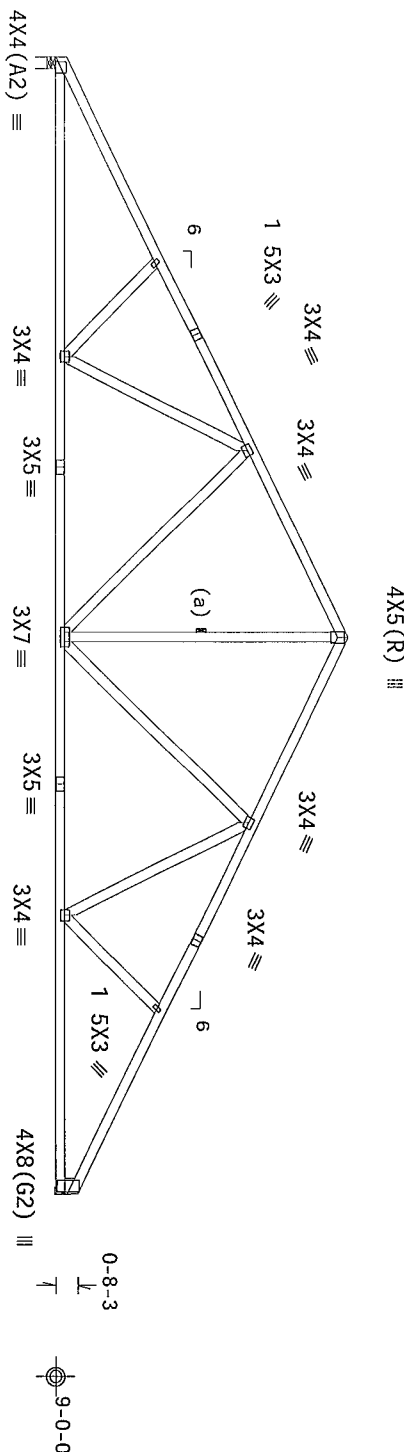
Bottom chord checked for 10 00 psf non-concurrent live load

MMFRS loads based on trusses located at least 7 50 ft from roof edge

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located  
within 9 00 ft from roof edge, RISK CAT 11, EXP C, wind TC DL=3 5 psf,  
wind BC DL=5 0 psf GCPI (+/-)=0 18  
Wind loads and reactions based on MMFRS with additional C&C member  
design

(H1) = (J) Special hanger required (2)2x6 SP M-26  
supporting member

Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1 50



16-11-12 33-3-8 Over 2 Supports 16-3-12

R=1265 U=204 W=4 (4 min)  
RL=186/-183

R=1254 U=203  
H=H1

PLT TYP Wave Design Crit FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

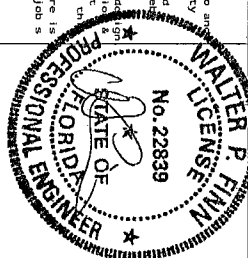
\*\*WARNING\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET!

Trusses require extreme care in fabricating and handling. All trusses shall be installed in accordance with the latest edition of the Building Code of America (BCA) and the International Building Code (IBC). The truss manufacturer shall be responsible for providing the truss with the necessary bracing and connections. The truss shall be installed in accordance with the manufacturer's instructions. The truss shall be installed in accordance with the manufacturer's instructions. The truss shall be installed in accordance with the manufacturer's instructions.

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Orlando FL 32837  
FL COA #0278



| TC LL     | 20.0 PSF | REF    | R9114 - 69314     |
|-----------|----------|--------|-------------------|
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | HCSR9114 14024191 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WPF            |
| TOT. LD.  | 37.0 PSF | SEQN-  | 341461            |
| DUR. FAC. | 1.25     | FROM   | JMM               |
| SPACING   | 24.0"    | JREF   | 1V3B487_Z02       |

01/24/2014

(14-005C--BRYAN ZECHEER /Jones/Goodson Residence -- Lake City, FL - H15 39 11 8 Steepdown Hip)

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B  
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member

Bottom chord checked for 10 00 psf non-concurrent live load

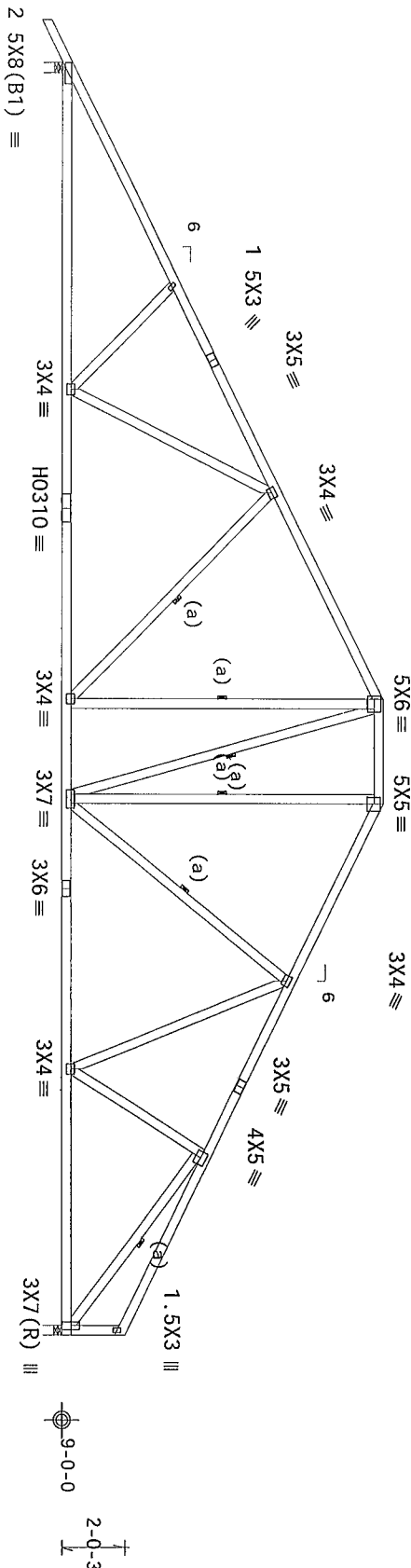
MMFRS loads based on trusses located at least 15 00 ft from roof edge

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCPI(+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Right end vertical not exposed to wind pressure

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



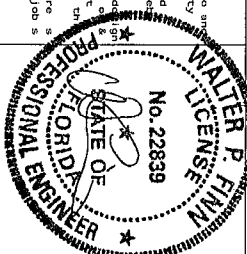
1-4-0  
20-0-0  
39-11-8 Over 2 Supports  
16-8-0  
R=1599 U=44 W=4 (4' min)  
RL=230/-222  
R=1504 U=30 W=3 5' (3 5" min)

PLT TYP 20 Gauge HS, Wave  
Design Crit FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

IMPORTANT\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, and bracing. Refer to and follow the latest edition of BCSI (Building Component Supply Information) by TPI and WTC for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.

TP1 Building Components Group Inc. (TP1BCG) shall not be responsible for any deviation from this design. Any failure to build the truss in conformance with ANSI/TP1 1 or for handling, shipping, installing, or bracing shall be the responsibility of the contractor. Refer to drawings 180A-Z for standard plate positions. A seal on the drawing or cover page listing this drawing indicates acceptance of professional engineering and the responsibility of the building designer per ANSI/TP1 1 Sec 2. For more information see the general notes page. TP1-BCG www.tbog.com TPI www.tpinet.org WTC www.sbcindustry.com 100 www.cesare.org



ALPINE  
TP1 Building Components Group Inc.  
Orlando FL 32837  
FL COA #0278

| QTY: 1        |          | 12.03.04 0926 13  |                   | QTY: 1 |  |
|---------------|----------|-------------------|-------------------|--------|--|
| FL/-5/-/-/R/- |          | Scale = .1875"/Ft |                   |        |  |
| TC LL         | 20 0 PSF | REF               | R9114 - 69315     |        |  |
| TC DL         | 7 0 PSF  | DATE              | 01/24/14          |        |  |
| BC DL         | 10 0 PSF | DRW               | H05R9114 14024192 |        |  |
| BC LL         | 0 0 PSF  | HC-ENG            | JB/WMP            |        |  |
| TOT.LD.       | 37 0 PSF | SEQN-             | 346480            |        |  |
| DUR.FAC.      | 1 25     | FROM              | JMM               |        |  |
| SPACING       | 24 0"    | JREF-             | 1V3B487_Z02       |        |  |

01/24/2014

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

(a) Continuous lateral restraint equally spaced on member  
Deflection meets  $L/240$  live and  $L/180$  total load Creep increase  
factor for dead load is 1.50

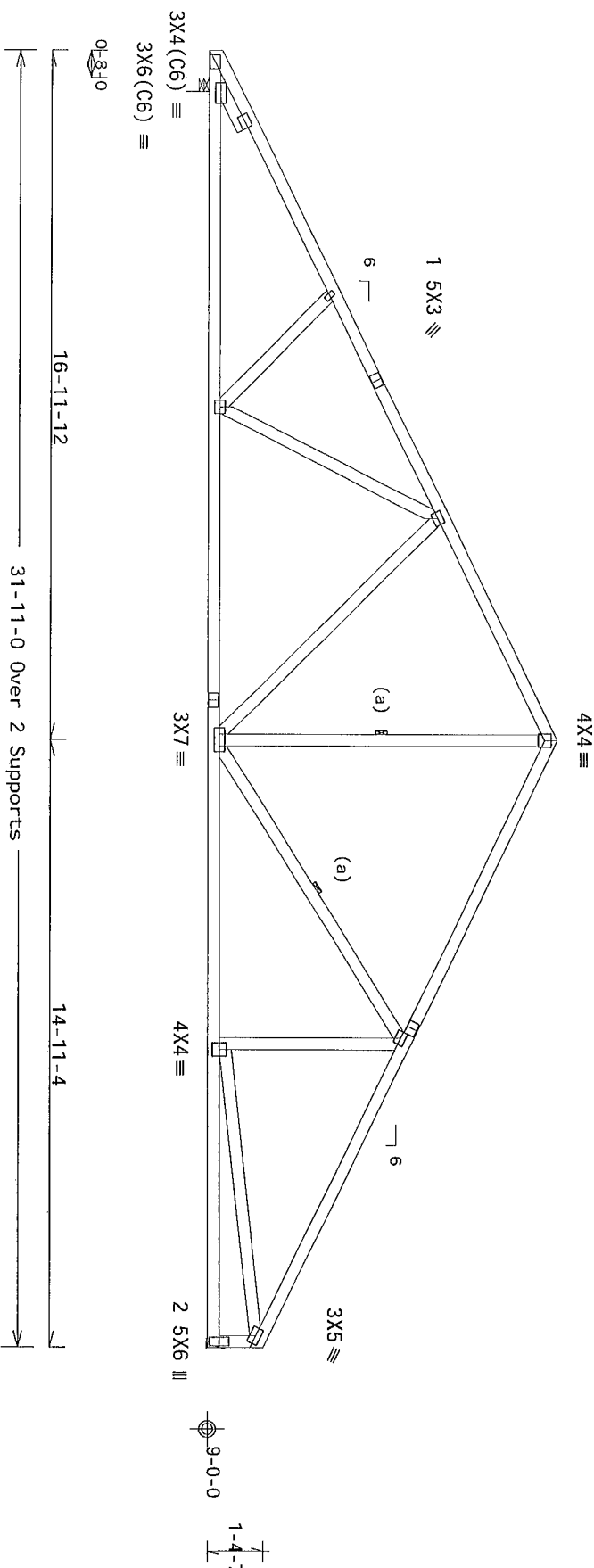
120 mph wind 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=3 5 psf wind BC DL=5 0 psf Gcpi (+/-)=0 18

Wind loads and reactions based on MMFRS with additional C&C member design

Left cantilever is exposed to wind

Bottom chord checked for 10 00 psf non-concurrent live load

MMFRS loads based on trusses located at least 15 00 ft from roof edge



R=1240 U=20 W=4' (4' min)  
RL=180/-170

R=1175 U=23  
H=H1

Note All Plates Are 3X4 Except As Shown

| Design Crit   | FBC2010Res/TP1-2007(Std)  |
|---|---|
| 1. The design must be functional and meet the requirements of the user. | 1. The design must be functional and meet the requirements of the user. |
| 2. The design must be aesthetically pleasing and visually appealing.    | 2. The design must be aesthetically pleasing and visually appealing.    |
| 3. The design must be cost-effective and within budget.                 | 3. The design must be cost-effective and within budget.                 |
| 4. The design must be sustainable and environmentally friendly.         | 4. The design must be sustainable and environmentally friendly.         |
| 5. The design must be safe and secure.                                  | 5. The design must be safe and secure.                                  |
| 6. The design must be innovative and creative.                          | 6. The design must be innovative and creative.                          |
| 7. The design must be practical and feasible.                           | 7. The design must be practical and feasible.                           |
| 8. The design must be scalable and adaptable.                           | 8. The design must be scalable and adaptable.                           |
| 9. The design must be user-friendly and intuitive.                      | 9. The design must be user-friendly and intuitive.                      |
| 10. The design must be reliable and durable.                            | 10. The design must be reliable and durable.                            |

PLT TYP Wave

$$FT/RT=20\%(0\%)/10(0)$$

12 03 04 05 06 07 08 09 10 11 12 13

QTY:1 FL/-/5/-/-/R/-

Scale = .25"/Ft.

ALPINE

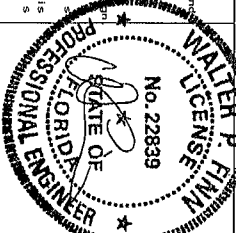
ITW Building Components Group Inc.

Orlando FL, 32837  
FL COA #0278

**\*\*IMPORTANT\*\* FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS**

Tenusers.com re-examine care in their cost handling, shipping, installing, and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety) Information on by TPI and WTCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Units need otherwise top shod shell have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Local area shown for permanent lateral restraint of web.

ITW Build Group has been notified via email (TSCS01) regarding this for any action from this design. If you are unable to build the truss in conformance with ANSI/TPI specifications, please notify us as soon as possible and on the Jointing of Trusses. Apply penalties to each phase of Truss and post it as shown above and on the Jointing Details unless noted otherwise. Refer to draw ngs 180A-2 for standard p's, t's, post's, a seal on th's drawing for color pages stating this drawing is not a class advertisement or professional engineering drawing. The responses by e-mail of the Build ng des gn per ANSI/TPI 1 Sec 2. For more information see general notes page ITW BCG www.tlwbng.com TPI www.tpi.net.org WTCA www.sbcindustry.com CCC www.cccare.org



|           |          |        |                    |
|-----------|----------|--------|--------------------|
| TC LL     | 20.0 PSF | REF    | R9114- 69316       |
| TC DL     | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL     | 10.0 PSF | DRW    | HCSUR9114 14024193 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WMPF            |
| TOT. LD.  | 37.0 PSF | SEQN-  | 346452             |
| DUR. FAC. | 1.25     | FROM   | JMMW               |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

Lumber grades designated with '13B' use design values approved 1/30/2013 by ALSC

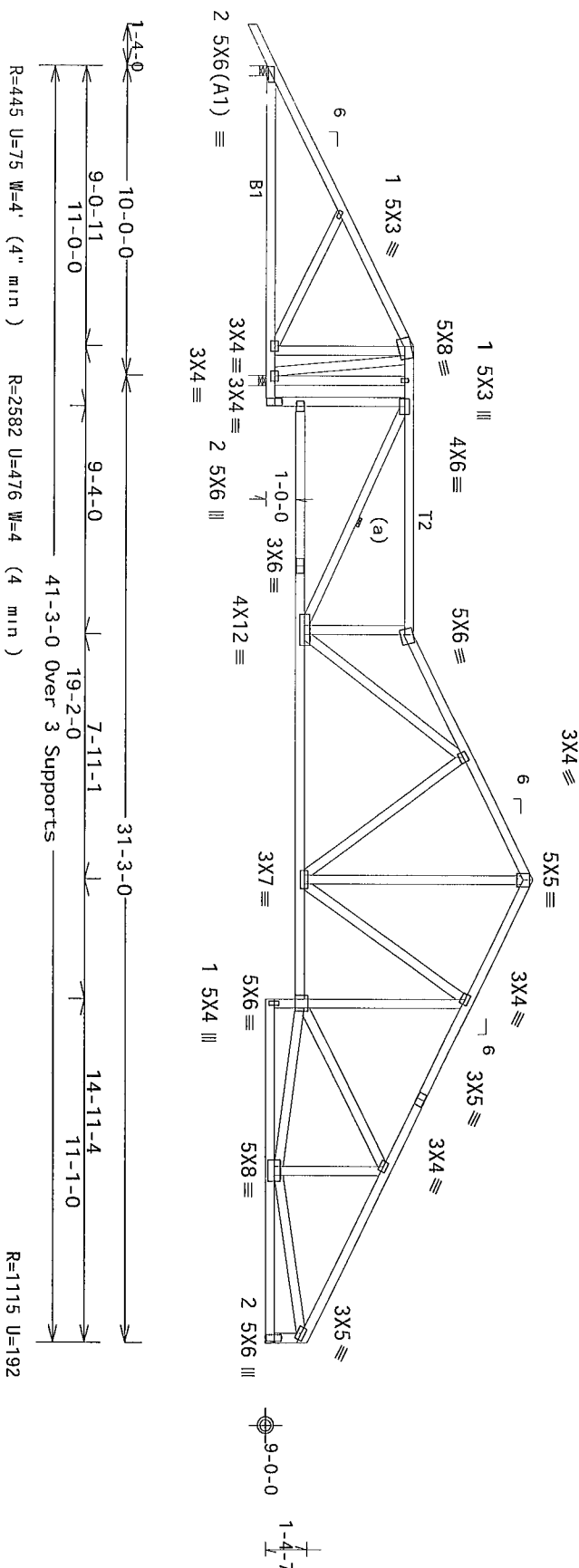
120 mph wind 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located  
anywhere in roof RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC  
DL=5 0 psf Gcpl(+/-)=0 18

Wind loads and reactions based on MWFRS

(a) Continuous lateral restraint equally spaced on member

Deflection meets  $L/240$  live and  $L/180$  total load Creep increase factor for dead load is 1.50

|   | Dur             | Fac = 1 | 25 /      | Plate     | Dur | Fac = 1 | 25) |
|---|-----------------|---------|-----------|-----------|-----|---------|-----|
| Special loads   |                 |         |           |           |     |         |     |
| -----Lumber   |                 |         |           |           |     |         |     |
| TC-From   | 56 pif at -1    | 33 to   | 56 pif at | 9         | 06  |         |     |
| TC-From   | 56 pif at       | 9       | 06 to     | 56 pif at | 18  | 39      |     |
| TC-From   | 56 pif at       | 18      | 39 to     | 56 pif at | 26  | 31      |     |
| TC-From   | 56 pif at       | 26      | 31 to     | 56 pif at | 41  | 25      |     |
| BC-From   | 4 pif at -1     | 33 to   | 4 pif at  | 0         | 00  |         |     |
| BC-From   | 20 pif at 0     | 00 to   | 20 pif at | 11        | 00  |         |     |
| BC-From   | 20 pif at       | 11      | 00 to     | 20 pif at | 30  | 17      |     |
| BC-From   | 20 pif at       | 30      | 17 to     | 20 pif at | 41  | 25      |     |
| TC-165 20   | lb Conc Load at | 9       | 12        |           |     |         |     |
| BC-664 13   | lb Conc Load at | 9       | 09        |           |     |         |     |
| Bottom chord checked for 10 00 psf non-concurrent live load |                 |         |           |           |     |         |     |



| PLT TYP | Wave |
|---------|------|
|---------|------|

| Design Crit | FBC2010Res/TP1-2007(STD)<br>FT/RT=20%(0%)/10(0) |
|-------------|---|
|             |   |

12.03.04 09:56:13

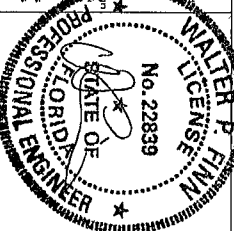
QTY:1 FL/-/5/-/-/R/-

Scale = .1875"/Ft.

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Orlando FL, 32837  
FL COA #0 278

[illegible]

~~01/24/2014~~

|           |          |        |                    |
|-----------|----------|--------|--------------------|
| TC LL     | 20.0 PSF | REF    | R9114- 69317       |
| TC DL     | 7.0 PSF  | DATE   | 01/24/14           |
| BC DL     | 10.0 PSF | DRW    | HCHSR9114 1402*198 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WPF             |
| TOT. LD.  | 37.0 PSF | SEQN-  | 346460             |
| DUR. FAC. | 1.25     | FROM   | JMMW               |
| SPACING   | 24.0"    | JREF-  | 1V3S487_Z02        |

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13 00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=3 5 psf, wind BC DL=5 0 psf GCPI(+/-)=0 18

(a) Continuous lateral restraint equally spaced on member

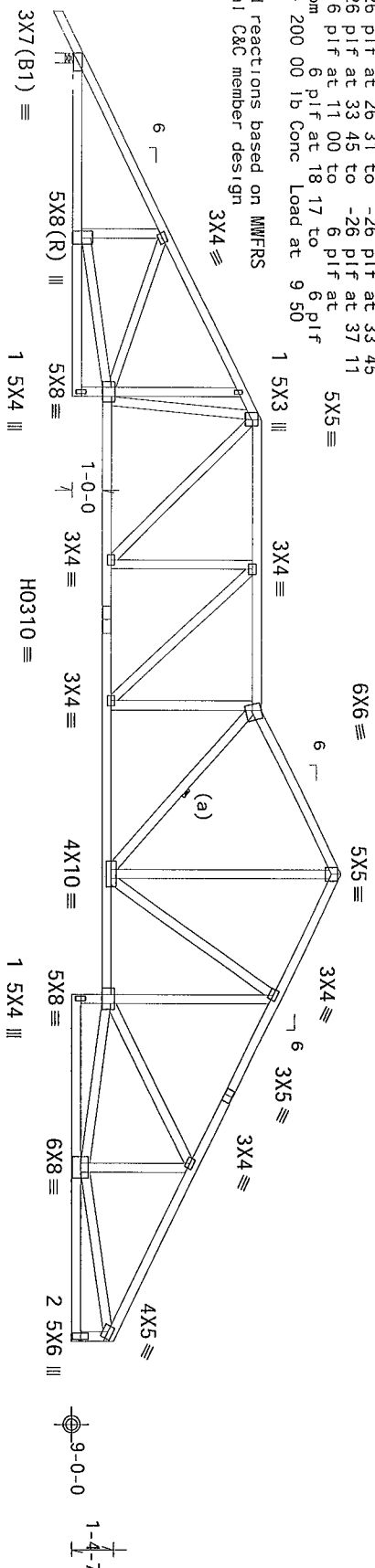
Bottom chord checked for 10 00 psf non-concurrent live load

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

MMFRS loads based on trusses located at least 15 00 ft from roof edge

MMFRS loads based on trusses located at least 15.00 ft from roof edge

3X4 ≡



R=1553 U=62  
H=H1

$$FT/RT=20\%(0\%)/10(0)$$

12.03.04

QTY:1 FL/-/5/-/-/R/-

Scale = 1875"/Ft.

**\*\*IMPORTANT\*\***  
**\*\*WARNING\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

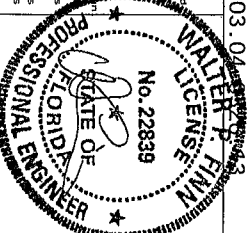
## ADP INFE

11W Building Components Group Inc  
Orlando FL, 32837  
FL COA #0278

Trustees require each contractor engaged in fabricating, erecting and bracing steelwork to follow the latest edition of BS5118 (Building Components Safety Information by TPI and WIDA) for safety practices prior to performing these functions. Installations shall provide temporary bracing per BS5118 unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly installed par BRG ceiling. Locations shown for permanent lateral restraint or web stiffeners shall have bracing attached per BRG section BS 67 or B10 as applicable.

TPI and WIDA Building Components Group Inc. (TIBCG) shall meet responsibilities for any design on form that may fall due to build the truss in conformance with AS/NZS/TPI 1 for top chord and installation of decking. Details unless noted otherwise. Refer to drawings 160-2 for standard plate positions. A seal on this drawing or cover page listing this drawing number catches acceptance of professional opinion and near responses likely solely for the design shown per AS/NZS/TPI 1 Sec 2. For more information see this job specification for the Building Designer. The sustainability of the building is a priority for this job.

General notes page TIBW-BGS www tibwbg.com TPI www tpinet.org WIDA www stc industry.com  
tci global notes page TIBW-BGS www tibwbg.com



|          |          |        |                   |
|----------|----------|--------|-------------------|
| TC LL    | 20.0 PSF | REF    | R9114- 69318      |
| TC DL    | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL    | 10.0 PSF | DRW    | H05R9114 14024199 |
| BC LL    | 0.0 PSF  | HC-ENG | JB/MPF            |
| TOT.LD.  | 37.0 PSF | SEQN-  | 346466            |
| DUR.FAC. | 1.25     | FROM   | JMW               |
| SPACING  | 24.0"    | JREF-  | 1V3B487_Z02       |

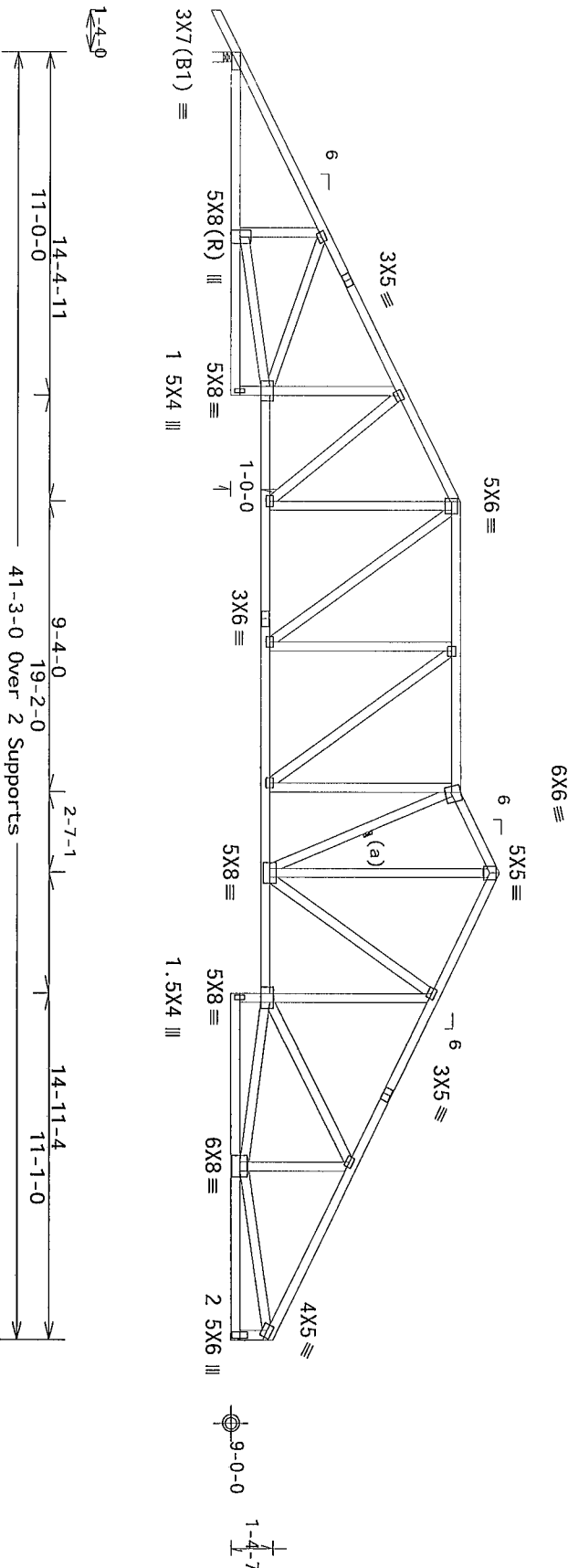
Top chord 2x4 SP #1-13B  
Bot chord 2x4 SP #1-13B  
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved  
1/30/2013 by ALSC

Wind loads and reactions based on MMFRS with additional C&C member  
design

120 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located  
within 13 00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=3 5  
psf, wind BC DL=5 0 psf 60psi(+/-)=0 18

(a) Continuous lateral restraint equally spaced on member  
Bottom chord checked for 10 00 psf non-concurrent live load  
Deflection meets L/240 live and L/180 total load Creep increase  
factor for dead load is 1 50  
MMFRS loads based on trusses located at least 15 00 ft from roof  
edge



R=1648 U=50 W=4" (4' min)  
RL=200/-199

R=1553 U=73  
H=H1

Note All Plates Are 3X4 Except As Shown

PLT TYP Wave

Design Crit FBC2010Res/TPI-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03.00

QTY: 1 FL/-/5/-/-/R/-

Scale = .1875"/Ft.

\*\*IMPORTANT\*\* READ AND FOLLOW ALL NOTES ON THIS SHEET  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

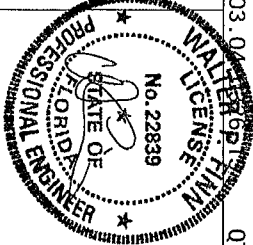
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information) on by TPI and WTC for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10 as applicable.

The Building Components Group Inc. (178603) shall not be responsible for any deviation from this design and the building code. Trusses are to be installed in accordance with the ASCE 7-10 or for handling and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information) on by TPI and WTC for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10 as applicable. Refer to drawings 180A-Z for standard plate positions. A seal on this drawing or cover page listing this design shall indicate acceptance of professional engineering near the responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ASCE/TPI 1 Sec 2. For more information on this Job see general notes page 178 BCS. www.tlweb.com TPI www.cpi.net.org WTC www.sdc industry.com

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ITW Building Components Group Inc.

Orlando FL 32837  
FL COA #0278



01/24/2014

| TC LL     | 20.0 PSF | REF    | R9114- 69319      |
|-----------|----------|--------|-------------------|
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | HCSR9114 14024200 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WPF            |
| TOT. LD.  | 37.0 PSF | SEQN-  | 346470            |
| DUR. FAC. | 1.25     | FROM   | JMM               |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02       |



Top chord 2x4 SP #1-13B T5 2x4 SP M-30  
Bot chord 2x4 SP #1-13B W2, W13, W16 2x4 SP #2-13B  
Webs 2x4 SP #3-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Special loads

-----Lumber Dur Fac =1.25 / Plate Dur Fac =1.25)  
TC- From 56 pif at -1.33 to 56 pif at 17.06  
TC- From 55 pif at 17.06 to 55 pif at 26.24  
TC- From 56 pif at 26.24 to 56 pif at 36.40  
TC- From 55 pif at 36.40 to 55 pif at 43.58  
BC- From 4 pif at -1.33 to 4 pif at 0.00  
BC- From 20 pif at 0.00 to 20 pif at 11.00  
BC- From 20 pif at 11.00 to 20 pif at 30.17  
BC- From 20 pif at 30.17 to 20 pif at 43.58  
BC- 200 00 lb Conc Load at 9.50

Wind loads and reactions based on MMFRS

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT II, EXP C, wind DL=3.5 psf, wind BC DL=5.0 psf GCPI(+/-)=0.18

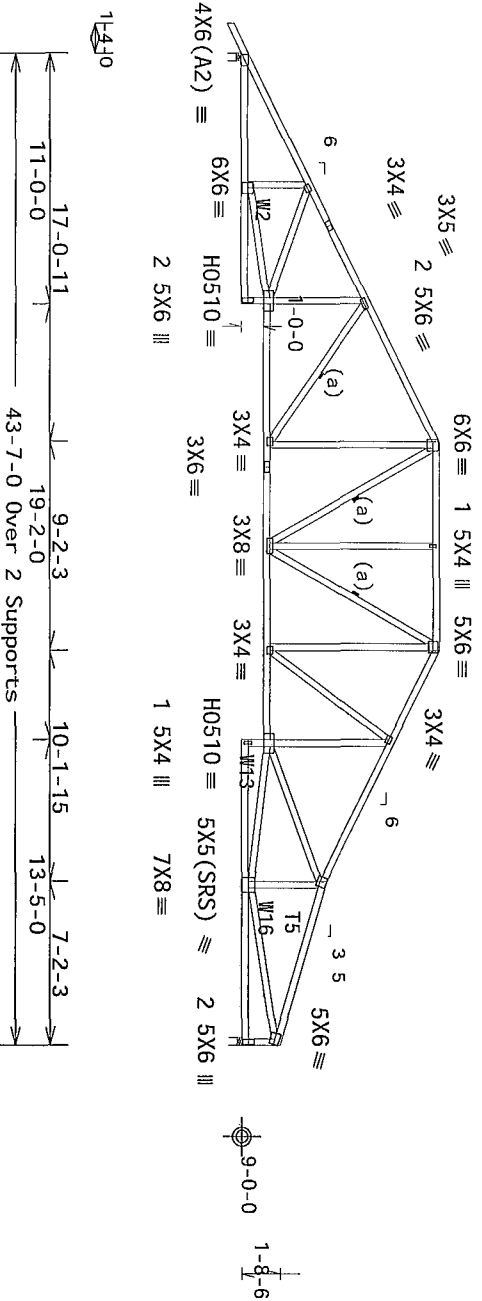
Calculated horizontal deflection is 0.11" due to live load and 0.15" due to dead load

(a) Continuous lateral restraint equally spaced on member

Bottom chord checked for 10.00 psf non-concurrent live load

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

MMFRS loads based on trusses located at least 15.00 ft from roof edge



R=1887 U=54 W=4" (4 min)  
RL=195/-192

R=1673 U=38 W=4" (4" min)

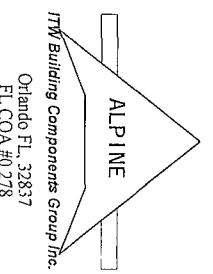
PLT TYP 20 Gauge HS, Wave

Design Crit FBC2010Res/TP1-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03.04 08:26:13

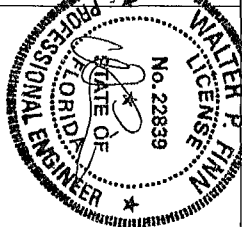
QTY:1 FL/-/5/-/-/R/-

Scale = .125"/Ft.



Orlando FL 32837  
FL COA #0278

**\*\*IMPORTANT\*\*** READ AND FOLLOW ALL NOTES ON THIS SHEET!  
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.  
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The Building Components Group Inc. (TPI/BCSI) shall not be responsible for any deviation from this design and shall not be responsible for any damage to property or persons resulting from the use of this design. A seal on the drawing or cover page listing this drawing indicates acceptance of professional engineering and the responsibility of the Building Designer per ASCE/TP1 Sec 2. For more information see this job's general notes page 11B-500 www.bcsinfo.com www.wtcinfo.com

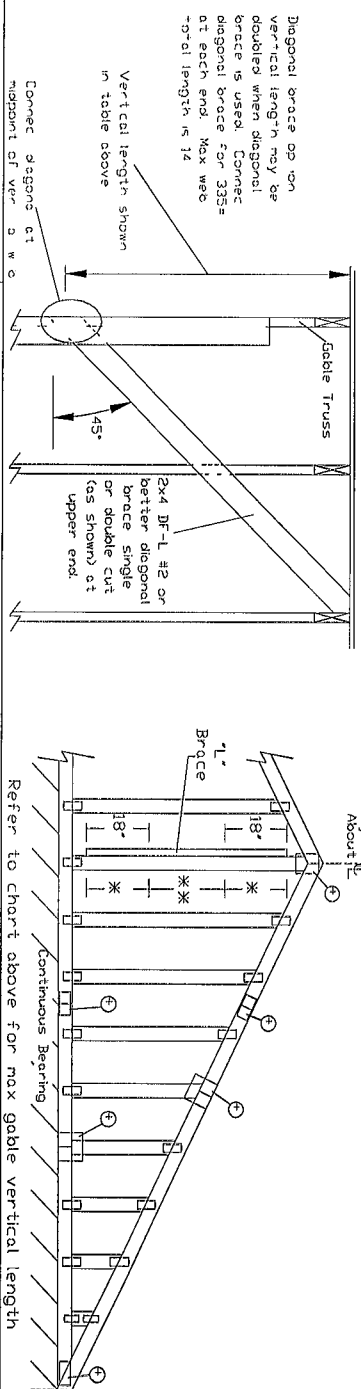


| TC LL     | 20.0 PSF | REF    | R9114- 69320      |
|-----------|----------|--------|-------------------|
| TC DL     | 7.0 PSF  | DATE   | 01/24/14          |
| BC DL     | 10.0 PSF | DRW    | H05R9114 14024201 |
| BC LL     | 0.0 PSF  | HC-ENG | JB/WMP            |
| TOT. LD.  | 37.0 PSF | SEQN-  | 340787            |
| DUR. FAC. | 1.25     | FROM   | JMW               |
| SPACING   | 24.0"    | JREF-  | 1V3B487_Z02       |

# Gable Stud Reinforcement Detail

ASCE 7-10 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 100  
 Or 100 mph Wind Speed 15 Mean Height, Enclosed Exposure D Kzt = 100

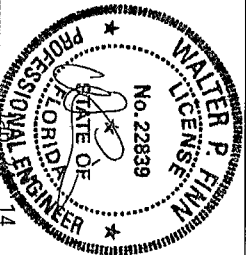
| Gable Vertical Species and Grades | Brace No | Brace Size       |         |         |                  |         |         |                  |         |         |                  |
|-----------------------------------|----------|------------------|---------|---------|------------------|---------|---------|------------------|---------|---------|------------------|
|                                   |          | (1) 1x4 L' Brace | Group A | Group B | (2) 2x4 L' Brace | Group A | Group B | (1) 2x6 L' Brace | Group A | Group B | (2) 2x6 L' Brace |
| 24" oc                            | SP-1     | 4 10"            | 8 2"    | 8 5"    | 9 8"             | 10 1"   | 11 6"   | 12 0"            | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-2     | 4 7"             | 7 9"    | 8 3"    | 9 7"             | 9 11"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-3     | 4 7"             | 8 1"    | 8 3"    | 9 7"             | 9 11"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-4     | 4 7"             | 8 1"    | 8 3"    | 9 7"             | 9 11"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-5     | 4 7"             | 8 1"    | 8 3"    | 9 7"             | 9 11"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-6     | 4 7"             | 8 1"    | 8 3"    | 9 7"             | 9 11"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-7     | 4 7"             | 8 1"    | 8 3"    | 9 7"             | 9 11"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-8     | 4 7"             | 8 1"    | 8 3"    | 9 7"             | 9 11"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-9     | 4 7"             | 8 1"    | 8 3"    | 9 7"             | 9 11"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-10    | 4 7"             | 8 1"    | 8 3"    | 9 7"             | 9 11"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
| 16" oc                            | SP-11    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-12    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-13    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-14    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-15    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-16    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-17    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-18    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-19    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-20    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
| 12" oc                            | SP-21    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-22    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-23    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-24    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-25    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-26    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-27    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-28    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-29    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |
|                                   | SP-30    | 4 7"             | 6 11"   | 7 4"    | 9 3"             | 9 10"   | 11 5"   | 11 10"           | 14 0"   | 14 0"   | 14 0"            |



| Bracing Group Species and Grades |             |                  |             |
|----------------------------------|-------------|------------------|-------------|
| Group A                          |             | Group B          |             |
| Service Pine-Fir                 | Heir-Fir    | Service Pine-Fir | Heir-Fir    |
| #1 / #2 Standard                 | #2 Standard | #1 / #2 Standard | #2 Standard |
| #3 Stud                          | #3 Stud     | #3 Stud          | #3 Stud     |
| Douglas Fir-Larch                |             | Southern Pine    |             |
| #3 Standard                      | #3 Standard | #3 Standard      | #3 Standard |
| Group B                          |             | Group A          |             |
| Heir-Fir                         | Heir-Fir    | Heir-Fir         | Heir-Fir    |
| #1 & 2x                          | #1 & 2x     | #1 & 2x          | #1 & 2x     |
| Douglas Fir-Larch                |             | Southern Pine    |             |
| #1 Standard                      | #1 Standard | #1 Standard      | #1 Standard |

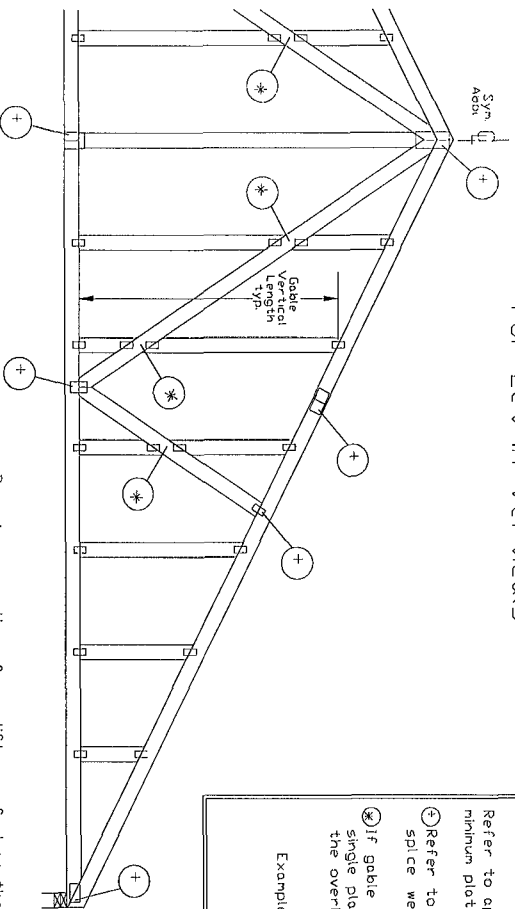


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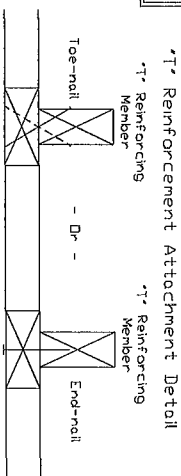
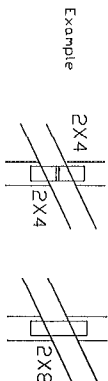
| MAX TDT LD 60 PSF |                   |
|-------------------|-------------------|
| MAX SPACING 24 0" |                   |
| REF               | ASCE7-10-GAB12015 |
| DATE              | 2/14/12           |
| DRWG              | A12015ENC100212   |

# Gable Detail For Let-in Verticals



## Gable Truss Plate Sizes

- Refer to appropriate ITV gable detail for minimum plate sizes for vertical studs
- Refer to Engineered truss design for peak splice web and heel plates
- If gable vertical plates overlap use a single plate that covers the total area of the overlapped plates to span the web.

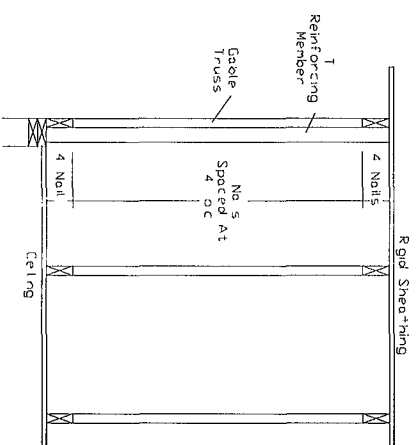


To convert from 1" to "T" reinforcing members, multiply "T" increase by length (based on appropriate ITV gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.  
"T" reinforcing member material must match size, grade, and grade of the 1" reinforcing member.

| "T" Reinf Mbr Size | "T" Increase |
|--------------------|--------------|
| 2x4                | 30 %         |
| 2x6                | 20 %         |

Example  
ASCE 7-10 Wind Speed = 120 mph  
Mean Roof Height = 30 ft Kzt = 1.00  
Gable Vertical = 24" o.c SP #3  
"T" Reinforcing Member Size = 2x4  
"T" Brace Increase (from Above) = 30% = 1.30  
Maximum "T" Brace Length = 8' 7"  
Maximum "T" Reinforced Gable Vertical Length 130 x 8' 7" = 11 2'



This detail to be used with the appropriate ITV gable detail for ASCE wind load

- ASCE 7-98 Gable Detail Drawings  
A13015980109, A12015980109, A10015980109  
A13030980109, A12030980109, A10030980109
- ASCE 7-10 Gable Detail Drawings  
A13015020109, A12015020109, A10015020109, A14015020109, A13030020109, A12030020109, A10030020109, A14030020109
- ASCE 7-05 Gable Detail Drawings  
A13015050109, A12015050109, A10015050109, A14015050109, A13030050109, A12030050109, A10030050109, A14030050109
- ASCE 7-10 Gable Detail Drawings  
A11515ENC100212, A12015ENC100212, A14015ENC100212, A16015ENC100212, A118015ENC100212, A20015ENC100212, A20015PEDI00212, A11533ENC100212, A12033ENC100212, A14033ENC100212, A16033ENC100212, A118033ENC100212, A20033ENC100212, A20033PEDI00212

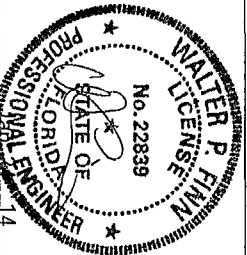
See appropriate ITV gable detail for maximum unreinforced gable vertical length.

\*\*\*IMPORTANT\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING. \*\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.



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|             |              |
|-------------|--------------|
| REF         | LET-IN VERT  |
| DATE        | 2/16/12      |
| DRWG        | GBLLETIN0212 |
| MAX TOT LD  | 60 PSF       |
| DUR FAC     | ANY          |
| MAX SPACING | 24 0"        |

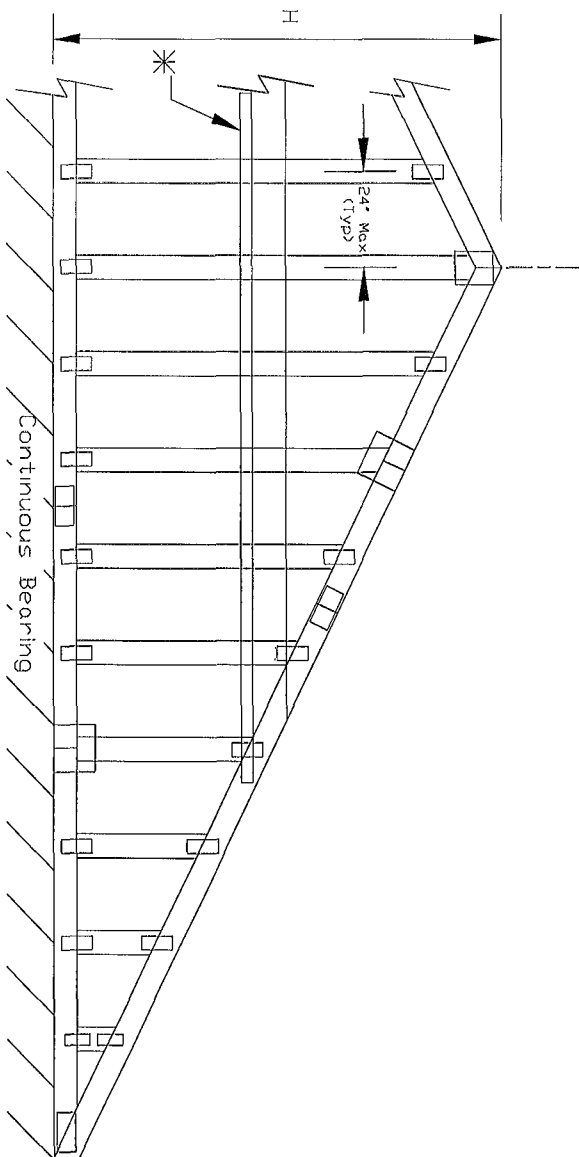
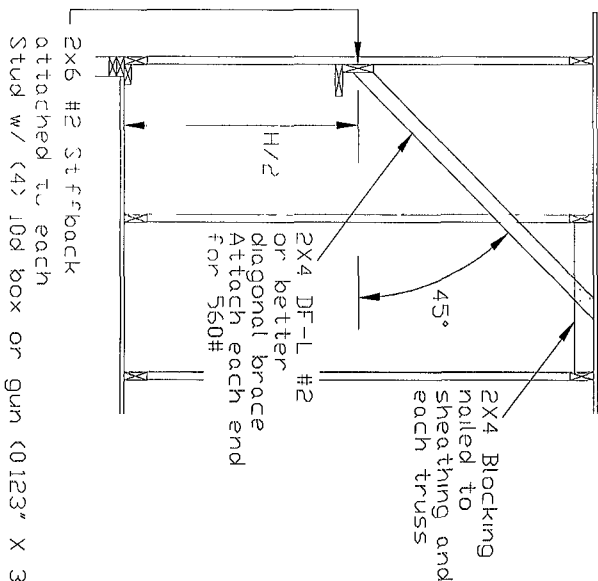
01/24/2014

120 mph, 30 ft W an Hgt, ASCE 7-10, Enclosed, Exp C or  
 100 mph, 30 ft W an Hgt, ASCE 7-10, Enclosed, Exp D or  
 100 mph, 30 ft W an Hgt, ASCE 7-10, Part Enclosed Exp C  
 Kzt = 0.6 W an TC DL=50 psf, Wind BC DL 50 psf

Lateral chora bracing requirements  
Top Continuous roof sheathing  
Bot Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for washer plates and other information not shown on this detail

Nails 10d box or gun (0.128"x3",min) nails



Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC100212)

H Greater than 7'6" to 12'0" max  
provide a 2x6 stiffback at mid-height and brace  
to roof diaphragm every 4'0" (see detail below or  
refer to DWG A12030ENC100212)

\*Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0128" x 3", min) nails @ 6" o c

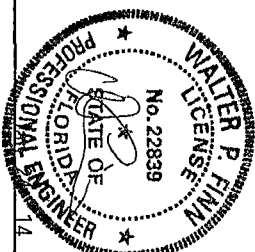
Stud w/ (4) 10d box or gun (0.123" X 3", min) nails

\*\*\*WARNING\*\*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING  
 \*\*\*IMPORTANT\*\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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[illegible][illegible]

MAX TOT LD 60 PSF

MAX SPACING

REF GE WHALER

DATE 2/14/12

DRWG GABRST100212

# CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a +uss design but an alternative web reinforcement method is desired

## Notes

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforcement or scab reinforcement

Alternative reinforcement specified in chart below may be conservative for minimum alternative reinforcement, re-run design with appropriate reinforcement type

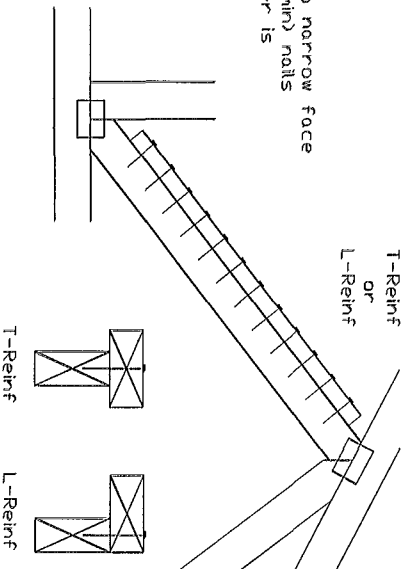
| Web Member Size | Specified CLR Restraint | Alternative Reinforcement T- or L- Reinf | Scab Reinf |
|-----------------|-------------------------|--|------------|
| 2x3 or 2x4      | 1 row                   | 2x4                                      | 1-2x4      |
| 2x3 or 2x4      | 2 rows                  | 2x6                                      | 2-2x4      |
| 2x5             | 1 row                   | 2x4                                      | 1-2x6      |
| 2x5             | 2 rows                  | 2x6                                      | 2-2x4(*)   |
| 2x8             | 1 row                   | 2x6                                      | 1-2x8      |
| 2x8             | 2 rows                  | 2x6                                      | 2-2x6(*)   |

1 reinforcement 1 reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(\*) Center scab on wide face of web Apply (1) scab to each face of web

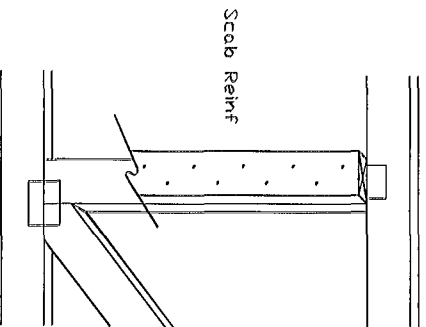
T-Reinforcement  
or  
L-Reinforcement

Apply to either side of web narrow face Attach with 10d (0.128"x3.0",min) nails at 6" oc Reinforcing member is a minimum 80% of web member length



## Scab Reinforcement.

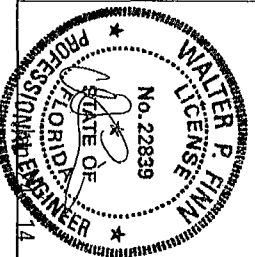
Apply scab(s) to wide face of web. No more than (1) scab per face Attach with 10d (0.128"x3.0",min) nails at 6" oc Reinforcing member is a minimum 80% of web member length



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|         |     |      |              |
|---------|-----|------|--------------|
| TC LL   | PSF | REF  | CLR Subst    |
| TC DL   | PSF | DATE | 8/15/13      |
| BC DL   | PSF | DRWG | BRCLBSUB0813 |
| BC LL   | PSF |      |              |
| TDI LD  | PSF |      |              |
| DUR FAC |     |      |              |
| SPACING |     |      |              |

01/24/2014