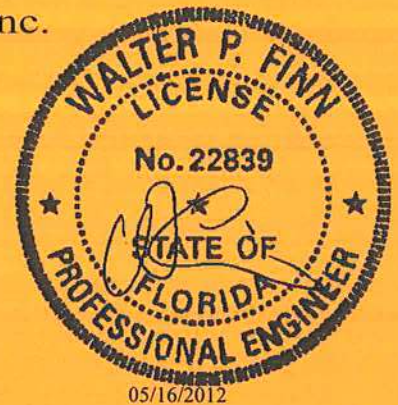


ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: IUM4487-Z0316072512



Truss Fabricator: Anderson Truss Company
Job Identification: 12-089--BRYAN ZECHER Garrison Res. -- , **
Truss Count: 64
Model Code: Florida Building Code
Truss Criteria: FBC2010Res/TPI-2007(STD)
Engineering Software: Alpine Software, Version 10.03.
Structural Engineer of Record: The identity of the structural EOR did not exist as of the seal date per section 61G15-31.003(5a) of the FAC
Address:
Minimum Design Loads: Roof - 40.0 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: HCUSR487

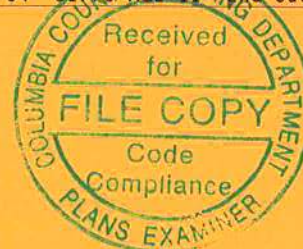
Walter P. Finn
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-CNNAILSP-

#	Ref	Description	Drawing#	Date
1	81712--A	44'4" Flat	12137001	05/16/12
2	81713-A1	37'2"8 Common	12137002	05/16/12
3	81714-AT1	37'2"8 Commo	12137003	05/16/12
4	81715-H13A	44'4" Stepd	12137004	05/16/12
5	81716-H15A	37'2"8 Comm	12137005	05/16/12
6	81717--H21A	44'4" Flat	12137006	05/16/12
7	81718-F7A	33'2" Flat G	12137042	05/16/12
8	81719-HS11A	36'2" Flat	12137007	05/16/12
9	81720-HS13A	36'2" Flat	12137008	05/16/12
10	81721-HS15A	36'2" Flat	12137009	05/16/12
11	81722-HS17A	36'2" Flat	12137010	05/16/12
12	81723-HS19A	36'2" Flat	12137011	05/16/12
13	81724--HS9A	33'2" Flat	12137012	05/16/12
14	81725-AT	32'4"8 Common	12137013	05/16/12
15	81726-H11AT	44'4" Step	12137043	05/16/12
16	81727-H7AT	38'2"8 Step	12137044	05/16/12
17	81728-H9AT	38'2"8 Step	12137014	05/16/12
18	81729-HT17A	37'2"8 Com	12137015	05/16/12
19	81730-HT19A	37'2"8 Com	12137016	05/16/12
20	81731-HT21A	37'2"8 Com	12137017	05/16/12
21	81732--B	21'8" Common	12137018	05/16/12
22	81733--B1	21'8" Common	12137019	05/16/12
23	81734-BS	10'9"4 Common	12137020	05/16/12
24	81735-H7B	21'8" Common	12137045	05/16/12
25	81736-H7B1	21'8" Stepd	12137046	05/16/12
26	81737-H9B	21'8" Common	12137021	05/16/12
27	81738-H9B1	21'8" Stepd	12137022	05/16/12
28	81739--C	17'2" Common	12137023	05/16/12
29	81740-CG	17'2" Common	12137047	05/16/12
30	81741-H7C	17'2" Stepdo	12137048	05/16/12
31	81742--D	10'8" Common	12137024	05/16/12
32	81743-H5D	10'8" Stepdo	12137049	05/16/12
33	81744--E	9'9" Common	12137025	05/16/12
34	81745-H3E	9'9" Stepdow	12137050	05/16/12
35	81746-F5H	17'2" Flat G	12137051	05/16/12
36	81747-F7H	17'2" Flat G	12137052	05/16/12

#	Ref	Description	Drawing#	Date
37	81748-H5G	10'11" Stepd	12137063	05/16/12
38	81749--CJ1	1' Jack	12137026	05/16/12
39	81750--CJ1	1' Jack	12137027	05/16/12
40	81751--CJ1S	1' Jack	12137028	05/16/12
41	81752--CJ3	3' Jack	12137029	05/16/12
42	81753--CJ31	3' Jack	12137030	05/16/12
43	81754--CJ3B	3' Jack	12137031	05/16/12
44	81755--CJ3S	3' Jack	12137032	05/16/12
45	81756--CJ3S1	3' Jack	12137033	05/16/12
46	81757--CJ3T	3' Jack	12137062	05/16/12
47	81758--CJ5	5' Jack	12137034	05/16/12
48	81759--CJ5B	5' Jack	12137035	05/16/12
49	81760--CJ5T	5' Jack	12137036	05/16/12
50	81761-EJ11B	7' Common	12137053	05/16/12
51	81762-EJ5S	5' End Jack	12137037	05/16/12
52	81763--EJ7	7' End Jack	12137038	05/16/12
53	81764-EJ7B	7' End Jack	12137039	05/16/12
54	81765-EJ7G	7' Common G	12137054	05/16/12
55	81766-EJ7T	7' End Jack	12137040	05/16/12
56	81767-EJ9B	7' End Jack	12137041	05/16/12
57	81768-HJ3	4'2"15 Hip J	12137055	05/16/12
58	81769-HJ3	4'2"15 Hip J	12137056	05/16/12
59	81770-HJ5	7'0"14 Hip J	12137057	05/16/12
60	81771-HJ5S	7'0"14 Hip	12137058	05/16/12
61	81772-HJ7	9'10"13 Hip	12137064	05/16/12
62	81773-HJ7T	9'10"13 Hip	12137059	05/16/12
63	81774-MG1	6' Mono Gird	12137060	05/16/12
64	81775-MG2	15' End Jack	12137061	05/16/12



(12-089--BRYAN ZECHER Garrison Res. --, ** - A 44'4" Flat)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

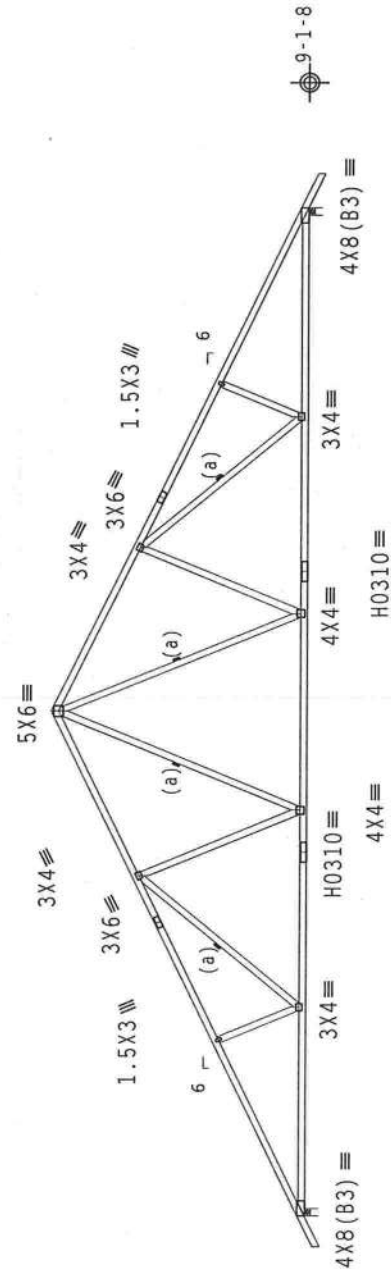
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

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

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

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



1L4-0
22-2-0
44-4-0 Over 2 Supports
22-2-0
1L6-0

R=2189 U=0 W=4"
RL=292/-291

PLT TYP. 20 Gauge HS.Wave

Design Crit: FBC2010Res/TPI-2007 (STD
FI/RT=20%(0)/0(0))

FL/-4/-/-R/- Scale =.125"/Ft.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. It is the responsibility of the contractor to follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall be properly braced and bracing shall have a properly attached structural sheathing and bottom chord bracing shall have bracing installed per BCSI sections B3.87 or B3.9, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in accordance with the design. The contractor shall be responsible for the bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on this drawing or cover page listing this drawing. Indicates acceptance of professional engineering 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. ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.socindustry.com; ICC: www.iccsafe.org

WALTER P. FINN
LICENSE
No. 22839
FLORIDA
PROFESSIONAL ENGINEER
05/16/2012

TC LL	20.0 PSF	REF	R487--	81712
TC DL	10.0 PSF	DATE	05/16/12	
BC DL	10.0 PSF	DRW	HCUSR487	12137001
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	40.0 PSF	SEQN	95450	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1UM487_Z03	

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

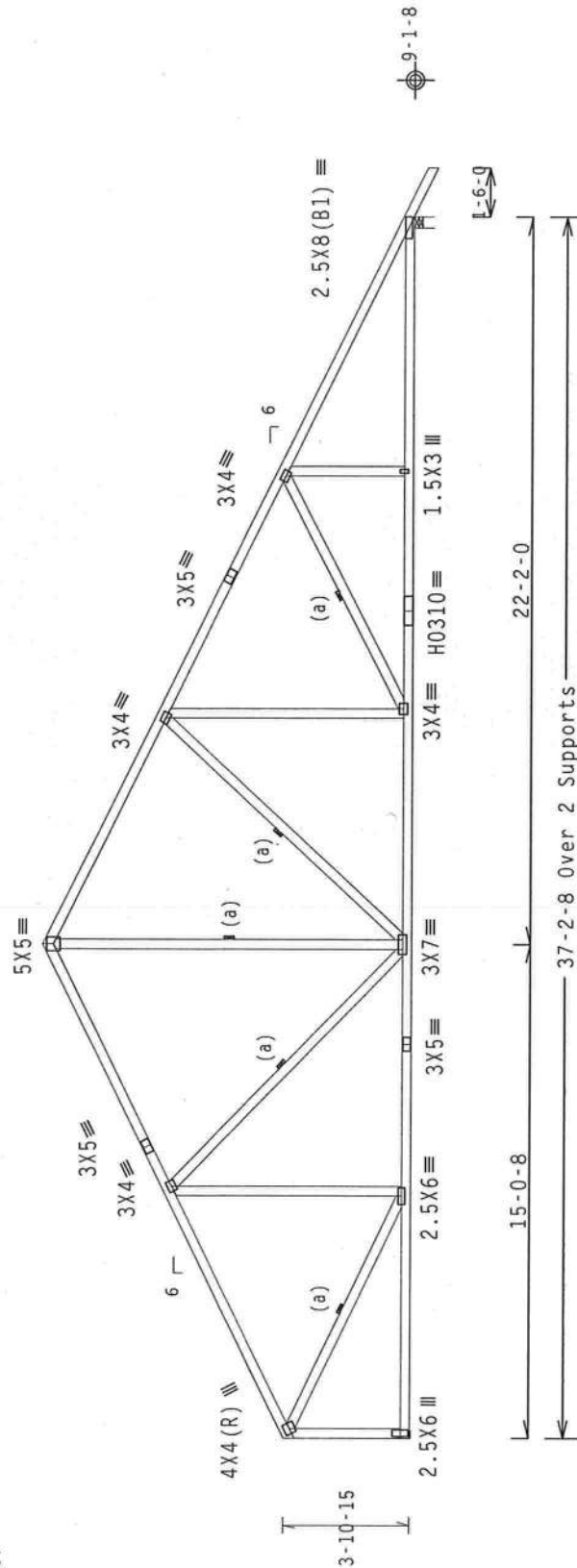
Wind loads and reactions based on MWFRS with additional C&C member design.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

(a) Continuous lateral bracing equally spaced on member.

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



and responsibility of the building designer per ANSI/ISO 15922. For more information see: www.sbcindustry.com; general notes page: ITW-8CG: www.itwbcg.com; TPI: www.tpinst.org; WTCA: www.wtca.org; This job is



FL/-/4/-/-/R/-		Scale = .1875"/Ft.
TC LL	20.0 PSF	REF R487-- 81713
TC DL	10.0 PSF	DATE 05/16/12
BC DL	10.0 PSF	DRW HCUSR487 12137002
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT.LD.	40.0 PSF	SEQN- 96047
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1UM4487_Z03

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=5.0 psf, wind BC DL=5.0 psf, GCPI (+/-)=0.18

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

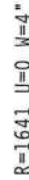
design.

Calculated horizontal deflection is 0.12" due to live load and 0.18" due to dead load.

These support conditions used at bearings indicated
(H1) = Simpson HUS26 w/ (1)2x6 SP M-26 supporting member.
(14) 0.148"x3" nails into supporting member.
(4) 0.148"x3" nails into supported member.

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.



Scale = 1875"/ft

Scale = .1073 / Ft.

REF R487 - 81/14
DATE 05/16/12
ORW HCUSR487 12137003

HC-ENG JB/WPF
SEQN- 95960
REF- 11M4487 703

05/16/2012

REF- 1UM4487 703

(12-089--BRYAN ZECHER Garrison Res. --, ** - H13A 44'4" Stepped Hip)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

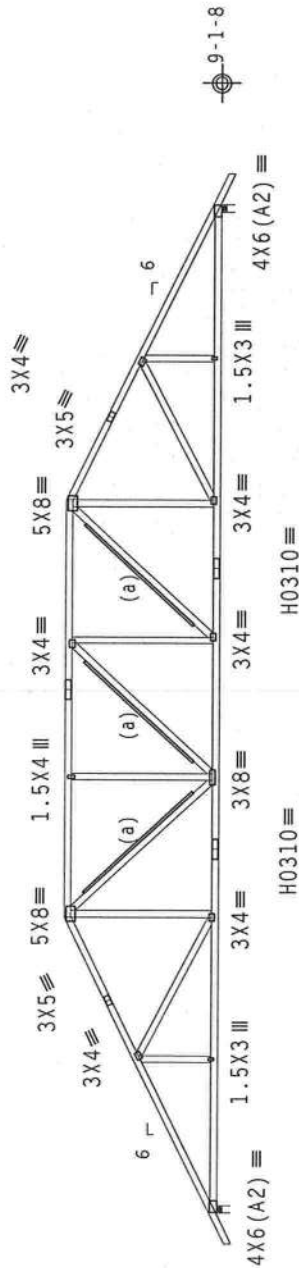
Roof overhang supports 2.00 psf soffit load.

(a) 1x4 #3SRB SPF-S or better "T" brace. 80% length of web member.
Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

H0310 =



1x4-10

13'-0-0 18'-4-0 13'-0-0
44'-4-0 Over 2 Supports
R=1915 U=226 W=4"
RL=182/-182

PLT TYP. 20 Gauge HS.Wave

Design Crit: FBC2010Res/TPI-2007 (STC)
FT/RT=20% (0%)/0 (0)

Scale = .125"/Ft.

TC LL	20.0 PSF	REF	R487--	81715
TC DL	10.0 PSF	DATE	05/16/12	
BC DL	10.0 PSF	DRW	HCUSR487	12137004
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	40.0 PSF	SEQN	95808	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1UM4487_Z03	

10.03.11.0209.20
No. 22839
WALTER P. FINN
LICENSE
No. 22839
STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/16/2012

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. The latest edition of BCSI (Building Component Safety Information, by TPI and MTCA) shall be used for all details. Trusses shall be braced in accordance with BCSI. Unless noted otherwise, top chord shall have properly attached struts. Trusses shall have bracing installed per BCSI sections 82, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal shall be placed on the drawing. This drawing indicates acceptance of professional engineering and the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information visit: www.itwbcg.com; TPI: www.tpiint.org; MTCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Left end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

These support conditions used at bearings indicated
(H1) = Simpson HUS26 w/ (1)2x6 SP M-26 supporting member.
(14) 0.148"x3" nails into supporting member.
(4) 0.148"x3" nails into supported member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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=5.0 psf, wind BC DL=5.0 psf, GCpf (+/-)=0.18

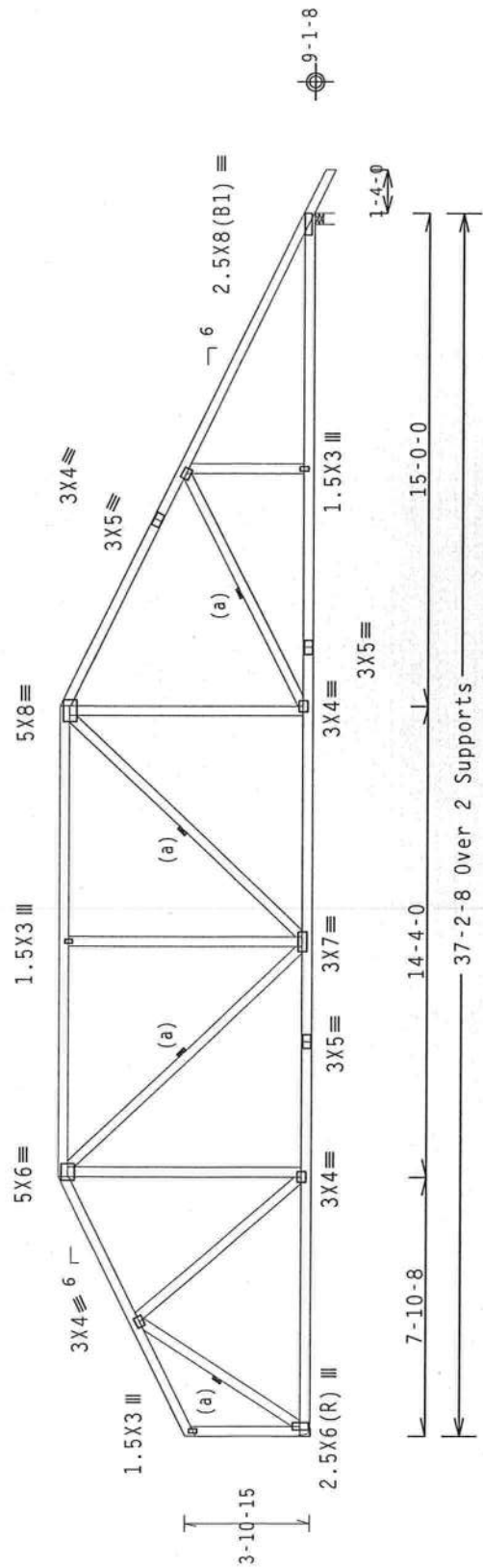
Wind loads and reactions based on MWFRS with additional C&C member design.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

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



R=1524 U=17
RL=131/-158 H=Simpson HUS26
Supported Member Face: (4) 0.148"x3" nails
Supporting Member Face: (14) 0.148"x3" nails
Supporting Member : (1) 2x6 SP #2

R=1629 U=37 W=4"

PLT TYP. Wave

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

Scale = .1875"/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. The latest edition of BCSI (Building Component Safety Information, by TPI and WCA) is to be followed. Trusses shall be installed in accordance with the BCSI and TPI specifications. Unless noted otherwise, top chord shall have properly attached structural sheathing and bracing. Locations shown for permanent lateral restraint. Trusses shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the BCSI or TPI specifications. Apply plates to each face of truss and position as shown above and on the Job. Details, unless noted otherwise, refer to drawings 160A-2 for standard plate positions. A seal on the bottom chord of the truss shall be provided. The responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information on the general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpi.net; WCA: www.wcaindustry.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

TC LL	20.0 PSF	FL/-/4/-/-R/-	Scale = .1875"/Ft.
TC DL	10.0 PSF	REF R487-- 81716	
BC DL	10.0 PSF	DATE 05/16/12	
BC LL	0.0 PSF	DRW HCUSR487 12137005	
TOT.LD.	40.0 PSF	HC-ENG JB/WPF	
DUR.FAC.	1.25	SEQN- 95816	
SPACING	24.0"	JREF- 1UM4487_Z03	

(12-089--BRYAN ZECHER Garrison Res. --, ** - H21A 44'4" Flat)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

(a) Continuous lateral bracing 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.

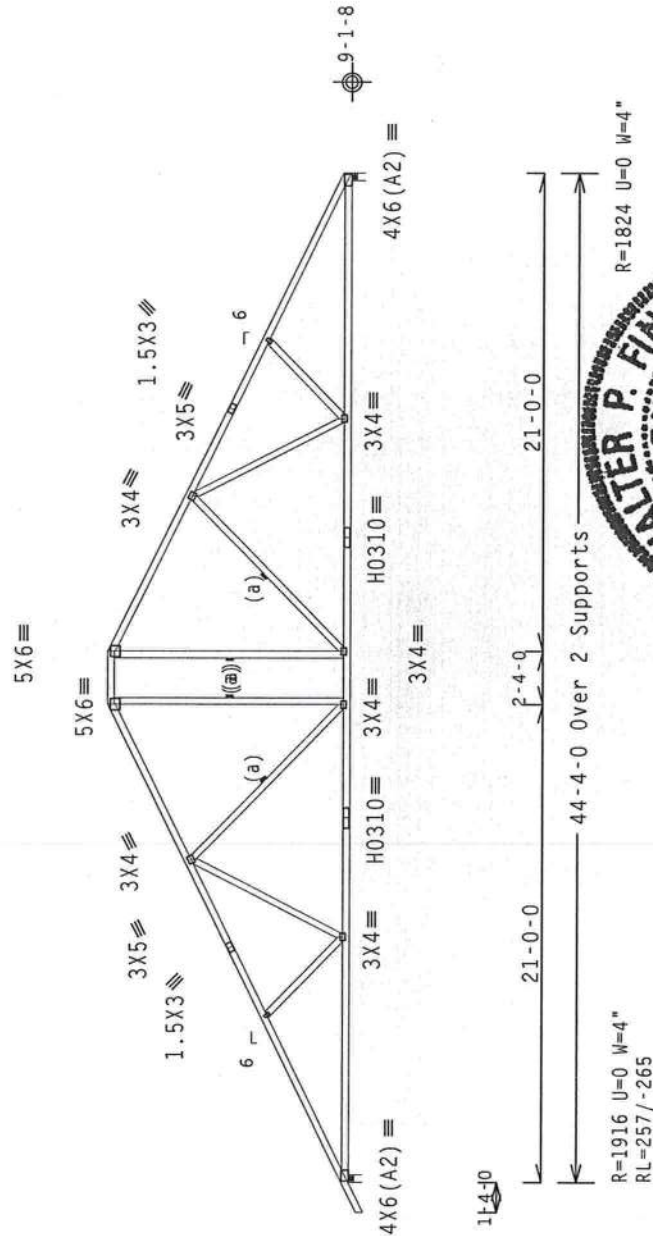
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

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

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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



PLT TYP. 20 Gauge HS.Wave

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

1003 No. 0000000000

Scale = .125" / Ft.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

****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. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and MTA) for safety and performance instructions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, all connections shall be made in accordance with the BCSI. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This Job's general notes page: ITN-BCG: www.itnbcg.com; TPI: www.tpinet.org; MTA: www.mtaindustry.com; ICC: www.iccsafe.org

WALTER P. FINN
LICENSE
No. 0000000000
FLORIDA
PROFESSIONAL ENGINEER
05/16/2012

TC LL	20.0 PSF	REF	R487--	81717
TC DL	10.0 PSF	DATE	05/16/12	
BC DL	10.0 PSF	DRW	HCUSR487	12137006
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	40.0 PSF	SEQN-	95453	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UM487_Z03	

Top chord	2x6	SP #2
Bot chord	2x6	SP #2
Webbs	2x4	SP #3

:B2 2x6 SP #1 Dense:
:W2, W10 2x4 SP #1:

End verticals not exposed to wind pressure.

Max JT VERT DEFL: LL: 0.32" DL: 0.52" recommended camber 7/8"

These support conditions used at bearings indicated
(H1) = Simpson HUS26 w/ (2)x6 SP W-26 supporting member.
(14) 0.162"x3.5" nails into supporting member,
(6) 0.162"x3.5" nails into supported member.

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

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

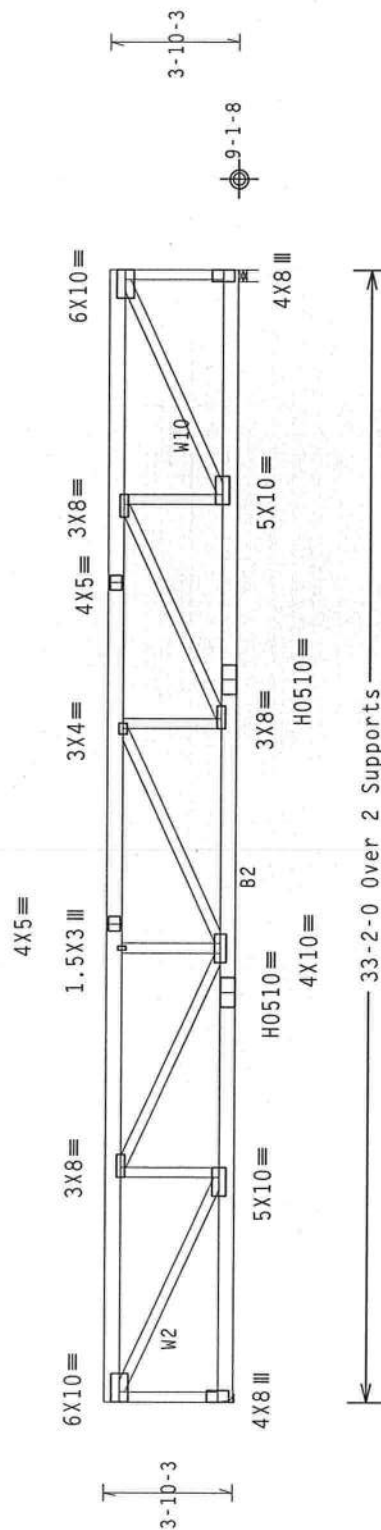
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Girder supports 7-0-0 span to TC/BC split one face and 2-0-0 span to TC/BC split opposite face.

Truss must be installed as shown with top chord up.



R-3070 U=335 H=Simpson HUS26
Supported Member Face: (6) 0.162"x3.5" nails
Supporting Member Face: (14) 0.162"x3.5" nails
Supporting Member : (2) 2x6 SP #1 Dense

PLT TYP. 20 Gauge HS.Wave

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

10:03 11 032039 QTY 1

FL/-/4/-/-/R/-/-

Scale = .1875"/Ft.

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

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

Trusses require extreme care in fabricating, shipping, installing and bracing. Following the latest edition of ACI 308, the following information, by API and MICA, is being provided to assist in the proper installation of these trusses. Trusses shall have a properly attached structural sheathing and bracing. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per ACI sections 8.3, 8.7 or 8.10, as applicable.

ALPINE

TW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

05/16/2012

general notes page: ITW-BCG; www.itwbcg.com; TPI: www.tpinst.org; WTCA: www.sbcindustry.com

Haines City, FL 33844

City, FL

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

These support conditions used at bearings indicated
(H1) = Simpson HUS26 w/ (2)2x6 SP M-26 supporting member.
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS 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=5.0 psf, wind BC DL=5.0 psf. GCPI (+/-)=0.18

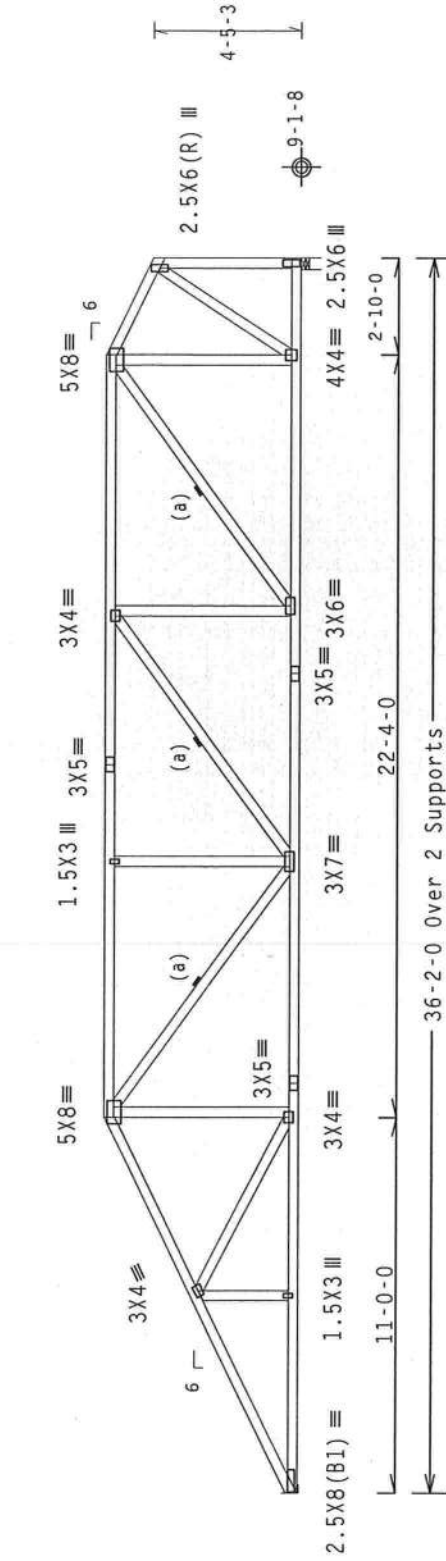
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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



R=1495 U=165
RL=100/-57 H=Simpson HUS26
Supported Member Face: (4) 0.148"x3" nails
Supporting Member Face: (14) 0.148"x3" nails
Supporting Member : (2) 2x6 SP #2

R=1484 U=182 W=4"

PLT TYP. Wave

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

Scale = .1875"/Ft.
REF R487-- 81719
DATE 05/16/12
DRW HCUSR487 12137007
HC-ENG JB/WPF
SEQN- 95366
JREF- 1UM4487_Z03

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278



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

****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for details and instructions. Truss members shall be protected from damage during handling and shipping. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installation, or bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This Job's general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org

Top	chord	2x4	SP	#1
30t	chord	2x4	SP	#1
	webs	2x4	SP	#3

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=5.0 psf, wind BC DL=5.0 psf. GCPI (+/-)=0.18

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

These support conditions used at bearings indicated
(H1) = Simpson HUS26 w/ (2)2x6 SP M-26 supporting member.

(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Bottom chord checked for 10.00 psf non-concurrent live load.

WFRS loads based on trusses located at least 7.50 ft. from roof edge.

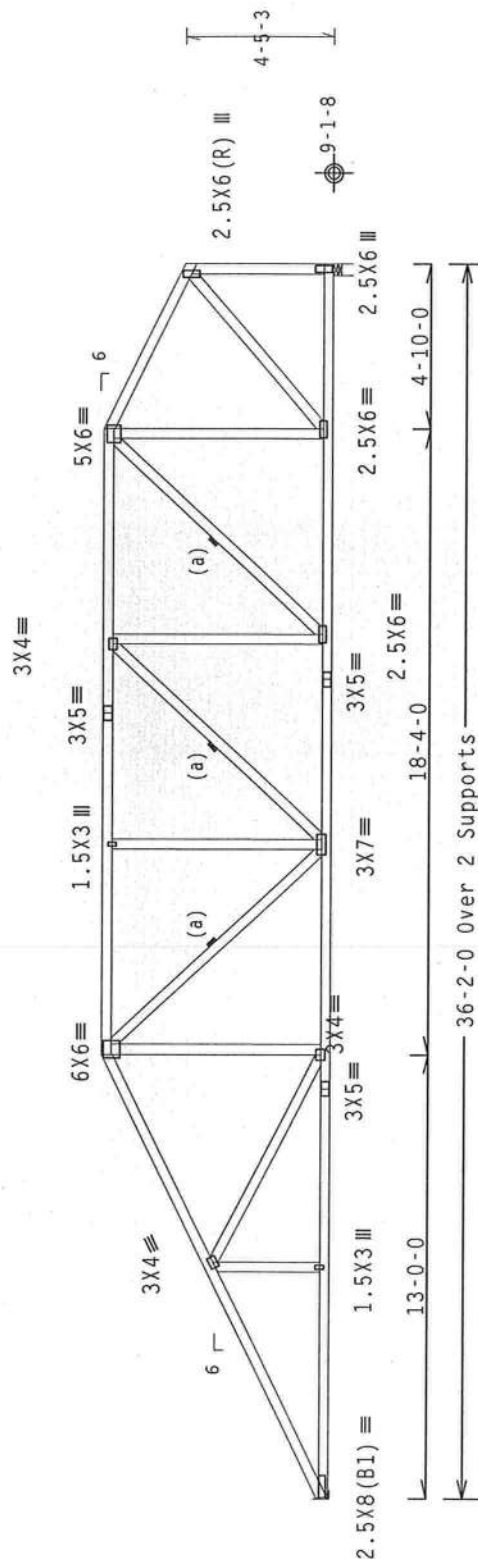
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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



R=1495 U=163

RL=120/-80 H=Simpson HHS26

Supported Member Face: (4) 0.148"x3" nails

Supporting Member Face: (14) 0.148"x3" nails

Supporting Member : (2) 2x6 SP #2

R=1484 U=179 W=4"

PLT TYP. Wave

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

10:03. No. 228219

FL/-/4/-/-/R/-
Scale = .1875"/Ft.

IMPORTANT** ****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 the latest edition of the National Building Construction Safety Association, by FPI and MTCAL for safety and bracing information. Temporary bracing per RCES1 sections B3, B7 or B10, as applicable, shall have a property attached rigid ceiling. RCES1 sections B3, B7 or B10, as applicable, shall have bracing installed per RCES1 sections B3, B7 or B10, as applicable.

[illegible]

05/16/2012

JREF- 1UM4487_Z03

SPACING 24.0"

05/16/2012

1

y.com:

www.sbsc

.org: W

WWW :

wbcg.com

W-BCG:

ates pa

gen

4480

City:

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

These support conditions used at bearings indicated
(H1) = Simpson HUS26 w/ (2) 2x6 SP M-26 supporting member.
(14) 0.148"x3" nails into supporting member,
(4) 0.148"x3" nails into supported member.

Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS 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=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

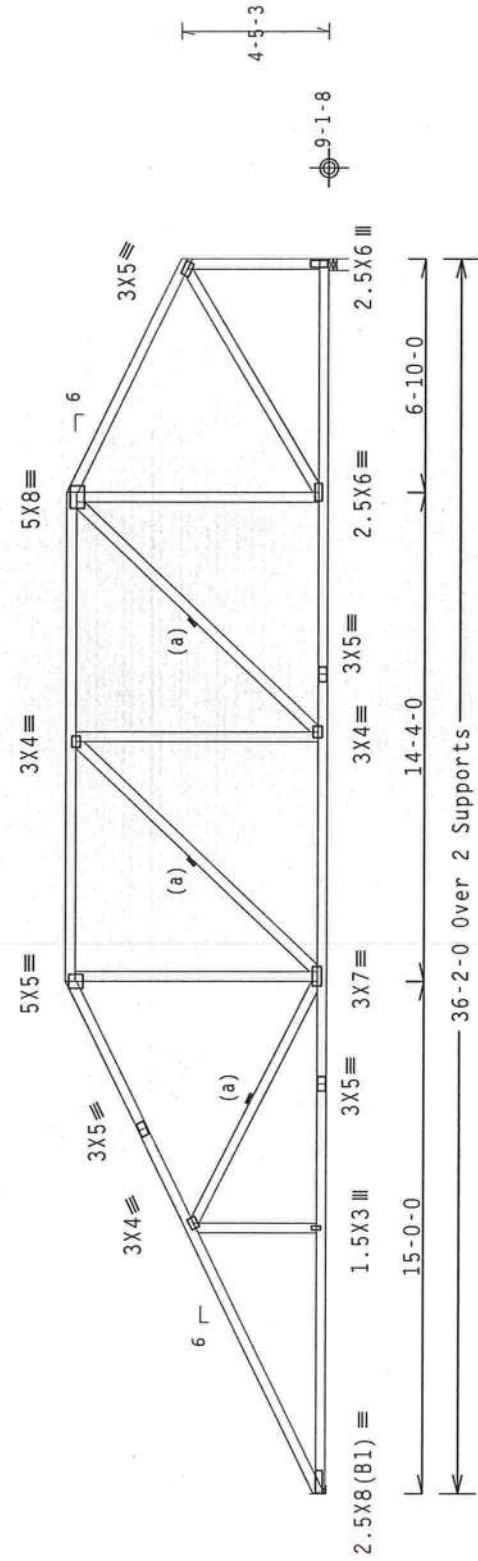
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

(a) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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



R=1495 U=32
RL=143/-103 H-Simpson HUS26
Supported Member Face: (4) 0.148"x3" nails
Supporting Member Face: (14) 0.148"x3" nails
Supporting Member : (2) 2x6 SP #2

PLT TYP. Wave

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

Scale = .1875"/Ft.

 ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET! **IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses and bracing shall be installed in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced in accordance with the design and specifications. Trusses shall be installed and braced	
--	---	--

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

(a) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

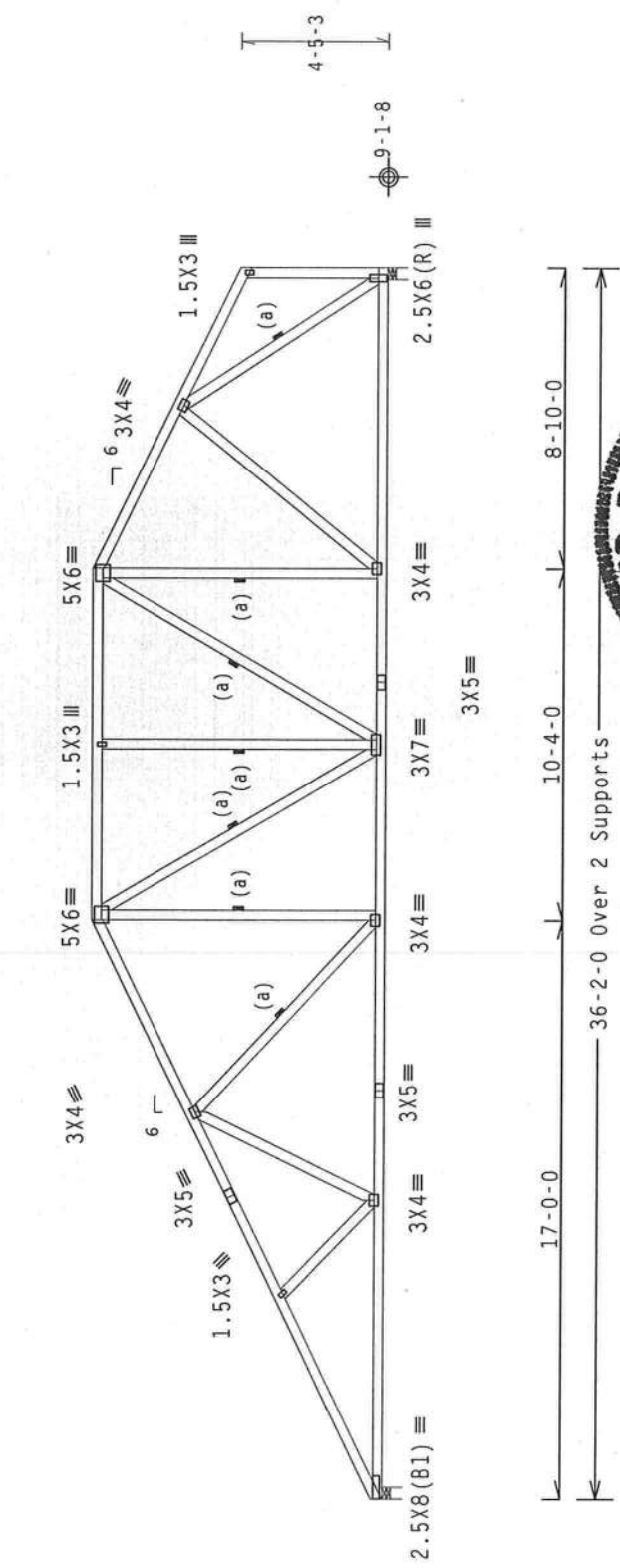
MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

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=5.0 psf, wind BC DL=5.0 psf, GCPI (+/-)=0.18

Wind loads and reactions based on MWFRS 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.



PLT TYP. Wave

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

Scale = .1875"/Ft.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. To safely follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for proper erection, the contractor shall provide temporary bracing per BCSI requirements. Unless noted otherwise, top chord shall have properly attached structural sheathing. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on this drawing or cover page listing this design. Indicates acceptance of professional engineering. The responsibility for this design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This Job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org



REF	R487--	81722
DATE	05/16/12	
DRW	HCUSR487	12137010
HC-ENG	JB/WPF	
SEQN-	95396	
DUR.FAC.	1.25	
SPACING	24.0"	
JREF-	1UM487_Z03	

(12-089--BRYAN ZECHER Garrison Res. --, ** - HS9A 33'2" Flat)

Top	chord	2x4	SP	#1
Bot	chord	2x4	SP	#1
	webs	2x4	SP	#3

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=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

These support conditions used at bearings indicated
(H1) = Simpson LUS26 w/ (2)2x6 SP M-26 supporting member.
(4) SD912, 0.131"x2.5" into supporting member.
(4) SD912, 0.131"x2.5" into supporting member.

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

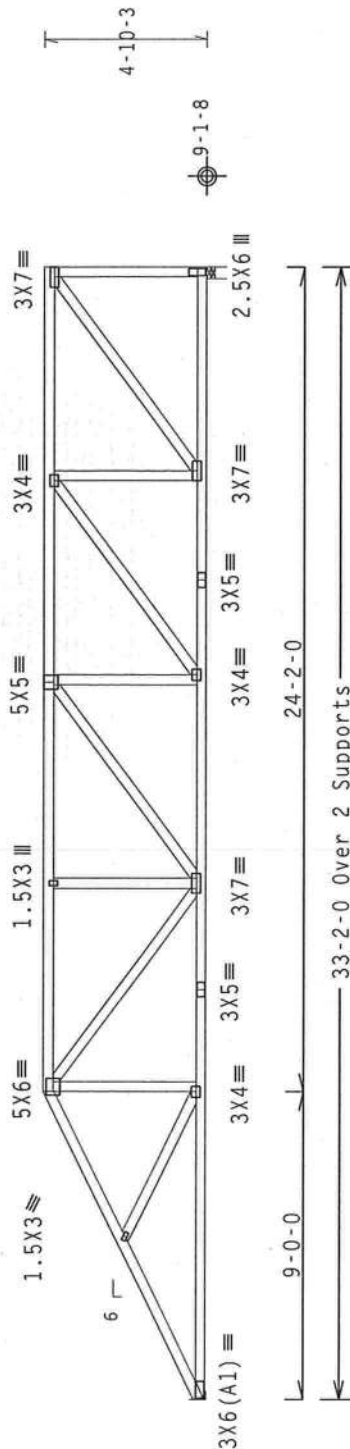
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



R=1371 U=150
RL=109/-26 H=Simpson LUS26
Supported Member Face: (4)
Supporting Member Face: (4)
Supporting Member : (2) 2x6

Supporting Member : (2) 2x6 SP #1 Dense Design Crft: FBC2010Res/TPI-2007 (STD FT/RT=20%(0%)/0(0)

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

IMPORTANT: 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 RCSI (Building Component Safety Information, by TPI and WCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per RCSI.

ALPINE

TW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278



FL/-/4/-/-/R/-		Scale = .1875"/Ft.
TC LL	20.0 PSF	REF R487-- 81724
TC DL	10.0 PSF	DATE 05/16/12
BC DL	10.0 PSF	DRW HCUR8487 12137012
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT.LD.	40.0 PSF	SEQN- 95328
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1UM4487_Z03

(12-089--BRYAN ZECHER Garrison Res. -- ** - AT 32'4"8 Common)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3 : W3 2x6 SP #2 : W14 2x4 SP #1 :
Rt Bearing Leg 2x4 SP #3 :

Left end vertical not exposed to wind pressure.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

MFERS loads based on trusses located at least 16.22 ft. from roof edge.

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

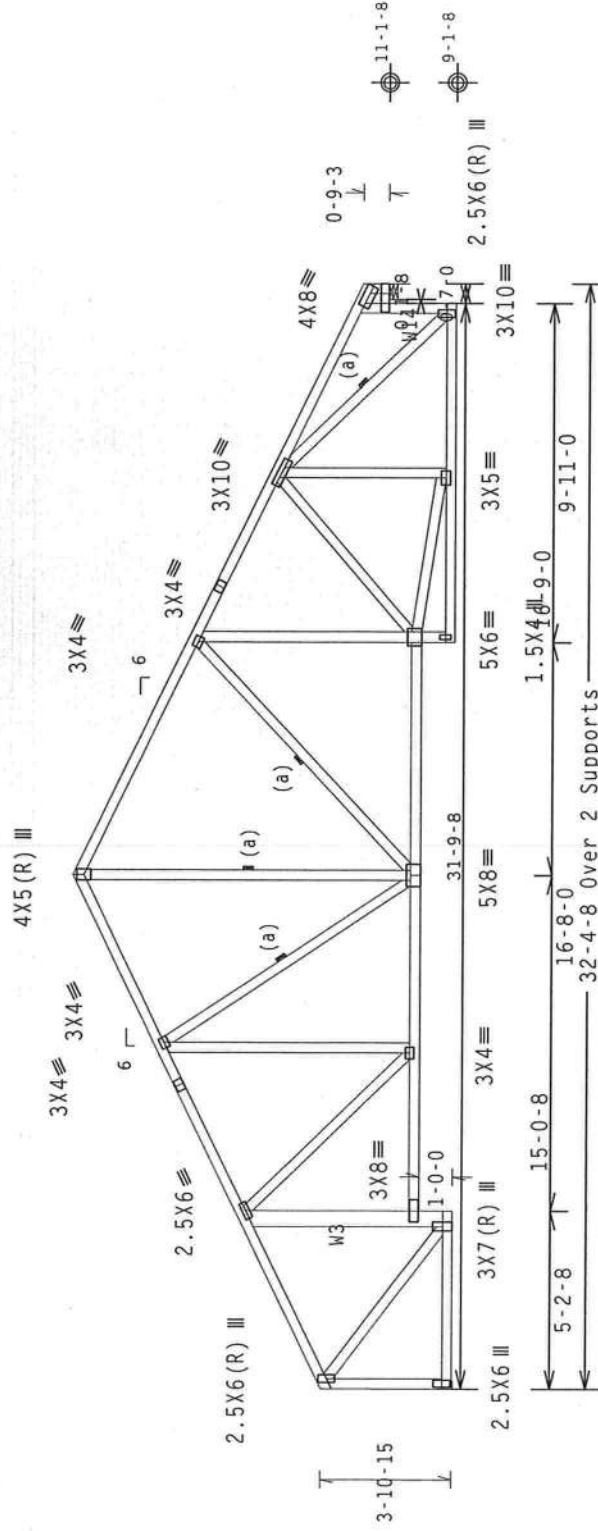
120 mph wind, 16.22 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, Exp C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI (+/-)=0.18

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

These support conditions used at bearings indicated
(H1) = Simpson HUS26 w/ (1) 2x6 Sp M-26 supporting member.
(14) 0.148"x3" nails into supporting member.
(4) 0.148"x3" nails into supported 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 increase factor for dead load is 1.50.



R=1416 U=0

RL=171/-184 H=Simpson HUS26

Supported Member Face: (4) 0.148"x3" nails

Supporting Member Face: (14) 0.148"x3" nails

Supporting Member : (1) 2x6 SP #2

Design Crit: FBC2010Res/TPI-2007 (STD

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

PLT TYP. Wave

10'03. No. 22839

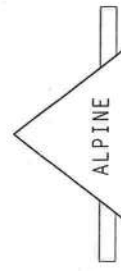
FL/-/4/-/-R/-

Scale = .1875"/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. The designer shall follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) for safety and bracing details. Trusses shall be braced in accordance with the BCSI requirements. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraining 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 the bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com TPI: www.tpiinc.org WTCA: www.bcsiindustry.com. ICC: www.iccsafe.org



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278



TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R487--	81725
DATE	05/16/12	
DRW	HCUSR487	12137013
HC-ENG	JB/WPF	
SEQN-	95919	
JREF-	1UM4487_Z03	

(12-089--BRYAN ZECHER Garrison Res. -- ** - H11AT 44'4" Stepdown Hip Girder)

Top chord 2x4 SP #1 :T3, T4 2x4 SP M-30:
Bot chord 2x4 SP #1 :B2 2x4 SP M-30: :B5 2x6 SP SS:
Webs 2x4 SP #3 :W12, W20 2x4 SP #1:
:W22 2x6 SP #2:

Special loads

-----Lumber Dur. Fac.=1.25 / Plate Dur. Fac.=1.25)
TC- From 62 plf at -1.33 to 62 plf at 3.84
TC- From 62 plf at 3.84 to 62 plf at 11.00
TC- From 62 plf at 11.00 to 62 plf at 23.00
TC- From 62 plf at 23.00 to 62 plf at 33.33
TC- From 62 plf at 33.33 to 62 plf at 45.67
BC- From 4 plf at -1.33 to 4 plf at 0.00
BC- From 20 plf at 0.00 to 20 plf at 2.67
BC- From 20 plf at 2.67 to 20 plf at 8.00
BC- From 20 plf at 8.00 to 20 plf at 16.00
BC- From 20 plf at 16.00 to 20 plf at 30.33
BC- From 20 plf at 30.33 to 20 plf at 44.33
BC- From 4 plf at 44.33 to 4 plf at 45.67
BC- 4388.16 lb Conc. Load at 38.27

Roof overhang supports 2.00 psf soffit load.

Calculated horizontal deflection is 0.11" due to live load and 0.17" due to dead load.

Bottom chord checked for 10.00 psf non-concurrent live load.

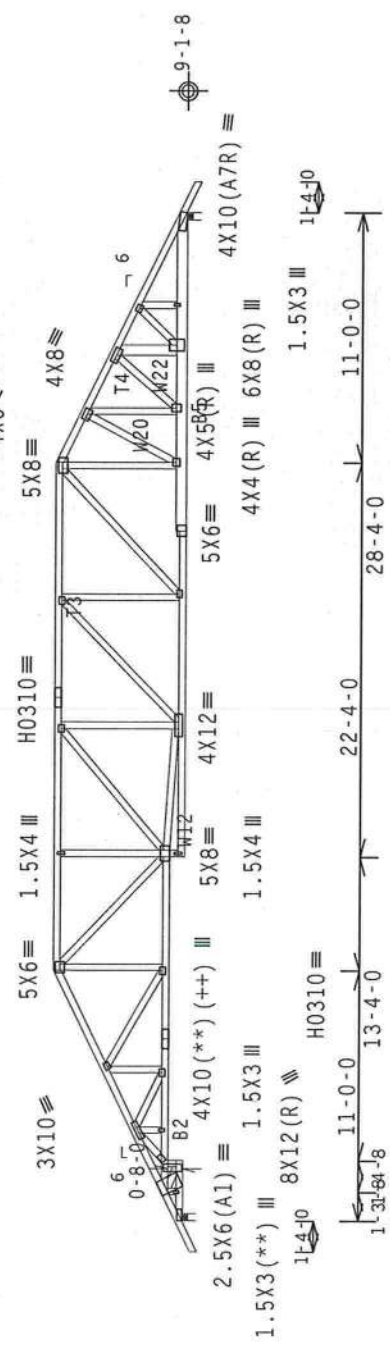
2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.
4" o.c. spacing of nails perpendicular and parallel to grain required in area over bearings greater than 4"
(++) - This plate works for both joints covered.
(**) 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=5.0 psf, wind BC DL=5.0 psf. GCpf (+/-)=0.18

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

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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



R=2504 U=323 W=4"

Note: All Plates Are 3x4 Except As Shown.

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

PLT TYP. 20 Gauge HS.Wave

10'03 11 02 28 39

Scale = .125"/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. The latest edition of RCSC (Building Component Safety Information, by TPI and MTCA) must be followed. Trusses are not to be braced with temporary bracing in the field. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per RCSC sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1.1 or for handling, shipping, installation, or bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com, TPI: www.tpiinc.org, MTCA: www.bcindustry.com, ICC: www.iccsafe.org		10'03 11 02 28 39		QT=1	FL/-/4/-/-/R/-	REF R487-- 81726
ALPINE		TC LL	20.0 PSF	TC DL	10.0 PSF	DATE 05/16/12
ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278		BC DL	10.0 PSF	BC LL	0.0 PSF	DRW HCUSR487 12137043
		TOT.LD.	40.0 PSF	DUR.FAC.	1.25	HC-ENG JB/WPF
		SPACING	24.0"	SEQN-	96108	
				JREF-	1UM4487_203	

Top	chord	2x4	SP	#1
Bot	chord	2x4	SP	#1
	webs	2x4	SP	#3

Left end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

(a) Continuous lateral bracing equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

MWFRS 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=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

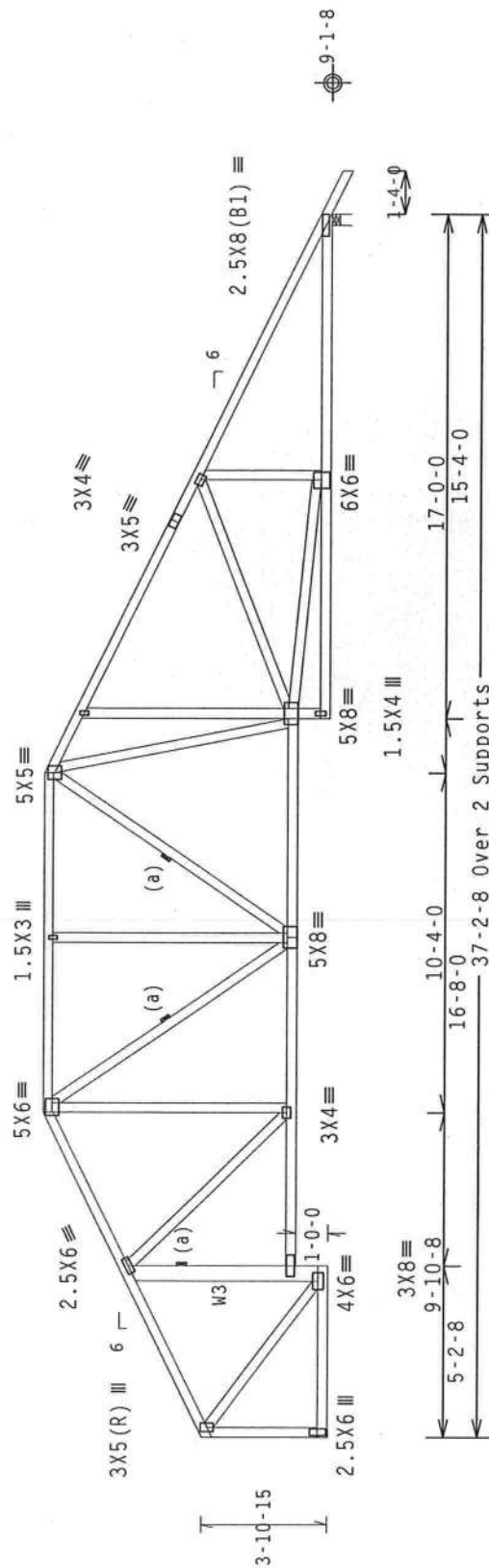
Wind loads and reactions based on MWFRS with additional C&C member design.

Calculated horizontal deflection is 0.11" due to live load and 0.18" due to dead load.

These support conditions used at bearings indicated
(H1) = Simpson HUS26 w/ (1)2x6 SP M-26 supporting member.
(14) 0.148"x3" nails into supporting member.
(4) 0.148"x3" nails into supported 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.



R-1524 U=0
RL=154/-181 H=Simpson HUS26
Supported Member Face: (4) 0.148"x3" nails
Supporting Member Face: (14) 0.148"x3" nails
Supporting Member : (1) 2x6, SP.#2.

R=1629 U=27 W=4"

PLT TYP. Wave

Design Crit: FBCZ010KES/IPI-200/(SID)
FT/RT=20%(0%) / 0(0)

10:03.1 No 22839

Scale = .1875"/Ft.

TC LL	20.0 PSF	REF R487-- 81729
TC DL	10.0 PSF	DATE 05/16/12
BC DL	10.0 PSF	DRW HCUR487 12137015
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT.LD.	40.0 PSF	SEQN- 95822
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1UM4487 Z03

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

A circular professional engineer seal for the State of Florida. The outer ring contains the text "STATE OF FLORIDA" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the number "12586" is printed. A signature, "J. B. Smith", is written across the seal.

****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. Rafter ties shall follow the latest edition of BCSP (Building Component Supply) information for rafter tie design. The contractor shall provide adequate bracing for all trusses during erection. Truss members shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSP sections 83, 87 or B10, as applicable.

[illegible]

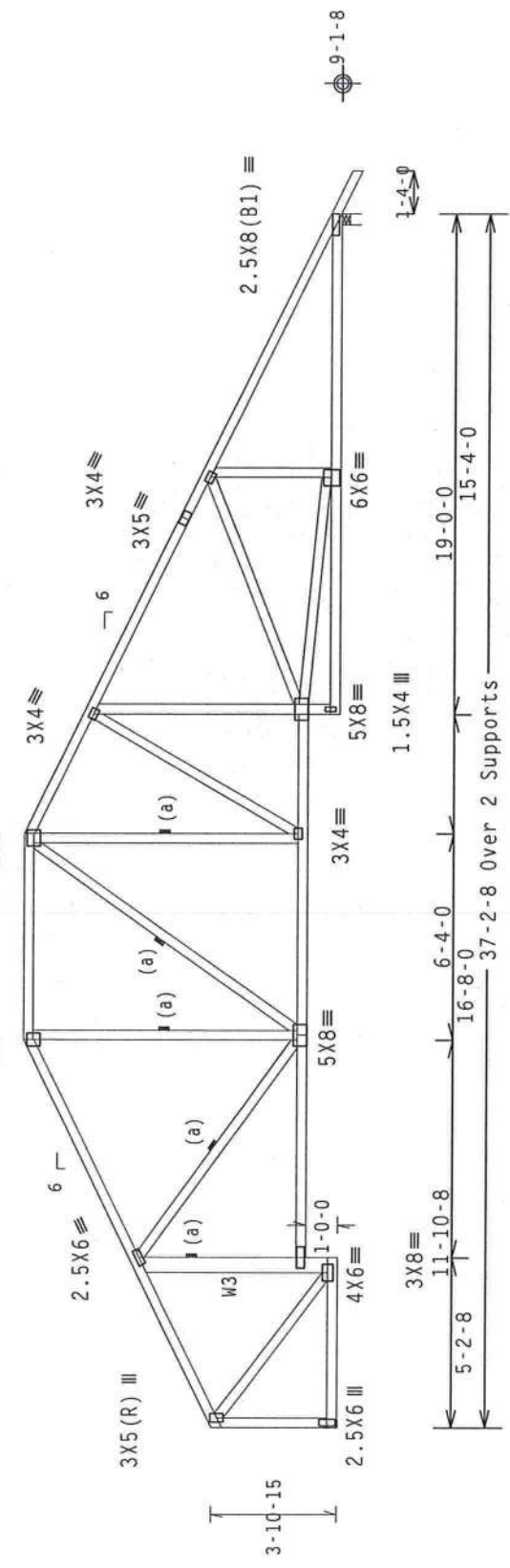
ALPINE

TW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3 :W3 2x6 SP #2:
Left end vertical not exposed to wind pressure.
Roof overhang supports 2.00 psf soffit load.
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.
(a) Continuous lateral bracing equally spaced on member.
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.
MWFRS loads based on trusses located at least 15.00 ft. from roof edge.
5X5= 5X6=

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=5.0 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18
Wind loads and reactions based on MWFRS with additional C&C member design.
Calculated horizontal deflection is 0.12" due to live load and 0.18" due to dead load.
These support conditions used at bearings indicated
(H1) = Simpson HUS26 w/ (1)2x6 SP M-26 supporting member.
(14) 0.148"x3" nails into supporting member.
(4) 0.148"x3" nails into supported 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.

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



R=1524 U=0
RL=177/-203 H=Simpson HUS26
Supported Member Face: (4) 0.148"x3" nails
Supporting Member Face: (14) 0.148"x3" nails
Supporting Member : (1) 2x6 SP #2
Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/0(0)

PLT TYP. Wave	10.03. No 22839	FL/-4/-/-R/-	Scale =.1875"/Ft.
TC LL	20.0 PSF	REF	R487-- 81730
TC DL	10.0 PSF	DATE	05/16/12
BC DL	10.0 PSF	DRW	HCUSR487 12137016
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN	95827
DUR.FAC.	1.25		
SPACING	24.0"	JREF	- IUM4487_Z03



Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WICA) for safety and bracing information. Truss installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have bracing installed per BCSI. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B2, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WICA: www.wicaindustry.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

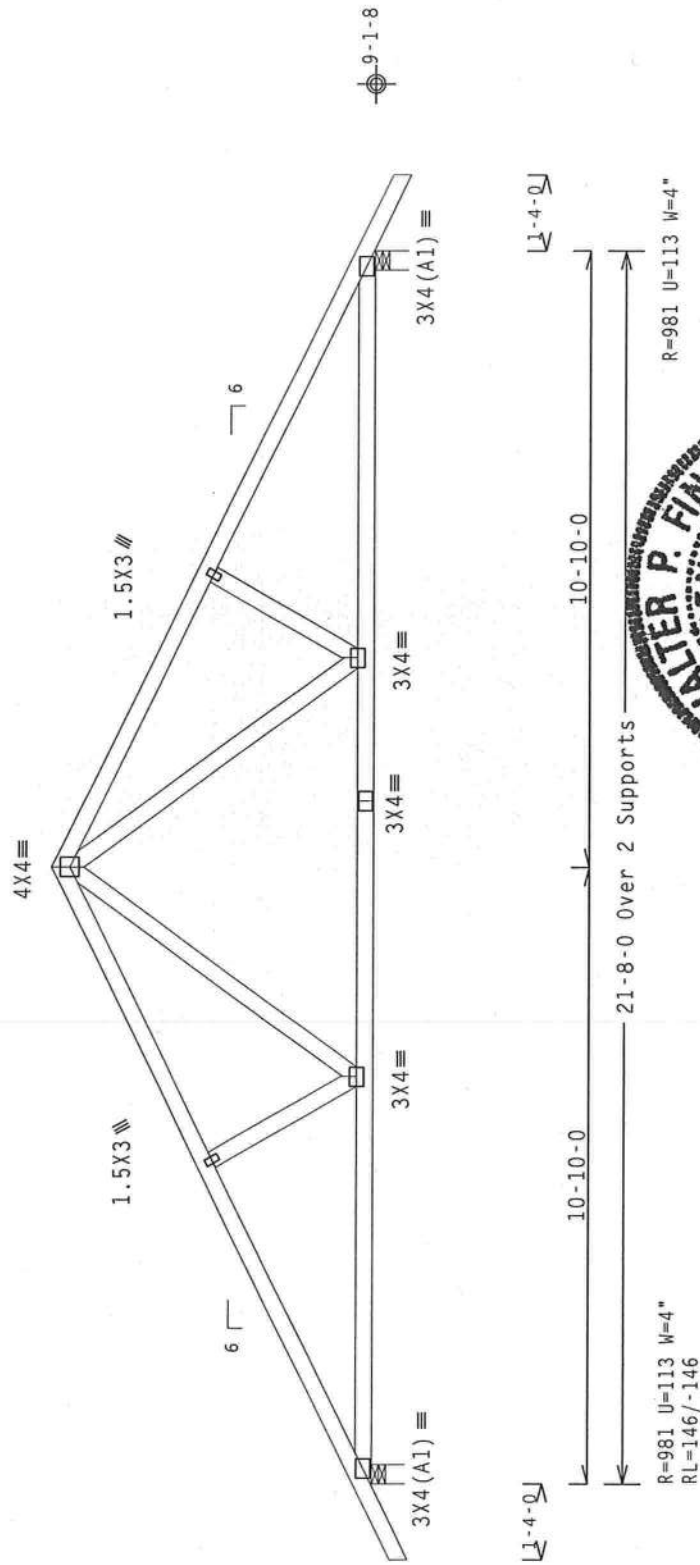
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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

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

• **IBISAP**:

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



R=981 U=113 W=4"
RL=146/-146

21-8-0 Over 2 Supports

R=981 U=113 W=4"

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

PLT TYP. Wave

FL/-/4/-/-/R/-

Scale = .3125"/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. It is recommended that the latest edition of the Building Component Safety Information, by TPI and WCA (1985), be used as a guide to proper practices. Trusses shall have properly attached structural sheathing and bracing. Trusses shall have a properly attached ridge purlin. Locations shown for permanent lateral restraint shall have bracing installed per AC308 sections 83, 87 or 810, as applicable.

[illegible]

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Haines City, FL 33844
FL COA #0 278

05/16/2012

SPACING 24.0"

JREF- 1UM4487 703

(12-089--BRYAN ZECHER Garrison Res. -- , ** - B1 21'8" Common)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

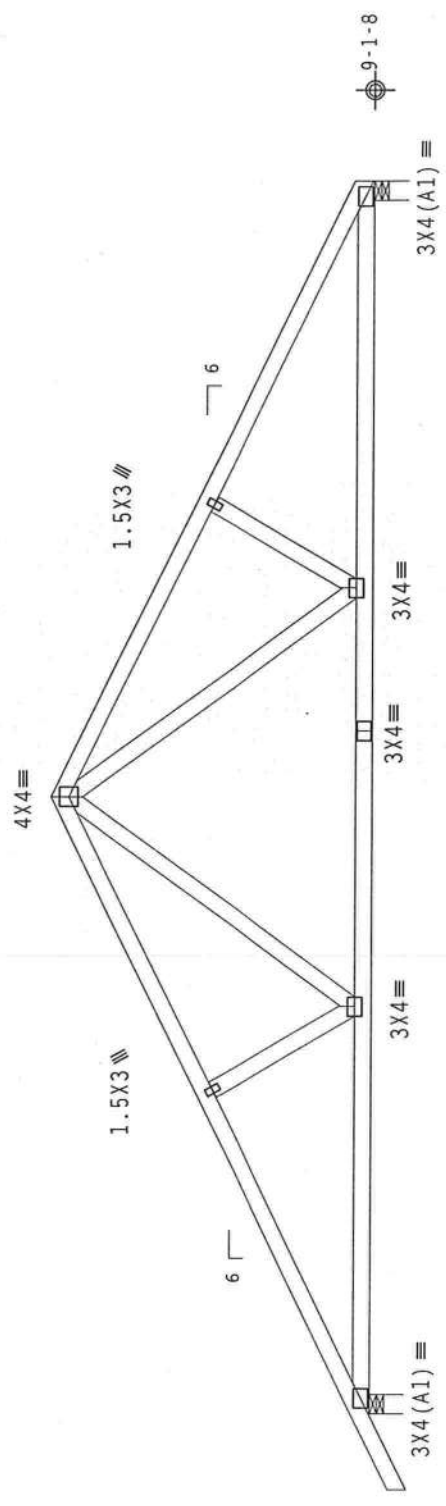
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

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 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI (+/-)=0.18

Wind loads and reactions based on MWFRS 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.



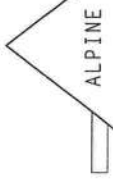
L1-4-QJ

R=985 U=114 W=4"
RL=128/-135

21-8-0 Over 2 Supports

R=889 U=94 W=4"

PLT TYP. Wave



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Design Crit: FBC2010Res/TPI-2007 (STC)
FT/RT=20%(0%) / 0(0)

10.03 11.0209.20
No. 22839

WALTER P. FINN
LICENSE
STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/16/2012

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. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and MTC) for details and instructions. Installers shall provide temporary bracing for all trusses. Trusses shall be braced in all directions. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint 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 any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal or drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility of the Building Components Group Inc. and use of this design for any structure. General notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; MTC: www.bctindustry.com; ICC: www.iccsafe.org

TC LL	20.0 PSF	REF	R487--	81733
TC DL	10.0 PSF	DATE	05/16/12	
BC DL	10.0 PSF	DRW	HCUSR487	12137019
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	40.0 PSF	SEQN	95252	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1UM4487_Z03	

Scale = .3125"/Ft.

FL / - / 4 / - / - / R / -

(12-089--BRYAN ZECHER Garrison Res. -- ** - BS 10'9"4 Common)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

These support conditions used at bearings indicated
(H1) = Simpson LUS24 w/ (1)2x4 SP #1 supporting member.
(4) 0.148"x3" nails into supporting member.
(2) 0.148"x3" nails into supported member.

MWFRS loads based on trusses located at least 30.00 ft. from roof edge.

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 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI (+/-)=0.18

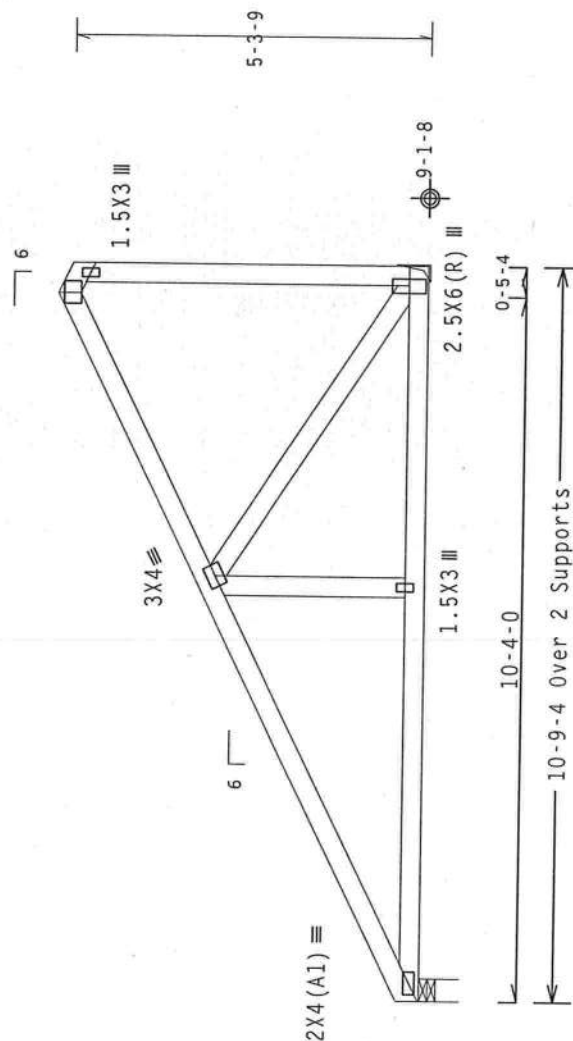
Wind loads and reactions based on MWFRS with additional C&C member design.

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.

3X4



R=450 U=0 W=4"
RL=85/-31

R=437
Support member (2) 0.148"x3" nails
Support member (4) 0.148"x3" nails
2x4 SP #1

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

PLT TYP. Wave



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

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 the following information for details. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall be installed in accordance with the manufacturer's instructions.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design of trusses. Apply plates to each face of truss and position as shown above and on the joint. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall be installed in accordance with the manufacturer's instructions.

R=437

Support member (2) 0.148"x3" nails

Support member (4) 0.148"x3" nails

2x4 SP #1

1003. No. 22839

1003. No. 22839

1003. No. 22839

1003. No. 22839

1003. No. 22839

1003. No. 22839

1003. No. 22839

1003. No. 22839

1003. No. 22839

Scale = .375" / Ft.

REF R487 -- 81734

DATE 05/16/12

DRW HCUSR487 12137020

HC-ENG JB/WPF

SEQN - 95148

DUR.FAC. 1.25

SPACING 24.0"

JREF - 1UM4487_Z03

Trusses or components connecting to this girder have been modified by the truss designer. The loading for this girder requires verification for accuracy.

-----	(Lumber	Dur. Fac.=1.25	/	Plate	Dur. Fac.=1.25)
TC-From	62	plf at 1.33	to	62	plf at 7.00
TC-From	62	plf at 7.00	to	62	plf at 10.73
TC-From	31	plf at 10.73	to	31	plf at 14.67
TC-From	62	plf at 14.67	to	62	plf at 23.00
BC-From	4	plf at 1.33	to	4	plf at 0.00
BC-From	20	plf at 0.00	to	20	plf at 10.73
BC-From	10	plf at 10.73	to	10	plf at 14.64
BC-From	20	plf at 14.64	to	20	plf at 21.67
BC-From	4	plf at 21.67	to	4	plf at 23.00
TC-188.65	b	Conc. Load at 12.77			
TC-435.25	b	Conc. Load at 14.60			
BC-851.19	b	Conc. Load at 10.73			
BC-129.14	b	Conc. Load at 12.77			
BC-503.64	b	Conc. Load at 14.64			

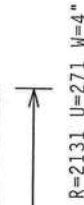
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpf(+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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/TPI-2007(STD
FT/RT=20%(0%)/0(0)
$$\text{FL} / - / 4 / - / - / \text{R} / - \quad \text{Scale} = .3125" / \text{Ft.}$$

TC LL	20.0	PSF	REF R487--	81735
TC DL	10.0	PSF	DATE	05/16/12
BC DL	10.0	PSF	DRW HCURS487	12137045
BC LL	0.0	PSF	HC-ENG JB/WPF	
TOT.LD.	40.0	PSF	SEQN-	95355
DUR.FAC.	1.25			
SPACING	24.0"		JREF-	1UM4487_Z03

05/16/2012

FL COA #0 278

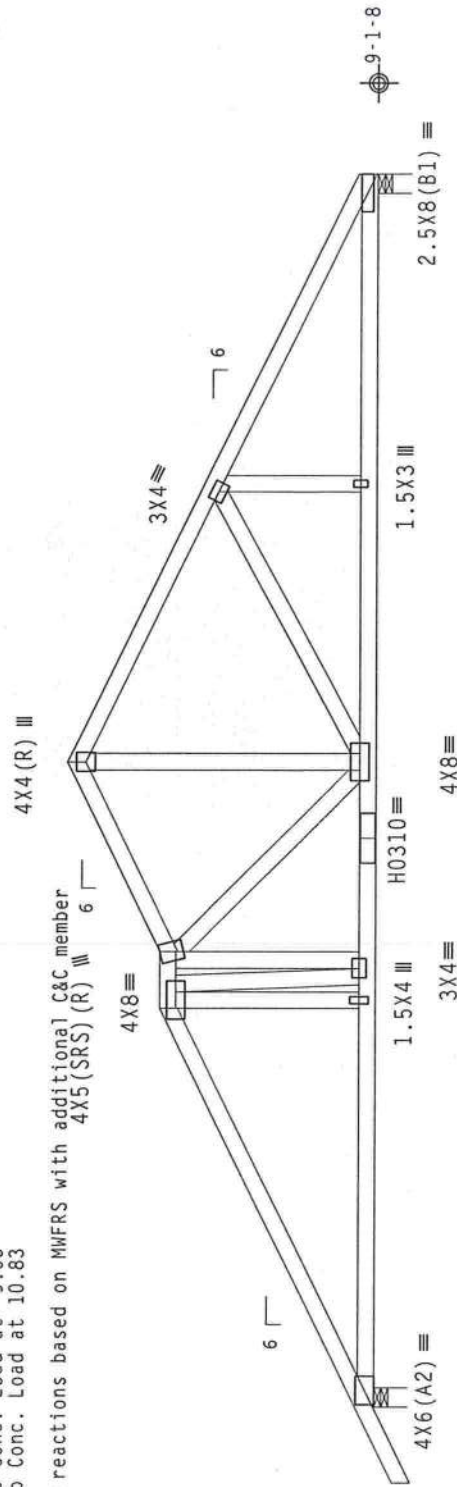
Haines City, FL 33844
FL COA #0 278

Top	chord	2x4	SP	#1
Bot	chord	2x4	SP	#1
	webs	2x4	SP	#3

Special loads

Species	(Lumber	Dur.Fac.=1.25 /	Plate	Dur.Fac.=1.25)
TC-From	62 pf at -1.33 to	62 pf at	7.06	
TC-From	62 pf at -1.33 to	62 pf at	7.06	
TC-From	62 pf at 7.00 to	62 pf at	7.03	
TC-From	31 pf at 8.00 to	31 pf at	7.05	
TC-From	62 pf at 1.33 to	62 pf at	10.83	
BC-From	4 pf at -1.33 to	4 pf at	0.00	
BC-From	20 pf at 0.00 to	20 pf at	7.05	
BC-From	10 pf at 7.05 to	10 pf at	10.83	
BC-From	20 pf at 10.83 to	20 pf at	21.67	
TC-281.53	1b Conc.	Load at	7.06	
TC-210.00	1b Conc.	Load at	9.06	
BC-228.26	1b Conc.	Load at	7.03	
BC-301.38	1b Conc.	Load at	7.05	
BC-140.00	1b Conc.	Load at	9.06	
BC-548.13	1b Conc.	Load at	10.83	

wind loads and reactions based on MWFRS with additional C&C member design.



11-4-21

7-0-0 1-0-0 3-4-0 10-4-0
21-8-0 Over 2 Supports
R=1932 U=245 W=4"
R=1509 U=192 W=4"

R=1932 II=245 W=4"

PLT TYP. 20 Gauge HS. Wave

Design Crit: FBC2010Res/TPI-2007(STD)

FL/-/4/-/-/R/-
Scale = .3125"/Ft.

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. To control the latest edition of BCSI (Building Component Safety Information, by TPI and ATCA) is essential to performing these functions. Installers shall provide temporary bracing in all wind loaded areas. Other trusses may be installed without bracing and bottom chords shall have a property attached per ceiling. Locations shown for permanent lateral bracing shall have bracing installed per BCSI sections 87, 87 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall be responsible for any design from which any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, installing or erecting the truss results. ITWBCG shall be responsible for providing all details, unless noted otherwise. Refer to facing 160A-2 for standard plate positions. A seal on each drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is approved by the Consulting Designer Peter ANSI/TPI 1 sec.2. For more information see: This Job's General Notes, Page ITW-B869; or Website: www.itwbcg.com; TPI: engineering@itwbcg.com; WPA: wpa@itwbcg.com; www.itscfae.org



TTC LL	20.0 PSF	REF R487-- 81736
TTC DL	10.0 PSF	DATE 05/16/12
BC DL	10.0 PSF	DRW HCURS487 12137046
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT.LD.	40.0 PSF	SEQN- 95795
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1UM4487_Z03

05/16/2012

JREF- 1UM4487_Z03

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

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=5.0 psf, wind BC DL=5.0 psf, GCPI (+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

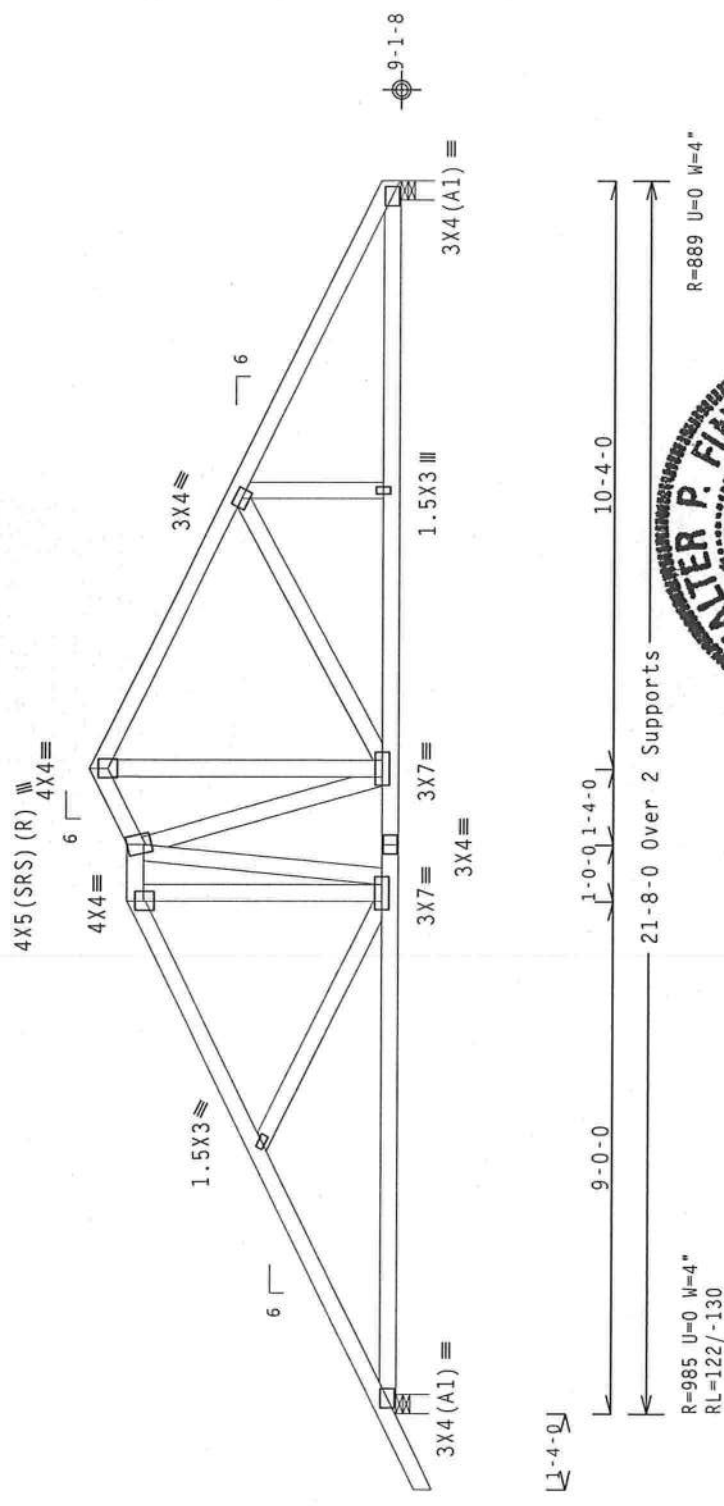
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

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

Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 30.00 ft. from roof edge.



PLT TYP. Wave

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

1003 11 0209 80
No. 22839

WALTER P. FINN
LICENSE
STATE OF FLORIDA
PROFESSIONAL ENGINEER

05/16/2012

Scale = .3125" / Ft.

TC LL	20.0 PSF	REF	R487-- 81738
TC DL	10.0 PSF	DATE	05/16/12
BC DL	10.0 PSF	DRW	HCUSR487 12137022
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN-	95255
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UM4487_Z03

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

12-089--BRYAN ZECHER Garrison Res. --, ** - H9B1 21'8" Stepped Hip

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=5.0 psf, wind BC DL=5.0 psf, GCPI (+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

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

Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 30.00 ft. from roof edge.

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

(12-089--BRYAN ZECHER Garrison Res. -- , ** - C 17'2" Common)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

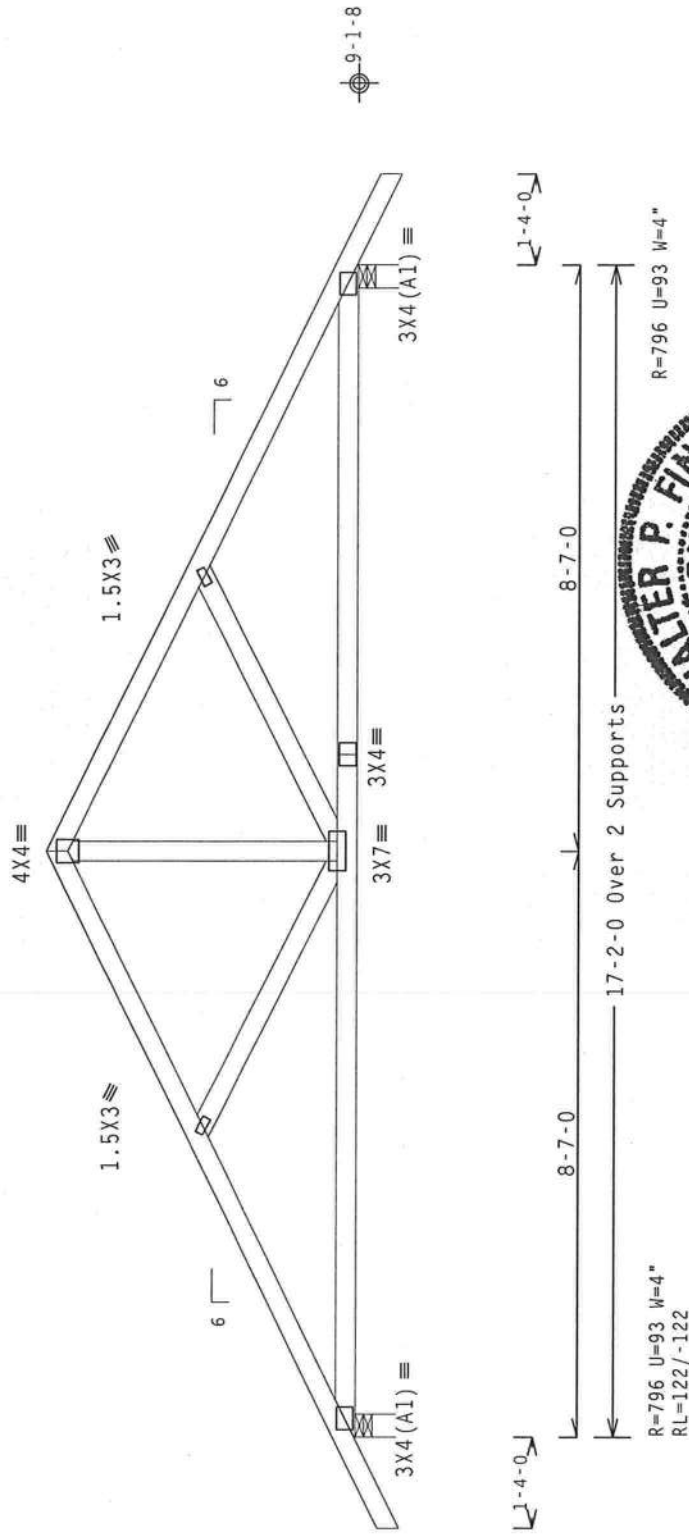
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

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 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS 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.



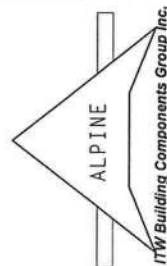
Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20%(0%) / 0(0)

PLT TYP. Wave

10.03 No. 002839

Scale = .375" / Ft.

*****WARNING***** READ AND FOLLOW ALL NOTES ON THIS SHEET.
*****IMPORTANT***** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses must be installed in accordance with the latest edition of BCSI (Building Component Safety Information, by TPI and MCA) for safety, and must be installed in accordance with the latest edition of BCSI (Building Component Safety Information, by TPI and MCA) for safety. Unless noted otherwise, top chord shall have properly attached stiffeners (shoring) and 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 the design of this truss system. The user of this truss system shall be responsible for the design, fabrication, handling, shipping, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 100A-2 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/TPI 1 Sec. 2. For more information on structures and general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; MCA: www.bcsiindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF	R487--	81739
TC DL	10.0 PSF	DATE	05/16/12	
BC DL	10.0 PSF	DRW	HCUSR487	12137023
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	40.0 PSF	SEQN	95265	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1UM4487_Z03	

05/16/2012

Top chord 2x4 SP #1
Bot chord 2x6 SP M-26
Webs 2x4 SP #3

Special loads
----- (Lumber Dur. Fac. = 1.25 / Plate Dur. Fac. = 1.25)
TC- From 62 plf at -1.33 to 62 plf at 8.58
TC- From 62 plf at 8.58 to 62 plf at 17.17
BC- From 4 plf at -1.33 to 4 plf at 0.00
BC- From 20 plf at 0.00 to 20 plf at 7.06
BC- From 10 plf at 7.06 to 10 plf at 15.06
BC- From 20 plf at 15.06 to 20 plf at 17.17
BC- 3070.39 lb Conc. Load at 7.06
BC- 1370.90 lb Conc. Load at 9.06
BC- 1494.52 lb Conc. Load at 11.06, 13.06, 15.06

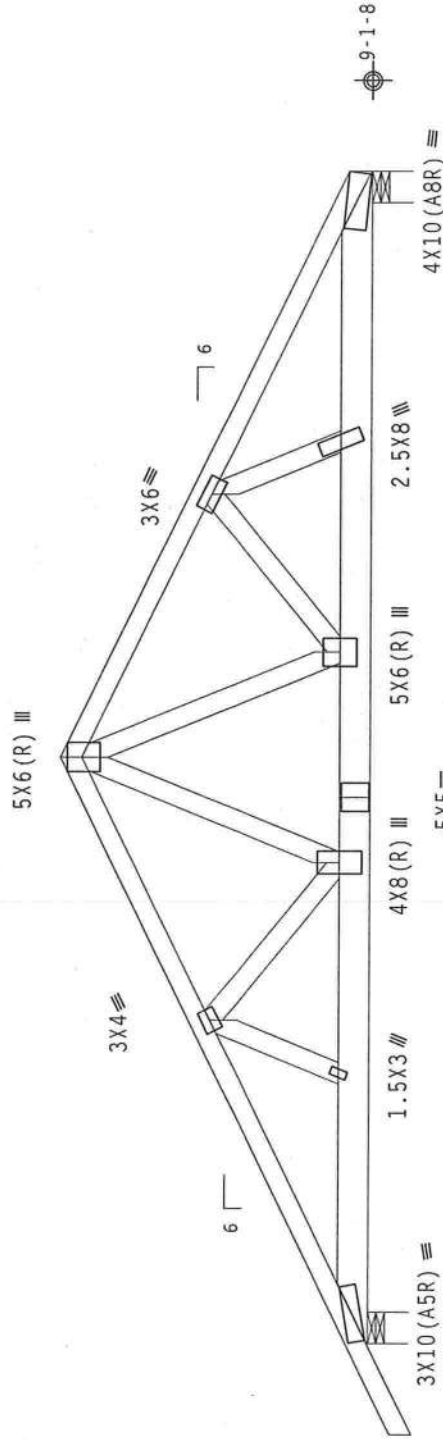
Roof overhang supports 2.00 psf soffit load.

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3", min. nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 2 Rows @ 6.00" o.c. (Each Row)
Webs: 1 Row @ 4" o.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, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI (+/-)=0.18

Wind loads and reactions based on MWFRS 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.



L-4-0

8-7-0

8-7-0

17-2-0 Over 2 Supports

R=4282 U=498 W=5.5"

R=6066 U=589 W=5.5"

PLT TYP. Wave

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

Scale = .375"/Ft.

FL/-/4/-/R/-

QTY 1

10-03-11-0209-20
No. 22839

REF R487--

DATE 05/16/12

DRW HCUSR487 12137047

HC-ENG JB/WPF

SEQN- 95405

DUR.FAC. 1.25

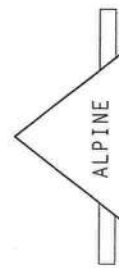
SPACING 24.0"

JREF- 1UM4487_Z03

***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. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and MTCA) and the manufacturer's instructions for proper bracing and installation. Unless noted otherwise, top chord shall have properly attached struts and bracing. Trusses shall have bracing installed per BCSI sections 83, 87 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering. The responsibility of the Building Designer per ANSI/TPI 1.2, and use of this design for any structure is the responsibility of the Building Designer. ITW-BCG: www.itwbcg.com; TPI: www.tpi.org; MTCA: www.mtcaindustry.com; ICC: www.iccsafe.org



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278



(12-089--BRYAN ZECHER Garrison Res. - - H7C 17'2" Stepped Hip Girder)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

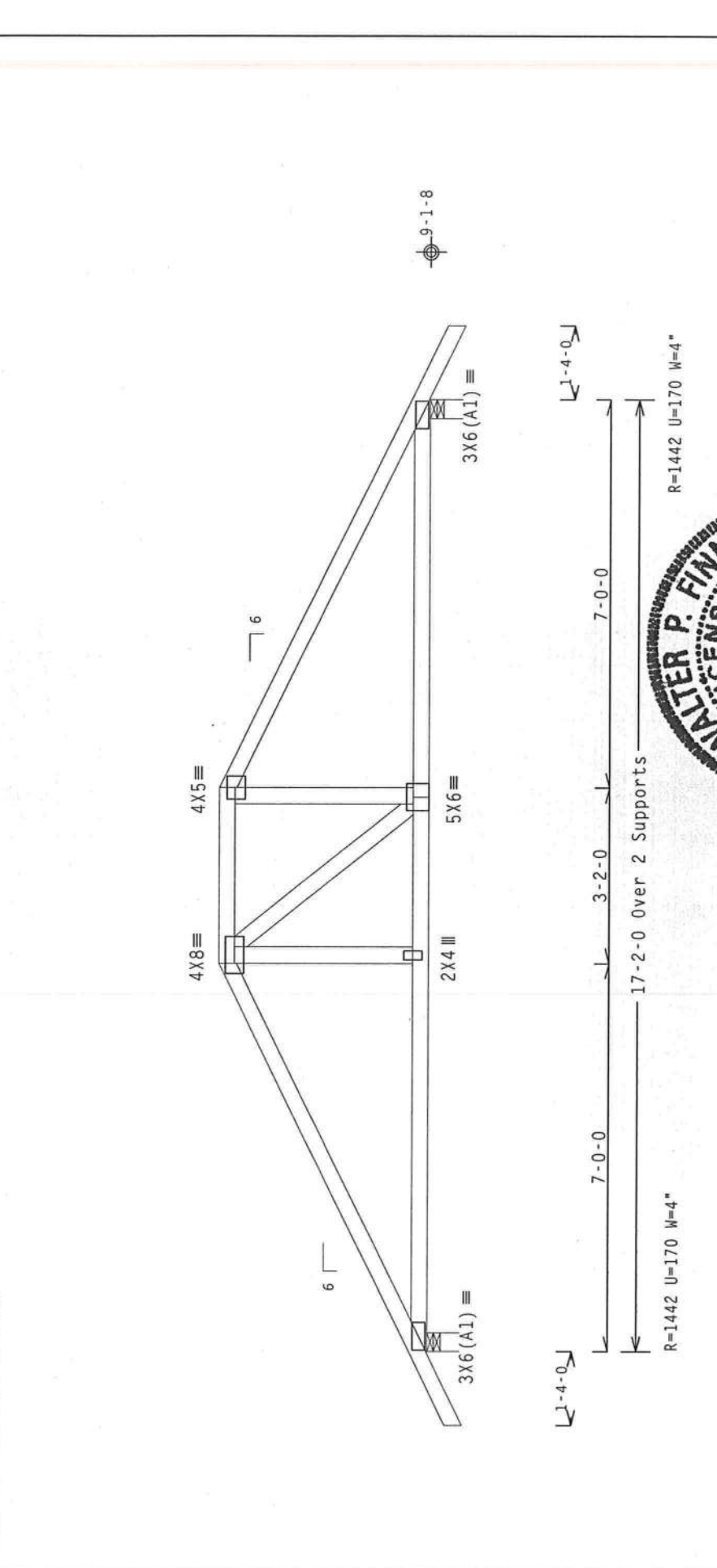
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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. Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

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

#1 hip supports 7'-0" jacks with no webs.



PLT TYP. Wave

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

Scale = .375" / Ft.

REF R487-- 81741
DATE 05/16/12
DRW HCUSR487 12137048
HC-ENG JB/WPF
SEQN- 95258
JREF- 1UM4487_Z03

10-03-11-0208-20
NO-22839

WALTER P. FINN
LICENSE
STATE OF FLORIDA
PROFESSIONAL ENGINEER

05/16/2012

17-0-0 3-2-0 7-0-0
17-2-0 Over 2 Supports
R=1442 U=170 W=4"

1'-4'-0" 1'-4'-0"

3X6 (A1) 2X4 5X6 4X8 4X5 3X6 (A1)

6 6

9-1-8

1'-4'-0"

IMPORTANT-- FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing and shoring. Top chord shall have properly attached structural sheathing and batt insulation. Trusses shall be braced in accordance with the manufacturer's instructions. Trusses shall have bracing installed per BCSI sections B3.87 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design shown on this drawing. The user of this drawing shall be responsible for any deviation from the design shown on this drawing. The user of this drawing shall be responsible for any deviation from the design shown on this drawing. The user of this drawing shall be responsible for any deviation from the design shown on this drawing.

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

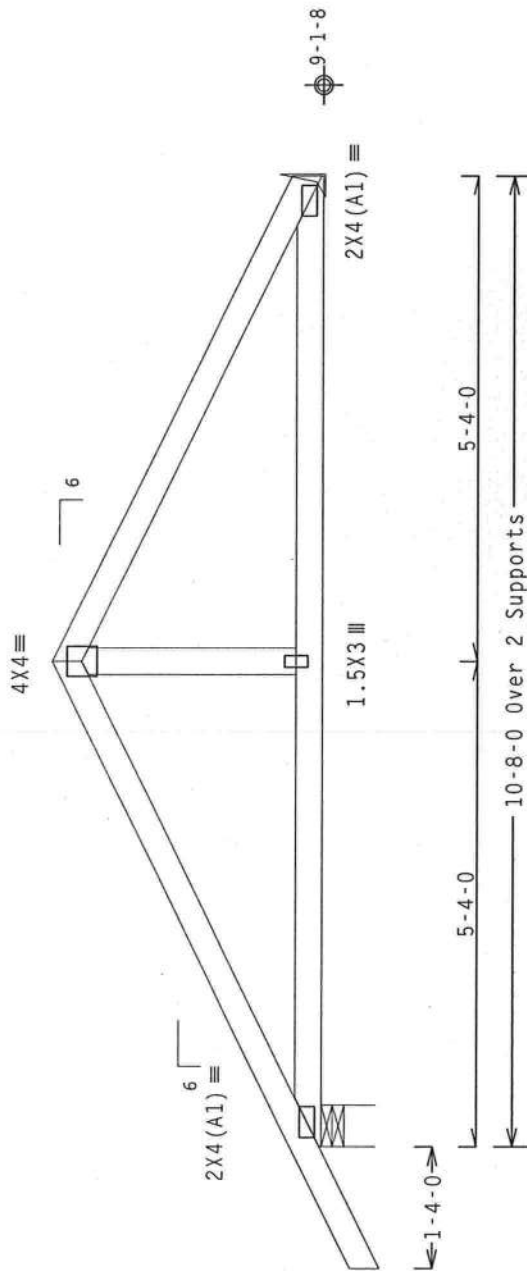
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

120 mph wind. 15.00 ft mean hgt. ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

These support conditions used at bearings indicated
(H1) = Simpson LUS24 w/ (1)2x4 SP #1 supporting member.
(4) 0.148"x3" nails into supporting member.
(2) 0.148"x3" nails into supporting member.

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



R=536 U=65 W=5.5"
RL=68/-76

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

FL/-/4/-/-/R/-/- Scale = .5"/Ft.

10:03. No. 22829

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

These require extreme care in fabricating, handling, shipping, installing and bracing. Ropes and cables must be installed in accordance with the applicable codes (such as the International Brotherhood of Fire and Marine Workers' Code of Practice for Ropes and Cables) and the manufacturer's instructions. The following practices prior to performing these functions are required:

- The ropes and cables must be properly stored and protected from damage.
- The ropes and cables must be properly inspected and tested prior to use.
- The ropes and cables must be properly attached to the structure and bracing.
- The ropes and cables must be properly braced and supported.
- The ropes and cables must be properly secured and fastened.
- The ropes and cables must be properly labeled and identified.
- The ropes and cables must be properly maintained and replaced as needed.
- The ropes and cables must be properly disposed of when no longer needed.

[illegible]

05/16/2012

ALPINE

Haines City, FL 33844
 FL COA #0 278

JREF- 1UM4487 Z03

TC LL	20.0 PSF	REF R487 - - 81742
TC DL	10.0 PSF	DATE 05/16/12
BC DL	10.0 PSF	DRW HCUR487 12137024
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT.LD.	40.0 PSF	SEQN- 95237
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1UM4487_Z03

(12-089--BRYAN ZECHER Garrison Res. --, ** - H5D 10'8" Steppedown Hip Girder)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

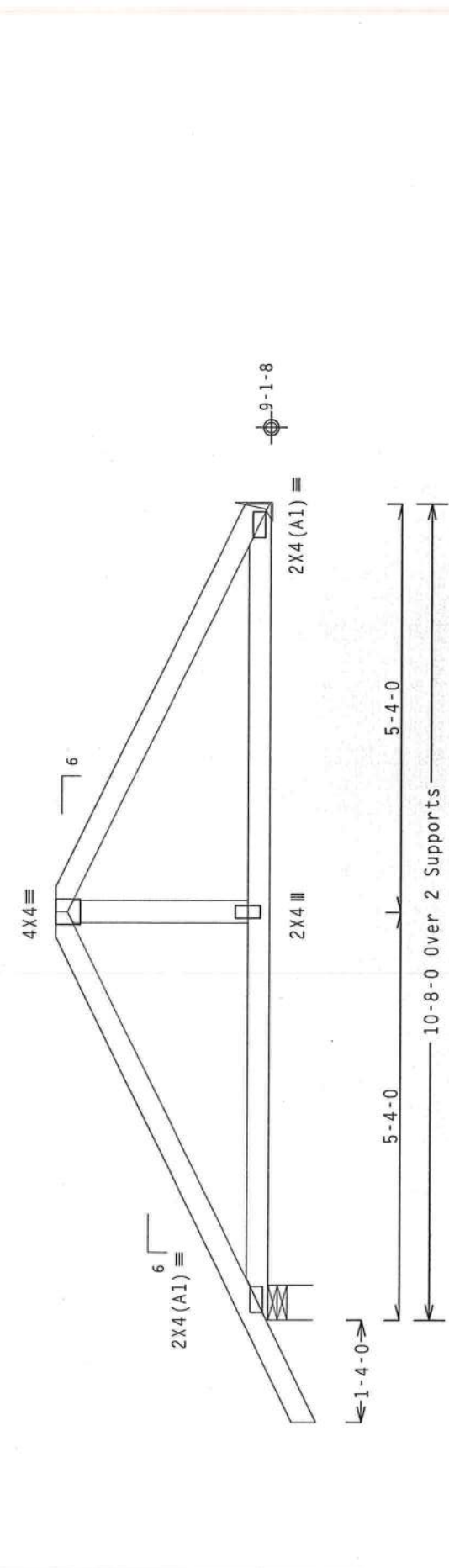
H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

#1 hip supports 5-0-0 jacks with no webs.

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

These support conditions used at bearings indicated
(H1) = Simpson LUS24 w/ (1)2x4 SP #1 supporting member.
(4) 0.148"x3" nails into supporting member.
(2) 0.148"x3" nails into supported member.

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



W=68 H=Simpson LUS24
Supporting Member Face: (2) 0.148"x3" nails
Supported Member Face: (4) 0.148"x3" nails
Number : (1) 2x4 SP #1

R=754 U=97 W=5.5"

PLT TYP. Wave	1003 No. 22839	1003 No. 22839	FL / - / 4 / - / - / R / -	Scale = .5" / Ft.
		TC LL	20.0 PSF	REF R487 -- 81743
		TC DL	10.0 PSF	DATE 05/16/12
		BC DL	10.0 PSF	DRW HCUSR487 12137049
		BC LL	0.0 PSF	HC-ENG JB/WPF
		TOT.LD.	40.0 PSF	SEQN - 96052
		DUR.FAC.	1.25	
		SPACING	24.0"	JREF - 1UM4487_Z03

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

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSP (Building Component Safety Information, by TPI and WCA) for proper erection and bracing. Trusses shall be braced in accordance with the BCSP. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSP sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design shown. The truss is shown in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Join Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This Job's General Notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org



ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Left end vertical not exposed to wind pressure.

Roof overhang supports 2.00 psf soffit load.

These support conditions used at bearings indicated
(W1) = Simpson LUS24 w/ (1)2x4 SP #1 supporting member.
(4) 0.148"x3" nails into supporting member.
(2) 0.148"x3" nails into supported member.

Bottom chord checked for 10.00 psf non-concurrent live load.

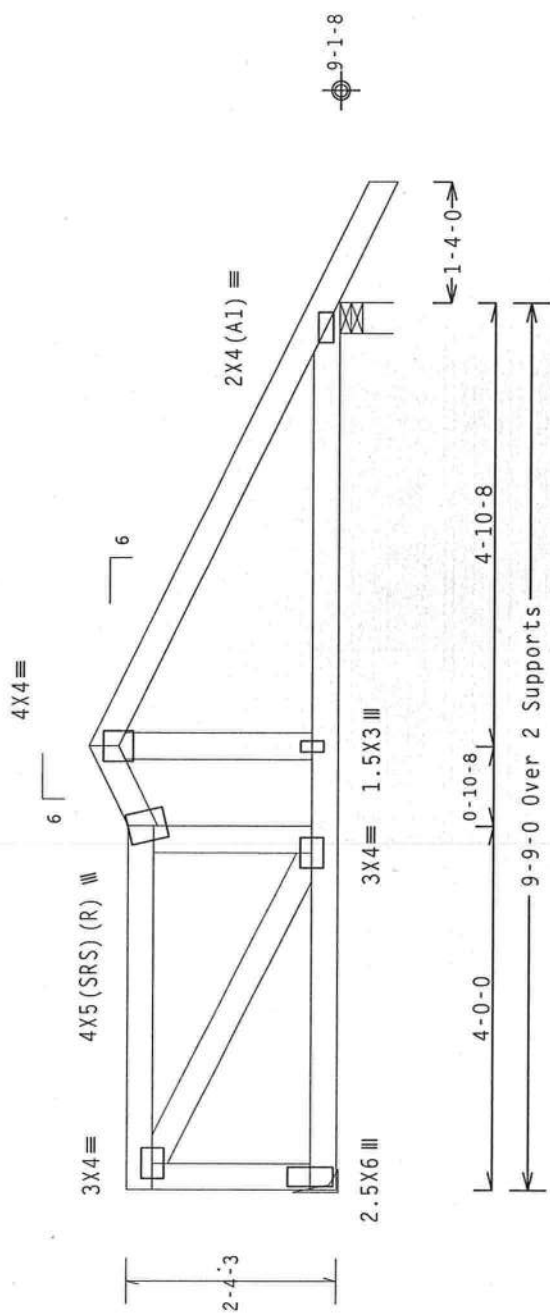
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpl (+/-)=0.18

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

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.



R=388 U=50
RL=38/-65 H-Simpson LUS24
Supported Member Face: (2) 0.148"x3" nails
Supporting Member Face: (4) 0.148"x3" nails
Supporting Member : (1) 2x4 SP #1

PLT TYP. Wave

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

FL/-/4/-/-/R/-
Scale =.5"/Ft.

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.		05/16/2012	
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Read and follow the latest edition of BCSI (Building Component Safety Information, by TPI and MTCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall be properly braced during installation. Trusses shall be braced during installation. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.		05/16/2012	
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this drawing or cover page listing this drawing. Refer to drawings 160A-2 for standard plate positions. A seal on this drawing or cover page listing this drawing. Indicates acceptance of professional engineering 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 of ITW-BCG. www.itwbcg.com, TPI: www.tpinet.org, MTCA: www.safetynet.com, ICC: www.iccsafe.org		05/16/2012	
	TC LL	20.0 PSF	REF	R487-- 81744
	TC DL	10.0 PSF	DATE	05/16/12
	BC DL	10.0 PSF	DRW	HCUSR487 12137025
	BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.		40.0 PSF	SEQN-	95273
DUR.FAC.		1.25	JREF-	1UM4487_Z03
SPACING		24.0"		

Top chord	2x4	SP	#1
Bot chord	2x4	SP	#1
Web	2x4	SP	#3

Roof overhang supports 2.00 psf soffit load.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Left side jacks have 3-0-0 setback with 0-0-0 cant and 1-4-0 overhang.
 End jacks have 3-0-0 setback with 0-0-0 cant and 1-4-0 overhang.
 Right side jacks have 3-0-0 setback with 0-0-0 cant and 1-4-0 overhang.

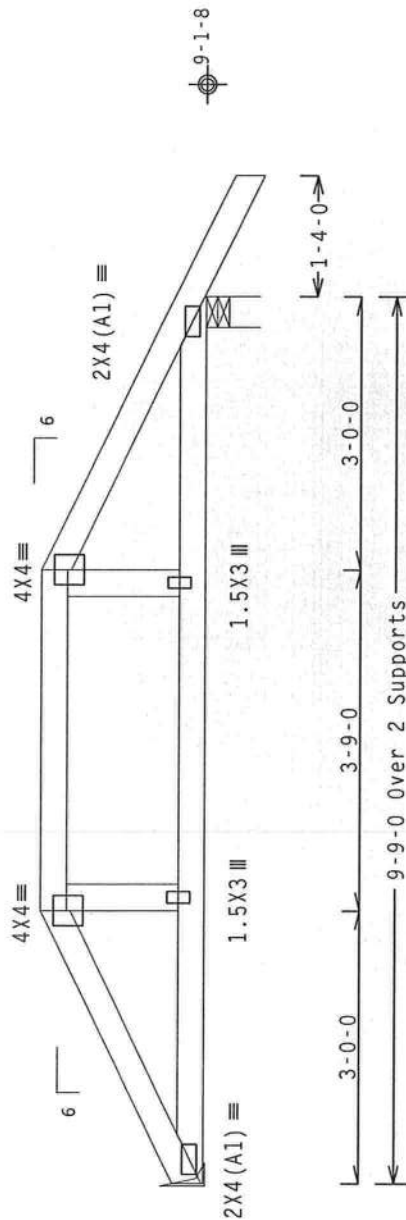
1120 mph wind, 15.00 ft mean ht, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

These support conditions used at bearings indicated
(H1) = Simpson LUS24 w/ (1)12x4 SP #1 supporting member.
(4) 0.148"x3" nails into supporting member.
(2) 0.148"x3" nails into supported member.

#1 hip supports 3-0-0 jacks with no webs.

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



R-438 U=39 H=Simpson LUS24
Supported Member Face: (2) 0.148"x3" nails
Supporting Member Face: (4) 0.148"x3" nails
Supporting Member : (1) 2x4 SP #1

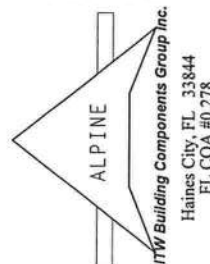
Design Crit: FBC2010Res/TPI-2007(Std)
FT/RT=20%(0%)/0(0)

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

These require extreme care in fabricating, handling, shaping, installing and bracing. The following practices are to be followed in the installation of these components: Safety Information, by PFI and WFLA, shall be read and followed. The following practices are to be performed: these functions shall be performed as noted otherwise, top chord shall have property attached structural sheathing and bottom chord shall have property attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSP sections B3, B7 or B10, as applicable.

[illegible]

PLT TYP. Wave



10:03 11.0209 20
OTM 1
FL/-/4/-/-/R/-

Scale = .5"/Ft.

REF R487-- 81745

DATE 05/16/12

ORW HCUSR487 12137050

HC-ENG JB/WPF

SEON- 95461

DUR.FAC.	1.25
----------	------

SPACING 24.0"

05/16/2012

REF- 1UM4487 Z03

(12-089--BRYAN ZECHER Garrison Res. -- , ** - F5H 17'2" Flat Girder)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

End verticals not exposed to wind pressure.

Girder supports 5-0-0 span to TC/BC split one face and 2-0-0 span to TC/BC split opposite face.

Truss must be installed as shown with top chord up.

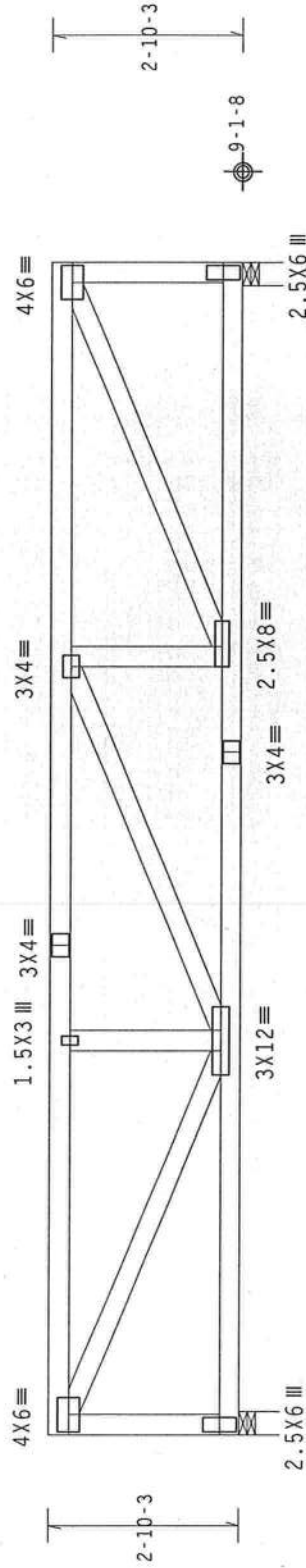
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS 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.

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.



17-2-0 Over 2 Supports
R=1237 U=135 W=4"

PLT TYP. Wave

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

Scale = .375"/Ft.

FL/-/4/-/R/-

QTY

10.03 No. 0399-30

1237

U=135 W=4"

REF R487-- 81746

DATE 05/16/12

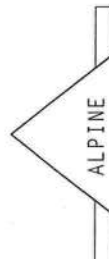
DRW HCUSR487 12137051

HC-ENG JB/WPF

SEQN- 95284

JREF- 1UM4487_Z03

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. The truss manufacturer shall be responsible for providing the contractor with all necessary information, including but not limited to, the following:
1. Truss layout and erection drawings.
2. Truss component safety information, by TPI and MTC.
3. Truss component safety information, by TPI and MTC.
4. Truss component safety information, by TPI and MTC.
5. Truss component safety information, by TPI and MTC.
6. Truss component safety information, by TPI and MTC.
7. Truss component safety information, by TPI and MTC.
8. Truss component safety information, by TPI and MTC.
9. Truss component safety information, by TPI and MTC.
10. Truss component safety information, by TPI and MTC.
11. Truss component safety information, by TPI and MTC.
12. Truss component safety information, by TPI and MTC.
13. Truss component safety information, by TPI and MTC.
14. Truss component safety information, by TPI and MTC.
15. Truss component safety information, by TPI and MTC.
16. Truss component safety information, by TPI and MTC.
17. Truss component safety information, by TPI and MTC.
18. Truss component safety information, by TPI and MTC.
19. Truss component safety information, by TPI and MTC.
20. Truss component safety information, by TPI and MTC.
21. Truss component safety information, by TPI and MTC.
22. Truss component safety information, by TPI and MTC.
23. Truss component safety information, by TPI and MTC.
24. Truss component safety information, by TPI and MTC.
25. Truss component safety information, by TPI and MTC.
26. Truss component safety information, by TPI and MTC.
27. Truss component safety information, by TPI and MTC.
28. Truss component safety information, by TPI and MTC.
29. Truss component safety information, by TPI and MTC.
30. Truss component safety information, by TPI and MTC.
31. Truss component safety information, by TPI and MTC.
32. Truss component safety information, by TPI and MTC.
33. Truss component safety information, by TPI and MTC.
34. Truss component safety information, by TPI and MTC.
35. Truss component safety information, by TPI and MTC.
36. Truss component safety information, by TPI and MTC.
37. Truss component safety information, by TPI and MTC.
38. Truss component safety information, by TPI and MTC.
39. Truss component safety information, by TPI and MTC.
40. Truss component safety information, by TPI and MTC.
41. Truss component safety information, by TPI and MTC.
42. Truss component safety information, by TPI and MTC.
43. Truss component safety information, by TPI and MTC.
44. Truss component safety information, by TPI and MTC.
45. Truss component safety information, by TPI and MTC.
46. Truss component safety information, by TPI and MTC.
47. Truss component safety information, by TPI and MTC.
48. Truss component safety information, by TPI and MTC.
49. Truss component safety information, by TPI and MTC.
50. Truss component safety information, by TPI and MTC.
51. Truss component safety information, by TPI and MTC.
52. Truss component safety information, by TPI and MTC.
53. Truss component safety information, by TPI and MTC.
54. Truss component safety information, by TPI and MTC.
55. Truss component safety information, by TPI and MTC.
56. Truss component safety information, by TPI and MTC.
57. Truss component safety information, by TPI and MTC.
58. Truss component safety information, by TPI and MTC.
59. Truss component safety information, by TPI and MTC.
60. Truss component safety information, by TPI and MTC.
61. Truss component safety information, by TPI and MTC.
62. Truss component safety information, by TPI and MTC.
63. Truss component safety information, by TPI and MTC.
64. Truss component safety information, by TPI and MTC.
65. Truss component safety information, by TPI and MTC.
66. Truss component safety information, by TPI and MTC.
67. Truss component safety information, by TPI and MTC.
68. Truss component safety information, by TPI and MTC.
69. Truss component safety information, by TPI and MTC.
70. Truss component safety information, by TPI and MTC.
71. Truss component safety information, by TPI and MTC.
72. Truss component safety information, by TPI and MTC.
73. Truss component safety information, by TPI and MTC.
74. Truss component safety information, by TPI and MTC.
75. Truss component safety information, by TPI and MTC.
76. Truss component safety information, by TPI and MTC.
77. Truss component safety information, by TPI and MTC.
78. Truss component safety information, by TPI and MTC.
79. Truss component safety information, by TPI and MTC.
80. Truss component safety information, by TPI and MTC.
81. Truss component safety information, by TPI and MTC.
82. Truss component safety information, by TPI and MTC.
83. Truss component safety information, by TPI and MTC.
84. Truss component safety information, by TPI and MTC.
85. Truss component safety information, by TPI and MTC.
86. Truss component safety information, by TPI and MTC.
87. Truss component safety information, by TPI and MTC.
88. Truss component safety information, by TPI and MTC.
89. Truss component safety information, by TPI and MTC.
90. Truss component safety information, by TPI and MTC.
91. Truss component safety information, by TPI and MTC.
92. Truss component safety information, by TPI and MTC.
93. Truss component safety information, by TPI and MTC.
94. Truss component safety information, by TPI and MTC.
95. Truss component safety information, by TPI and MTC.
96. Truss component safety information, by TPI and MTC.
97. Truss component safety information, by TPI and MTC.
98. Truss component safety information, by TPI and MTC.
99. Truss component safety information, by TPI and MTC.
100. Truss component safety information, by TPI and MTC.



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278



05/16/2012

Top chord 2x4 SP #1
Bot chord 2x6 SP M-26
Webs 2x4 SP #3: W1, W4, W14, W17 2x4 SP #1:
:W2, W16 2x6 SP #2:

Special loads
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 60 plf at 0.00 to 60 plf at 17.17
BC- From 10 plf at 0.00 to 10 plf at 17.17
BC- 1523.80 lb Conc. Load at 0.44, 2.44, 10.44, 12.44
14.44, 16.44
BC- 1416.19 lb Conc. Load at 4.44, 6.44, 8.44

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

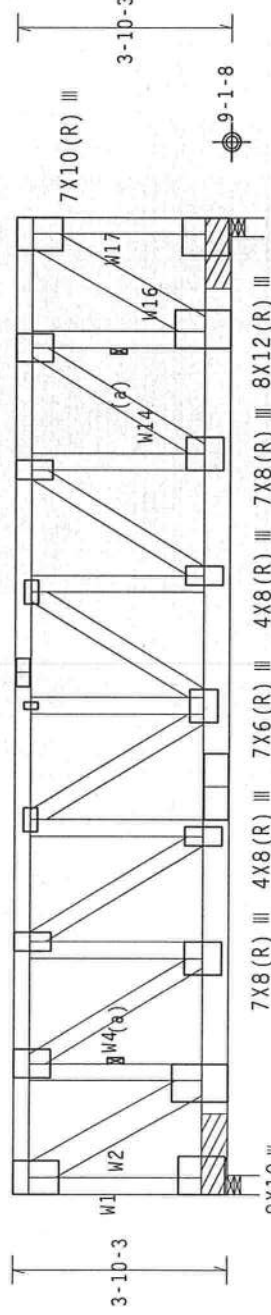
Max JT VERT DEFL: LL: 0.17" DL: 0.25" recommended camber 3/8"

Bottom chord checked for 10.00 psf non-concurrent live load.

Truss must be installed as shown with top chord up.

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.

7X10 (R) III 6X8 (R) III 4X8 (R) III 1.5X3 III 3X5 III 3X5 III 4X8 (R) III 6X8 (R) III 7X10 (R) III



8X10 III 7X8 (R) III 4X8 (R) III 7X6 (R) III 4X8 (R) III 7X8 (R) III 8X12 (R) III 8X10 III SS0514 III

17-2-0 Over 2 Supports

R=7373 U=937 W=4"

PLT TYP. 18 Gauge HS.Wave

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

Scale = .3125"/Ft.

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!		★ STATE OF FLORIDA PROFESSIONAL ENGINEER 22839 WALTER R. FINN 05/16/2012	REF R487-- 81747	
	IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.			DATE 05/16/12	
	Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Read the latest edition of BCSI (Building Component Safety) Information, by TPI and WCAI 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 shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.			DRW HCUSR487 12137052	
	ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the client. For more information see: This Job's general notes page. ITW-866: www.itwbcg.com; TPI: www.tpiinc.org; WCAI: www.wcaiindustry.com; ICC: www.iccsafe.org			HC-ENG JB/WPF	
				SEQN- 96055	
				JREF- 1UM4487_Z03	
				JREF - 1UM4487_Z03	

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

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=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

End verticals not exposed to wind pressure.

Left and right cantilevers are not exposed to wind

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Left side jacks have 5'-0" setback with 1'-8" cant and 1'-4" overhang.

End jacks have 5'-0" setback with 1'-8" cant and 1'-4" overhang.

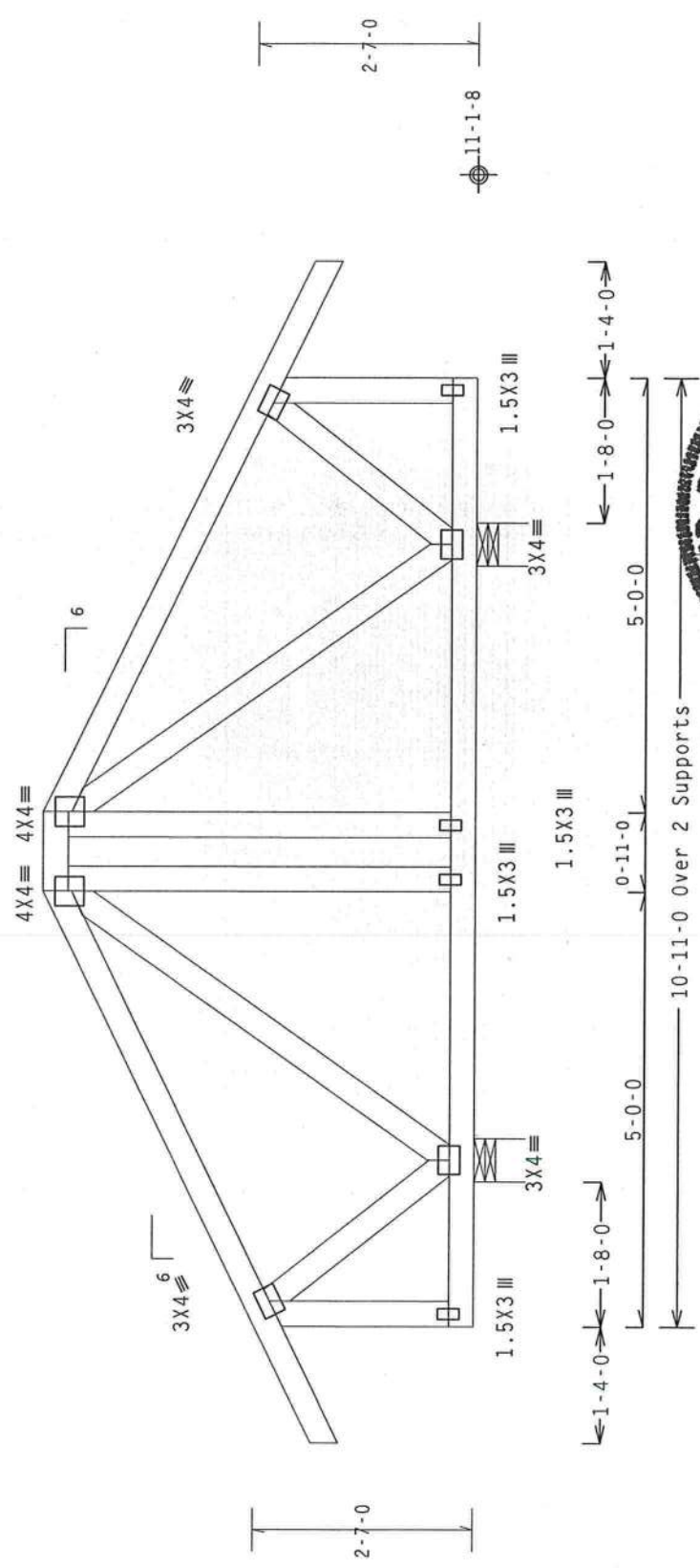
Right side jacks have 5'-0" setback with 1'-8" cant and 1'-4" overhang.

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

Roof overhang supports 2.00 psf soffit load.

#1 hip supports 5'-0" jacks to BC.

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



R=580 U-79 W=6"

PLT TYP. Wave

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

Professional Engineer Seal for Walter P. Finn, State of Florida, License No. 22839, dated 05/16/2012.

FL / - / 4 / - / - / R / -	Scale = .5" / Ft.
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"
REF	R487-- 81748
DATE	05/16/12
DRW	HCUSR487 12137063
HC-ENG	JB/WPF
SEON	95349
JREF	1UM487_Z03

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

IMPORTANT: Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and AISC) for proper erection and bracing details. Trusses shall be erected and braced in accordance with the design shown. The suitability and use of this design for any structure is the responsibility of the building official. For more information see: This Job's general notes page: ITW-BCSI: www.itwbsci.com; TPI: www.tpinet.org; AISC: www.aisc.org

ALPINE logo and ITW Building Components Group Inc. contact information: Haines City, FL 33844, FL COA #0278.

Top	chord	2x4	SP	#1
Bot	chord	2x4	SP	#1

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

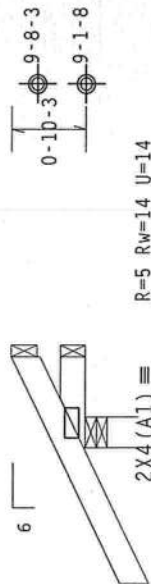
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

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

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

R=-56 RW=27 U=51



R=5 RW=14 U=14

1-0-0 Over 3 Supports

R=254 U=54 W=4"
RL=30/-23

PLT TYP. Wave

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

Scale = .5"/Ft.

TC LL	20.0	PSF	REF R487-- 81749
TC DL	10.0	PSF	DATE 05/16/12
BC DL	10.0	PSF	DRW HCUR487 12137026
BC LL	0.0	PSF	HC-ENG JB/WPF
TOT.LD.	40.0	PSF	SEQN- 95048
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1UM4487_Z03

No. 22839

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

Tresses require extreme care in fabricating, handling, shipping, installing and bracing. To follow the latest edition of RCSD Building Requirements, installers shall provide a written statement of practices prior to performing these functions. Installers shall provide a written statement of practices noted otherwise. Top chord shall have property attached structural sheathing and bottom chord shall have a property attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per RCSD sections B3, B7 or B10, as applicable.

[illegible]

05/16/2012

JREF- 1UM4487 703



TW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

(12-089--BRYAN ZECHER Garrison Res. -- . ** - CJ1 1' Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

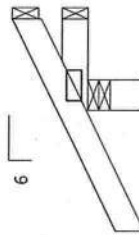
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

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

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

R=-41 Rw=22 U=39



R=7 Rw=13 U=11

1-4-0
1-0-0 over 3 supports

R=222 U=44 W=4"
RL=28/-21

PLT TYP. Wave

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

Scale =.5"/Ft.

10403.No.022839

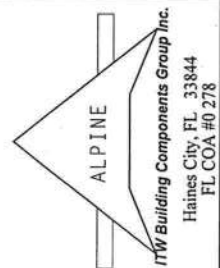
QTY 6

FL/-/4/-/-/R/-

TC LL	20.0 PSF	REF	R487--	81750
TC DL	10.0 PSF	DATE	05/16/12	
BC DL	10.0 PSF	DRW	HCUSR487	12137027
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	40.0 PSF	SEQN	95217	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1UM4487_Z03	



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for safety instructions prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall be properly attached to the building structure. Locations shown for permanent bracing shall have bracing installed per BCSI sections 82, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the job. Details, unless noted otherwise, Refer to drawings 160A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. ITWBCG does not warrant the design for any other use.
general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinc.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org



(12-089--BRYAN ZECHER Garrison Res. -- , ** - CJ1S 1' Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

Roof overhang supports 2.00 psf soffit load.

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

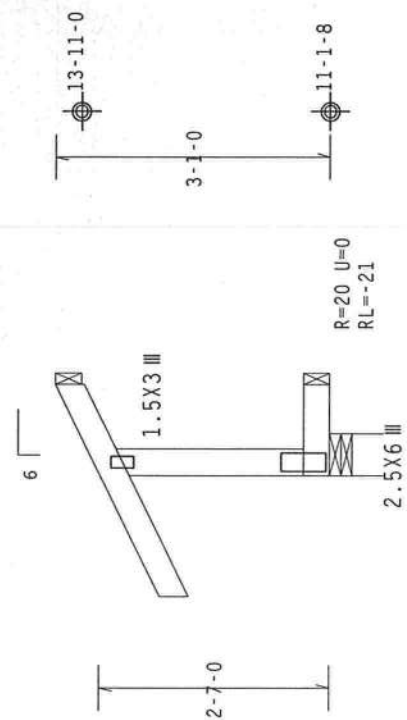
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

R=-28 Rw=29 U=54
RL=46/-42



1-4-0
1-0-0 over 3 supports
R=190 U=56 W=5.5"

PLT TYP. Wave

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

FL/-4/-/-R/- Scale =.5"/Ft.

 ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	10.03. No 022889		10TY	10.03. No 022889	10TY	10.03. No 022889	10TY	10.03. No 022889	10TY
	WALTER P. FINN		LICENSE	WALTER P. FINN	LICENSE	WALTER P. FINN	LICENSE	WALTER P. FINN	LICENSE
	STATE OF FLORIDA		PROFESSIONAL ENGINEER	STATE OF FLORIDA	PROFESSIONAL ENGINEER	STATE OF FLORIDA	PROFESSIONAL ENGINEER	STATE OF FLORIDA	PROFESSIONAL ENGINEER
	05/16/2012			05/16/2012		05/16/2012		05/16/2012	
	JREF- 1UM4487_Z03			JREF- 1UM4487_Z03		JREF- 1UM4487_Z03		JREF- 1UM4487_Z03	
TYP. REF		TYP. REF		TYP. REF		TYP. REF		TYP. REF	
TC LL		TC LL		TC LL		TC LL		TC LL	
20.0 PSF		20.0 PSF		20.0 PSF		20.0 PSF		20.0 PSF	
REF R487-- 81751		REF R487-- 81751		REF R487-- 81751		REF R487-- 81751		REF R487-- 81751	
DATE 05/16/12		DATE 05/16/12		DATE 05/16/12		DATE 05/16/12		DATE 05/16/12	
DRW HCUSR487 12137028		DRW HCUSR487 12137028		DRW HCUSR487 12137028		DRW HCUSR487 12137028		DRW HCUSR487 12137028	
HC-ENG JB/WPF		HC-ENG JB/WPF		HC-ENG JB/WPF		HC-ENG JB/WPF		HC-ENG JB/WPF	
SEQN- 95332		SEQN- 95332		SEQN- 95332		SEQN- 95332		SEQN- 95332	
DUR.FAC. 1.25		DUR.FAC. 1.25		DUR.FAC. 1.25		DUR.FAC. 1.25		DUR.FAC. 1.25	
SPACING 24.0"		SPACING 24.0"		SPACING 24.0"		SPACING 24.0"		SPACING 24.0"	

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WPCA) recommendations for performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, all trusses shall be braced in accordance with BCSI. Trusses shall have a properly attached rigid ceiling. Locations shown for bracing shall be braced in accordance with BCSI sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the any failure to build the truss in accordance with ANSI/TPI 1 for handling, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Join drawing or cover page listing this drawing. Indicates acceptance of professional engineering 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 BCSI: www.bcsinfo.org ITW BCG: www.itwbcg.com; TPI: www.tpiinc.org; WPCA: www.wpcaindstry.com; ICC: www.iccsafe.org

(12-089--BRYAN ZECHER Garrison Res. -- . ** - CJ3 3' Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1

Roof overhang supports 2.00 psf soffit load.

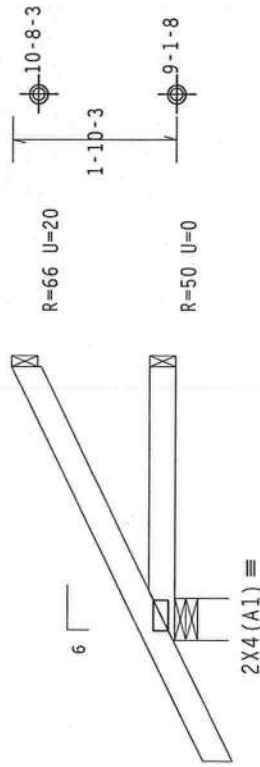
Bottom chord checked for 10.00 psf non-concurrent live load.

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

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=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

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

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



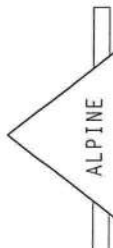
1'-4'-0" $\rightarrow$
3'-0'-0" Over 3 Supports $\rightarrow$

R=244 U=26 W=5.5"
RL=52/-26

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

PLT TYP. Wave

Scale = .5" / Ft.

 ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0 278	10.03. No. 0309839		QTY 3	FL / - / 4 / - / - / R / -	TC LL	20.0	PSF	REF R487--	81752		
	10.03. No. 0309839				TC DL	10.0	PSF	DATE	05/16/12		
	10.03. No. 0309839				BC DL	10.0	PSF	DRW	HCUSR487 12137029		
	10.03. No. 0309839				BC LL	0.0	PSF	HC-ENG	JB/WPF		
	10.03. No. 0309839				TOT.LD.	40.0	PSF	SEQN-	95222		
DUR.FAC. 1.25					JREF- 1UM4487_Z03						
SPACING 24.0"											



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

****IMPORTANT****
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCCI (Building Component Safety Information, by TPI and MICA) for safety instructions prior to performing these functions. Installers shall provide temporary bracing per BCCI. Untreated wood shall be protected with a preservative. Properly attached structural sheathing and bottom chord bracing shall be installed prior to erecting the truss. Trusses shall be braced laterally and restrained against lateral movement. Trusses shall have bracing installed per BCCI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design shown. Any failure to build the truss in accordance with ANSI/TPI 1 for handling, installation, bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This job's general notes page. ITW-BCG: www.itwbcg.com; TPI: www.tpiinc.org; MICA: www.sbcindustry.com; ICC: www.iccsafe.org

05/16/2012

(12-089--BRYAN ZECHER Garrison Res. -- ** - CJ31 3' Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Bottom chord checked for 10.00 psf non-concurrent live load.

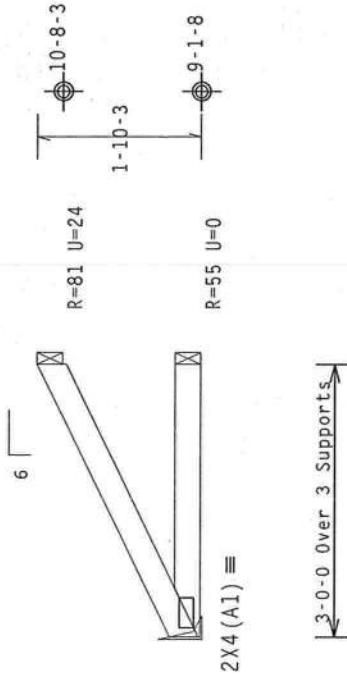
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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=5.0 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18

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

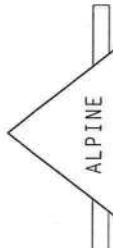
These support conditions used at bearings indicated
(H1) = Simpson LUS24 w/ (1)2x4 SP #1 supporting member.
(4) 0.148"x3" nails into supporting member.
(2) 0.148"x3" nails into supported member.

Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



R=129 U=2
RL=36 H=Simpson LUS24
Supported Member Face: (2) 0.148"x3" nails
Supporting Member Face: (4) 0.148"x3" nails
Supporting Member : (1) 2x4 SP #1
Design chgt: FB2010Res/TPI-2007 (STD)
FT/RT=20%(0%)/0(0)

PLT TYP. Wave



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of ICCI Building Component Safety Information, by TPI and WTCI for details and instructions. Installers shall provide temporary bracing per ICCI requirements. Trusses shall be braced and secured for permanent lateral restraint shall have a properly attached rafter ceiling. Locations shown for permanent lateral restraint shall have bracing installed per ICCI sections 83, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this design. 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 or ITW-BCG: www.itwbcg.com; TPI: www.tpiinc.org; WTCI: www.wtcindustry.com; ICCI: www.iccsafe.org



FL/-/4/-/-/R/-		Scale = 5"/Ft.	
TC LL	20.0 PSF	REF	R487-- 81753
TC DL	10.0 PSF	DATE	05/16/12
BC DL	10.0 PSF	DRW	HCUSR487 12137030
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN-	95060
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	JUM4487_Z03

Top chord	2x4	SP	#1
Bot chord	2x4	SP	#1
Webs	2x4	SP	#3

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Bottom chord checked for 10.00 psf non-concurrent live load.

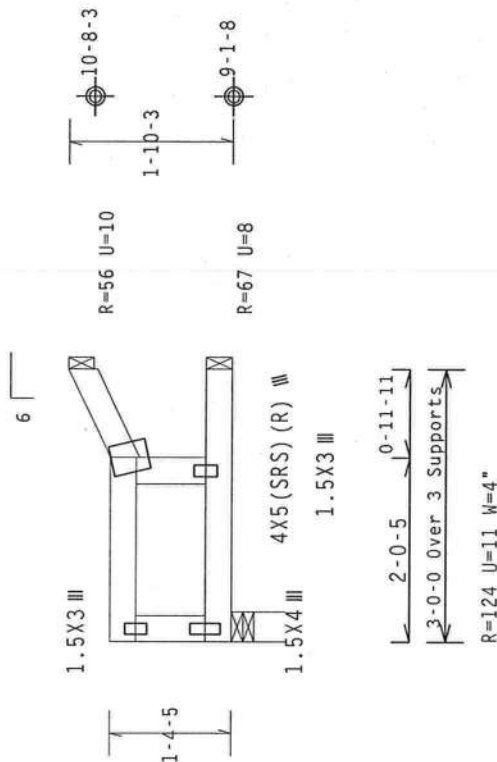
Fasten rated sheathing to one face of this frame.

1120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS 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.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



PLT TYP. Wave

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

FL/-/4/-/-/R/- Scale = .5"/Ft.

TC LL	20.0	PSF	REF R487-- 81754
TC DL	10.0	PSF	DATE 05/16/12
BC DL	10.0	PSF	DRW HCUR487 12137031
BC LL	0.0	PSF	HC-ENG JB/WPF
TOT.LD.	40.0	PSF	SEQN- 95130
DUR.FAC.	1.25		
SPACING	24.0"		JREF- 1UM4487_Z03

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

****IMPORTANT****

Trusses require extreme care in fabricating, handling, unspooling, installing and bracing. The following information is provided for the user's convenience and safety. For full and complete information, refer to the Rigid Truss Company's Safety Manual, Form R-101 and R-102. Rigid Trusses are designed to be installed in a vertical position. The following instructions are for the installation of Rigid Trusses in a horizontal position. The following instructions are for the installation of Rigid Trusses in a horizontal position. The following instructions are for the installation of Rigid Trusses in a horizontal position.

[illegible]

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

05/16/2012

(12-089--BRYAN ZECHER Garrison Res. -- ** - C33S 3' Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

Roof overhang supports 2.00 psf soffit load.

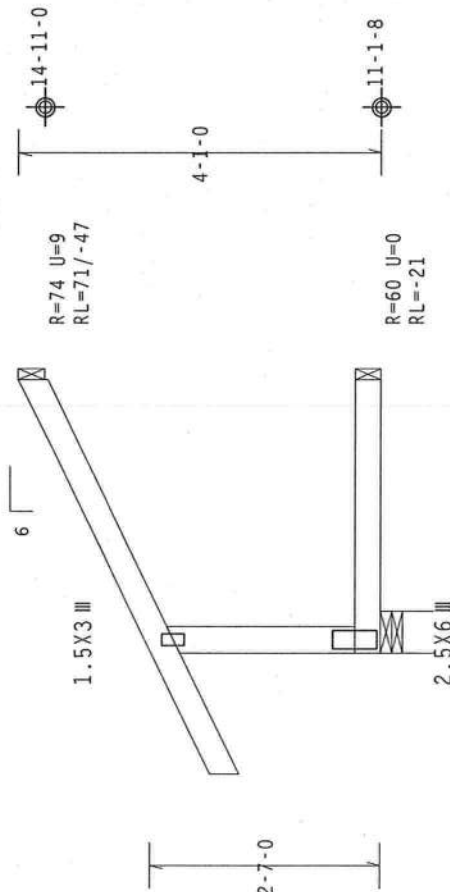
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



1'-4-0
3'-0-0 Over 3 Supports
R=232 U=61 W=5.5"

PLT TYP. Wave

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

Scale = .5" / Ft.

FL / - / 4 / - / R / -

10.03.11.0299.28
No. 22839

QTY 2

REF R487-- 81755

DATE 05/16/12

DRW HCUSR487 12137032

HC-ENG JB/WPF

SEQN - 95335

JREF - 1UM4487_Z03

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.

Follow the latest edition of BC31 (Building Component Safety Information, by TPI and WCA).

Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom

chord shall have bracing installed per BC31 sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from

any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing

bracing of trusses. Apply plates to each face of truss and position as shown above and on the

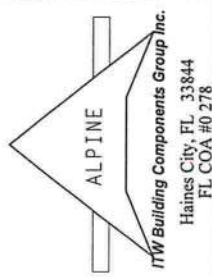
details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on

drawing or cover page listing this drawing, indicates acceptance of professional engineering

responsibility of the Building Components Group Inc. for the design and use of this structure.

General notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; WCA: www.wcaindustry.com;

ICC: www.iccsafe.org



(12-089--BRYAN ZECHE Garrison Res. -- , ** - C3JT 3' Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

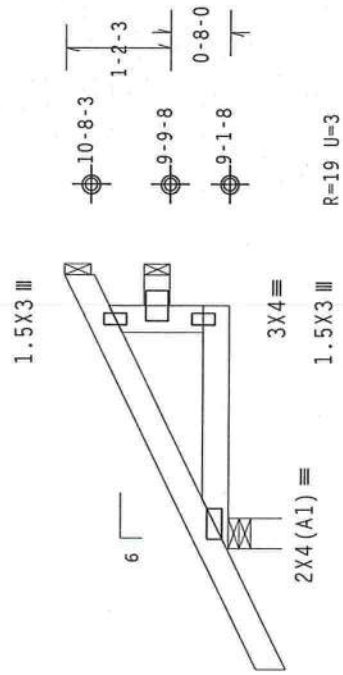
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

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=5.0 psf, wind BC DL=5.0 psf. GCpf(+/-)=0.18

Wind loads and reactions based on MWFRS 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=73 U=14



1-4-0

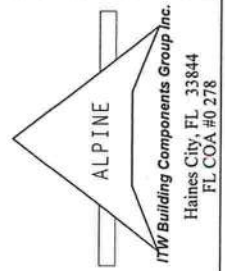
3'-0" live load support 4'-0"

R=244 U=26 W=4"
RL=52/-26

PLT TYP. Wave	Design Crit: FBC2010Res/TPI-2007 (STD) FT/RT=20%(0%)/0(0)	10.003.1NO22839	FL/-4/-/-R/-	Scale = .5"/Ft.
			TC LL	20.0 PSF
			TC DL	10.0 PSF
			BC DL	10.0 PSF
			BC LL	0.0 PSF
			TOT.LD.	40.0 PSF
			DUR.FAC.	1.25
			SPACING	24.0"
			REF	R487-- 81757
			DATE	05/16/12
			DRW	HCUSR487 12137062
			HC-ENG	JB/WPF
			SEQN	95470
			JREF	1UM487_Z03



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for proper practices and details. Trusses shall be installed in accordance with the BCSI and WCA manuals. Unless noted otherwise, top chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this drawing or cover page listing this drawing. Refer to drawings 160A-Z for standard plate positions. A seal on this drawing or cover page listing this drawing. Indicates acceptance of professional engineering. The responsibility for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This Job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org



Top	chord	2x4	SP	#1
Bot	chord	2x4	SP	#1

Roof overhang supports 2.00 psf soffit load.

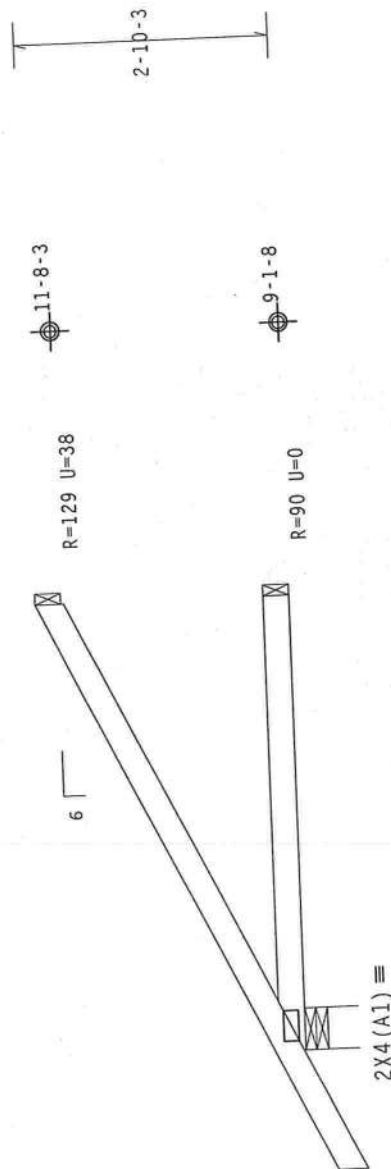
checked for 10.00 psf non-concurrent live load.

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

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCDF (+/-)=0.18

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

provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



$\leftarrow 1-4-0 \rightarrow$
 $\leftarrow 5-0-0$ Over 3 Supports $\rightarrow$
 $R=316 \quad U=27 \quad W=5.5"$
 $RL=77/-32$

Design Crit: FBC2010Res/TPI-2007(STD)
ET/PT=20%(0%)/0(0)

FILE IN LOW (ON) NOTES ON THIS SHEET

[illegible][illegible]

PLOT TYP. Wave

ALPINE

Building Components Group Inc.

Haines City, FL 33844

WALTER P. FINN
LICENSE
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 22839
10-03-11 0208 20
and
BESL
chered
This job's

$$\text{scale} = .5"/\text{ft.}$$

OFF R487-- 81758

DATE 05/16/12

ORW HCUSR487 12137034

HC-ENG JB/WPF

SFON- 95225

101.25
DUP EAC 1 25

CONTACT 24 0"

05/16/2012

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 II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Provide (2) 16d common nails (0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails (0.162"x3.5"), toe nailed at Bot chord.



Scale = .5"/Ft.

85077-0N

REF R487-- 81759

DATE 05/16/12

DRW HCUSR487 12137035

HC-ENG JB/WPF

SEON- 95134

JREF- 1UM4487 Z03

WTW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

(12-089--BRYAN ZECHER Garrison Res. -- ** - CJST 5' Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

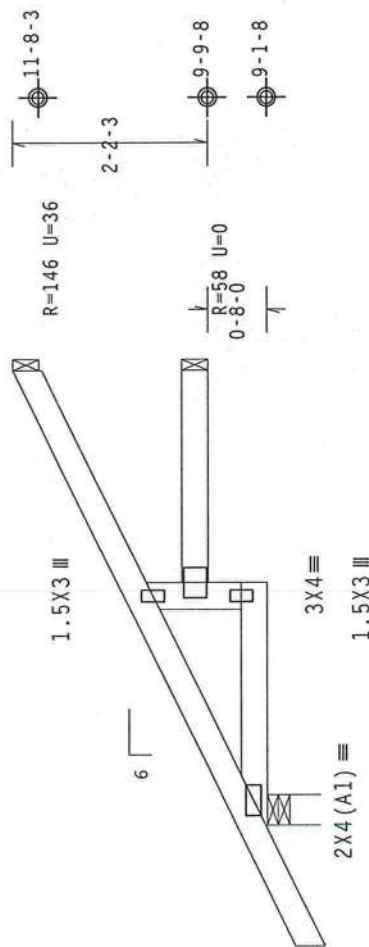
Bottom chord checked for 10.00 psf non-concurrent live load.

Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide { 2 } 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge. RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS 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

2-8-0
5-0-0 Over 3 Supports
2-4-0

R=316 U=27 W=4"
RL=77/-32

Design Crit: FBC2010Res/TPI-2007 (STR)
FT/RT=20%(0%) / 0(0)

PLT TYP. Wave

Scale = 5" / Ft.

FL / - / 4 / - / - / R / -

QTY 2

10.03.11 0208.20
No. 22839

Design Crit: FBC2010Res/TPI-2007 (STR)
FT/RT=20%(0%) / 0(0)

PLT TYP. Wave

Scale = 5" / Ft.

FL / - / 4 / - / - / R / -

QTY 2

10.03.11 0208.20
No. 22839

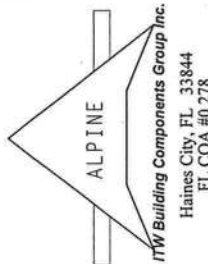
Design Crit: FBC2010Res/TPI-2007 (STR)
FT/RT=20%(0%) / 0(0)

PLT TYP. Wave

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!

IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall have properly attached structural sheathing and bolts shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSI sections 83, 87 or 810, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any of the above conditions or for any damage to the building or its contents caused by the use of the truss system. ITWBCG shall not be responsible for the design of the building or its contents. 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: ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF	R487--	81760
TC DL	10.0 PSF	DATE	05/16/12	
BC DL	10.0 PSF	DRW	HCSR487	12137036
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	40.0 PSF	SEQN	95474	
DUR.FAC.	1.25			
SPACING	24.0"	JREF	1UM4487_Z03	

05/16/2012

Top	chord	2x4	SP	#1
Bot	chord	2x4	SP	#1
	webs	2x4	SP	#3

1120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind Loads and reactions based on MWFRS with additional C&C member design.

These support conditions used at bearings indicated
(H1) = Simpson LUS24 w/ (1)2x4 SP #1 supporting member.
(4) 0.148"x3" nails into supporting member,
(2) 0.148"x3" nails into supported member.

Truss must be installed as shown with top chord up.

Special loads

----- (Lumber		Dur.Fac.=1.25 /	Plate	Dur.Fac.=1.25)
TC-	From	60 plf at 0.00	to	60 plf at 7.00
BC-	From	20 plf at 0.00	to	20 plf at 7.00
BC-	437.46 lb	Conc. Load at		5.06

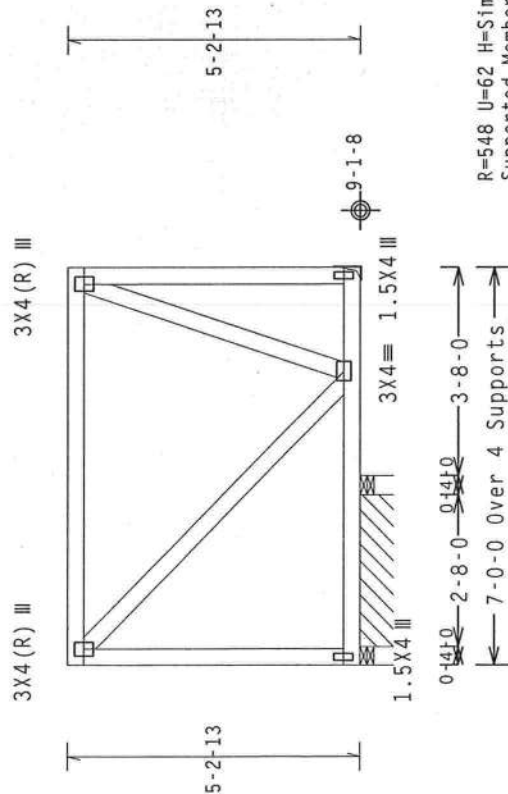
End verticals not exposed to wind pressure.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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.

The TC of this truss shall be braced with attached spans at 24" OC in lieu of structural sheathing.



9=317 11=83 W=4"

R=42 PLF U=0 PLF W=2-8-0

R=110 U=0 W=4"

R=548 U=62 H=Simpson LUS24
Supported Member Face: (2) 0.148"x3" nails
Supporting Member Face: (4) 0.148"x3" nails
Supporting Member : (1) 2x4 SP #1

PLT TYP. Wave

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

10.03.16029839

FL1-141-1-1R1-

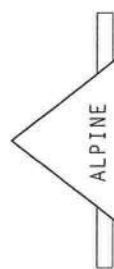
$$\text{Scale} = .3125"/\text{ft.}$$

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

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

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. If the trusses are not to be braced, the manufacturer shall be notified. If the manufacturer has not noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have properly attached structural sheathing. Trusses shall be braced laterally and longitudinally in accordance with BCSI sections 83, 87 and 810, as applicable.

The Building Components Group Inc. (TBGCO) shall not be responsible for any deviation from this drawing unless it is specifically noted as such. TBGCO shall not be responsible for the design or detailing of framing of trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering 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/WPI 1 Sec.2. For more information see: This job's general notes page; TB-BGC, www.tbwgco.com; TBI-WPI, www.tbipnstn.org; MTCA, www.socindustries.com;



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278



05/16/2012

JREF- 1UM4487 Z03

(12-089--BRYAN ZECHER Garrison Res. -- , ** - EJ5S 5' End Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

Roof overhang supports 2.00 psf soffit load.

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

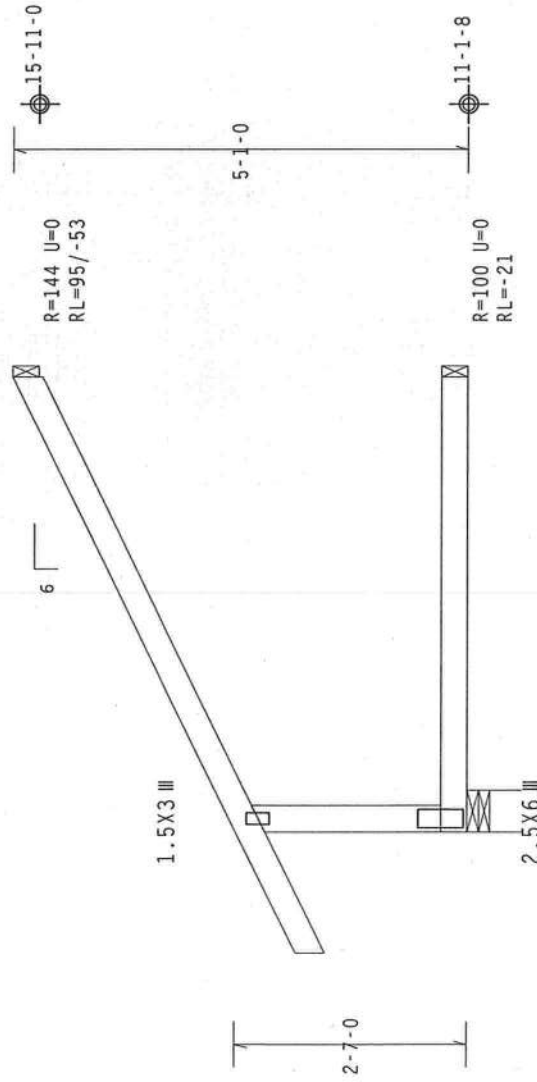
THIS DMG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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=5.0 psf, wind BC DL=5.0 psf, GCpl(+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



1-4-0
5-0-0 Over 3 Supports
R=307 U=74 W=5.5"

PLT TYP. Wave

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

FL/-14/-1-/R/- Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R487-- 81762
TC DL	10.0 PSF	DATE	05/16/12
BC DL	10.0 PSF	DRW	HCUSR487 12137037
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEQN-	95338
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UM487_Z03



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

****IMPORTANT****
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and MTCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses shall have a properly attached rigid ceiling. Trusses shall be installed in accordance with the manufacturer's instructions. Trusses 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 the any failure to build the truss in conformance with ANSI/TPI 1 for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the joint details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. ITWBCG does not warrant the design for any structure. This job's general notes page: TPI: www.tpinet.org; MTCA: www.bcsiindustry.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

(12-089--BRYAN ZECHER Garrison Res. -- , ** - EJ7 7' End Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

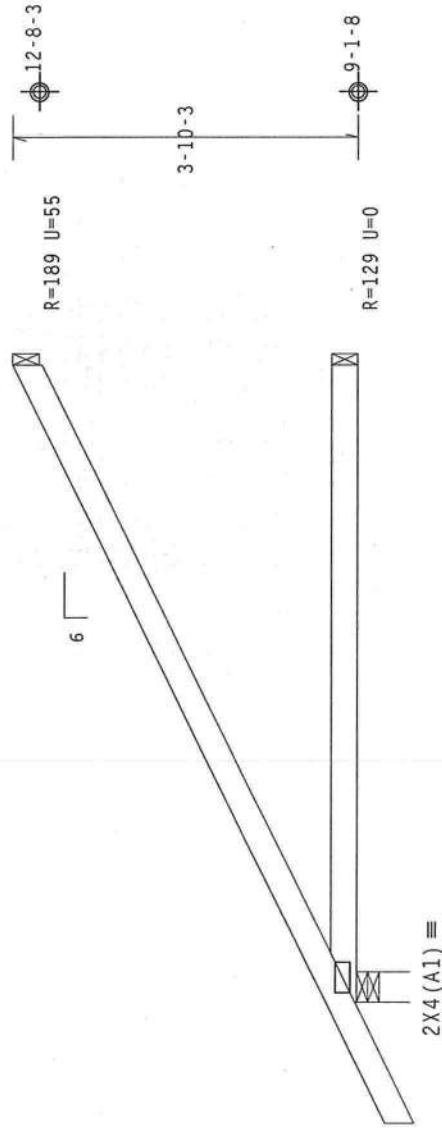
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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 II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpf (+/-)=0.18

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

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

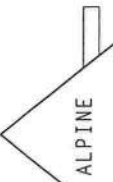


7'-0-0 Over 3 Supports
R=394 U=28 W=4"
RL=101/-37

PLT TYP. Wave

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

Scale = .5"/Ft.

 Haines City, FL 33844 FL COA #0278	10/03 No. 22839		QTY 2	FL/-/4/-/1-/R/-	REF R487-- 81763
	10/03 No. 22839		QTY 2	FL/-/4/-/1-/R/-	DATE 05/16/12
	10/03 No. 22839		QTY 2	FL/-/4/-/1-/R/-	DRW HCUSR487 12137038
	10/03 No. 22839		QTY 2	FL/-/4/-/1-/R/-	HC-ENG JB/WPF
	10/03 No. 22839		QTY 2	FL/-/4/-/1-/R/-	SEQN- 95228
	10/03 No. 22839		QTY 2	FL/-/4/-/1-/R/-	JREF- 1UM4487_Z03
WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET: FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. **IMPORTANT** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTC) for all details and specifications. Trusses shall be installed in accordance with the BCSI specifications. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraining bracing shall have bracing installed per BCSI sections 83, 87 or 810, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal on drawing or cover page listing this design shown. The responsibility and use of this design for any structure is the responsibility of the building official. For more information, please visit: www.itwbcg.com, www.tpiinst.org, www.tccsafe.org, www.stcindustry.com.					



(12-089--BRYAN ZECHER Garrison Res. -- , ** - EJ7B 7' End Jack)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Left end vertical not exposed to wind pressure.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

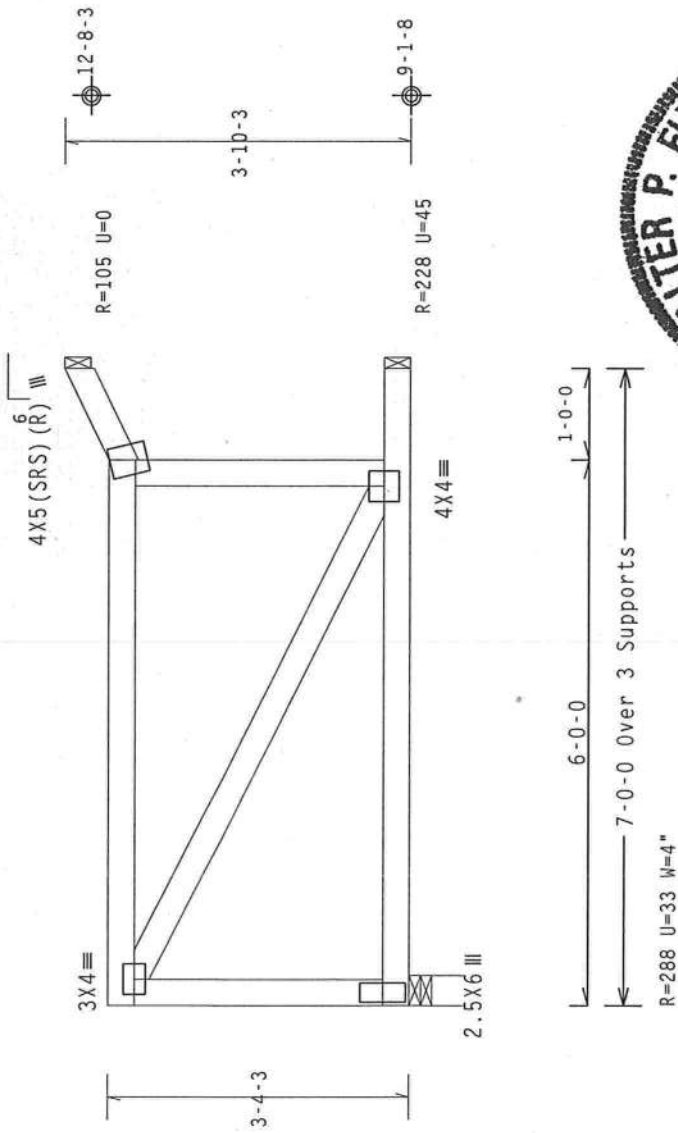
THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, Exp C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI (+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



PLT TYP. Wave

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

10 F03 INO 22839

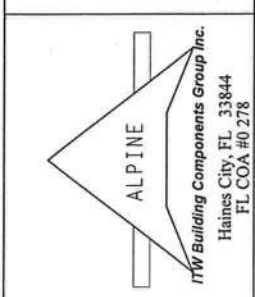
FL/-/4/-/-/R/-

Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R487-- 81764
TC DL	10.0 PSF	DATE	05/16/12
BC DL	10.0 PSF	DRW	HCUSR487 12137039
BC LL	0.0 PSF	HC-ENG	JB/WPF
TOT.LD.	40.0 PSF	SEON-	95138
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UM4487_Z03



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of BCSI (Building Component Safety Information, by TPI and MICA) for safety instructions to performing these tasks. Installers shall provide temporary bracing per BCSI. Unless otherwise noted, all trusses shall be installed in accordance with the following instructions. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint 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 drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the user. For more information see: This Job's general notes pages ITW-BCG: www.itwbcg.com; TPI: www.tpiinc.org; MICA: www.bcsiindustry.com; ICC: www.iccsafe.org



Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpl (+/-)=0.18

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

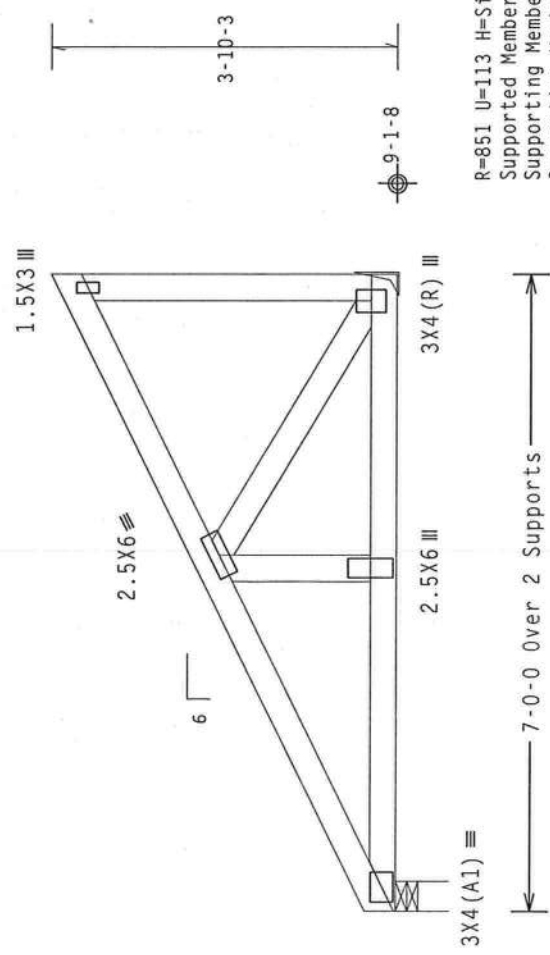
Bottom chord checked for 10.00 psf non-concurrent live load.

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

Special loads
-----Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25
TC- From 62 plf at 0.00 to 62 plf at 7.00
BC- From 10 plf at 0.00 to 10 plf at 7.00
BC- 128.92 lb Conc. Load at 1.09
BC- 648.89 lb Conc. Load at 3.06
BC- 431.41 lb Conc. Load at 5.06

Right end vertical not exposed to wind pressure.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.



R=851 U=113 H=Simpson LUS26
Supported Member Face: (3) 0.148"x3" nails
Supporting Member Face: (4) 0.148"x3" nails
Supporting Member : (1) 2x6 SP #1 Dense

R=865 U=107 W=4"

PLT TYP. Wave Design Crit: FBC2010Res/TPI-2007(STD FT/RT=20%(0%)/0(0) Scale =.5"/Ft.

 ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	10-03-11-0208-20 No. 22839		QT 1	FL/-/4/-/-/R/-	Scale =.5"/Ft.
	TC LL	20.0 PSF	REF	R487--	81765
	TC DL	10.0 PSF	DATE	05/16/12	
	BC DL	10.0 PSF	DRW	HCUSR487	12137054
	BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.		40.0 PSF	SEQN-	96059	
DUR.FAC.		1.25			
SPACING		24.0"	JREF-	1UM4487_Z03	



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have bracing installed per BCSI section 8.0. BCSI shall be used for all bracing details. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure built, installed, handled, shipped or braced. Details shall be shown on the drawing or cover page listing this drawing. Indicates acceptance of professional engineering 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: ITW Building Components Group Inc. ITWBCG: www.itwbcg.com; TPI: www.tpinst.org; WCA: www.sbcindustry.com; ICS: www.icsinfo.org

(12-089--BRYAN ZECHER Garrison Res. -- , ** - EJ7T 7' End Jack)

Top	chord	2x4	SP	#1
Bot	chord	2x4	SP	#1
	webs	2x4	SP	#3

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

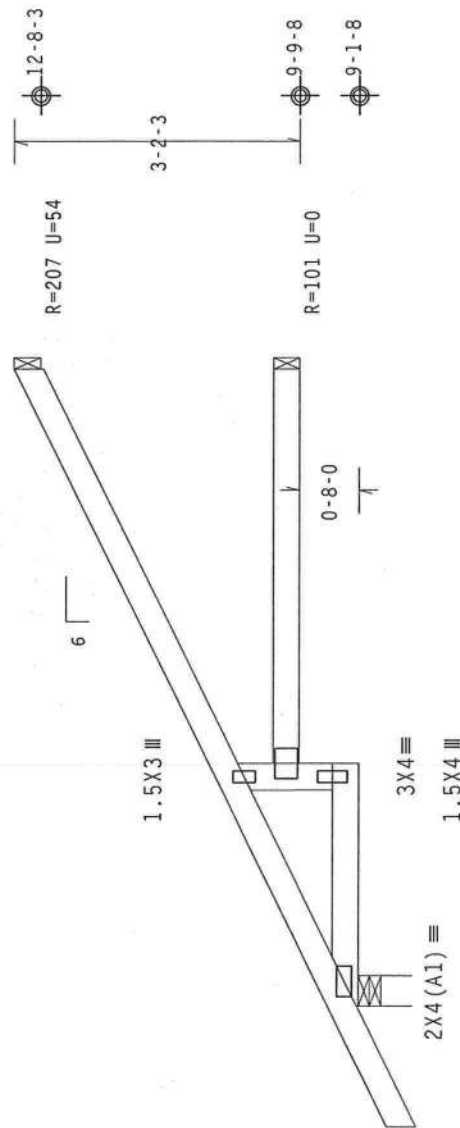
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS 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.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot. chord.


$$\hookrightarrow 1-4-0 \rightarrow 1$$

2-8-0 4-4-0
7-0-0 over 3 Supports

R=394 U=28 W=4"
RL=101/-37

PLT TYP: Wave

Design Crit: FBC2010Res/TPI-2007(Std)
FT/RT=20%(0%)/0(0)

Scale = .5"/Ft.

[illegible]

(12-089--BRYAN ZECHER Garrison Res. -- ** - HJ3 4'2"15 Hip Jack Girder)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1

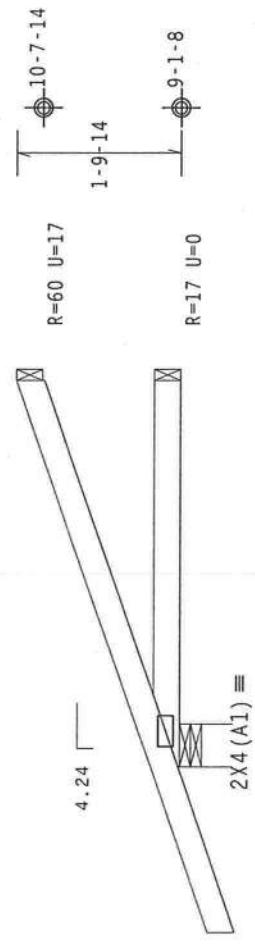
Hipjack supports 3-0-0 setback jacks with no webs.

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, Located anywhere in roof, RISK CAT II, Exp C, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpl(+/-)=0.18

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

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



← 1-9-14 →
← 4-2-15 Over 3 Supports →
R=183 U=34 W=5.657"

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

PLT TYP. Wave

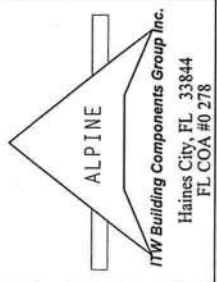
10-03-11 030030 No. 22830		FL/-4/-/-R/-	Scale = .5"/Ft.
10-03-11 030030 No. 22830		TC LL 20.0 PSF	REF R487-- 81768
10-03-11 030030 No. 22830		TC DL 10.0 PSF	DATE 05/16/12
10-03-11 030030 No. 22830		BC DL 10.0 PSF	DRW HCUSR487 12137055
10-03-11 030030 No. 22830		BC LL 0.0 PSF	HC-ENG JB/WPF
10-03-11 030030 No. 22830		TOT.LD. 40.0 PSF	SEQN- 95268
10-03-11 030030 No. 22830		DUR.FAC. 1.25	
10-03-11 030030 No. 22830		SPACING 24.0"	JREF- 1UM4487_Z03



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

****IMPORTANT****
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WTCA) practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Trusses shall be braced in accordance with the provisions of BCSI. Trusses shall have a properly attached rigid ceiling, locations shown for permanent lateral restraint 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 the any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the job. Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering 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 Section 1.1. For more information see: This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; WTCA: www.bocindustry.com; ICC: www.iccsafe.org



(12-089--BRYAN ZECHER Garrison Res. -- ** - HJ5 7'0"14 Hip Jack Girder)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1

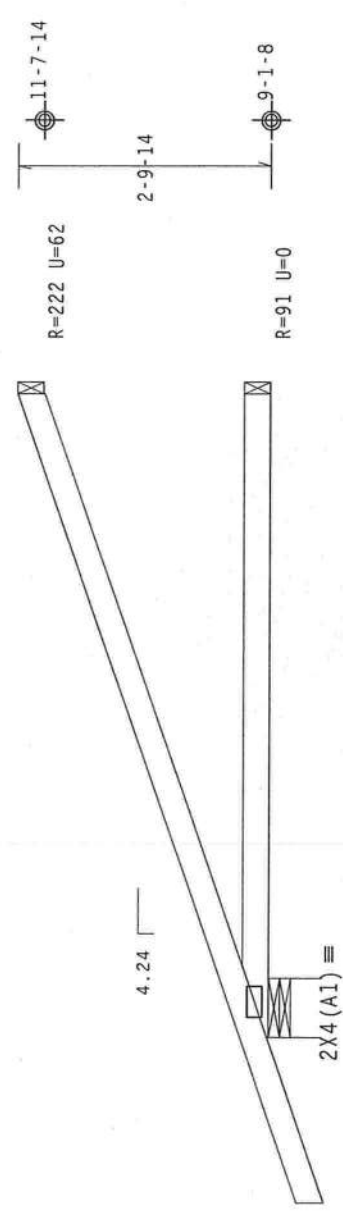
Hipjack supports 5-0-0 setback jacks with no webs.

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. Located anywhere in roof, RISK CAT II. Exp C. wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpl(+/-)=0.18

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

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



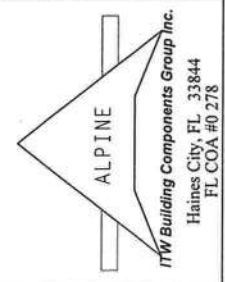
1'-9-14
7'-0-14 Over 3 Supports
R=227 U=31 W=7.778

Design Crit: FBC2010Res/TPI-2007(STP FT/RI=20%(0%)/0(0)

PLT TYP. Wave



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing and shall have a properly attached rigid structural sheathing and bot chord 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 any failure to build the truss in accordance with ANSI/TPI 1 and the details shown above and on the drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure shall be the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.2. For more information see: This Job's general notes page.
ITW BCG: www.itwbcg.com; TPI: www.tpiinst.org; WCA: www.bocindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF	R487--	81770
TC DL	10.0 PSF	DATE	05/16/12	
BC DL	10.0 PSF	DRW	HCUSR487	12137057
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	40.0 PSF	SEQN-	95279	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UM4487_Z03	

(12-089--BRYAN ZECHER Garrison Res. -- ** - HJ5S 7'0"14 Hip Jack Girder)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

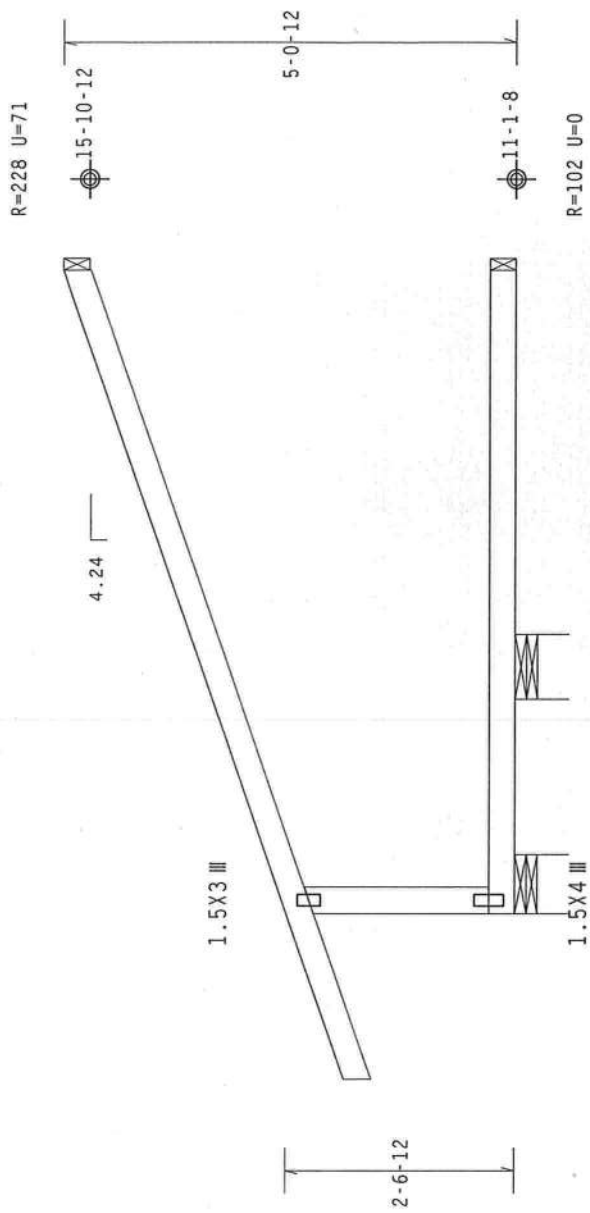
Left end vertical not exposed to wind pressure.
Roof overhang supports 2.00 psf soffit load.
Hipjack supports 5-0-0 setback jacks with no webs.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

THIS DMG 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=5.0 psf, wind BC DL=5.0 psf, GCpl(+/-)=0.18

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

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



1-9-14
7-0-14 Over 4 Supports
R=352 U=64 W=7.778
R=146 U=0 W=8.485

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

PLT TYP. Wave



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCCI (Building Component Safety Information, by TPI and WTCA) practices prior to performing these functions. Installers shall provide temporary bracing and shoring for all trusses until they are properly attached to the building structure. Trusses shall have bracing installed per BCCI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from 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: www.itwbcg.com; TPI: www.tpinet.org; WTCA: www.wtcaindustry.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

TC LL	20.0 PSF	FL / - / 4 / - / - / R / -	Scale = .5" / Ft.
TC DL	10.0 PSF	REF R487 - - 81771	
BC DL	10.0 PSF	DATE 05/16/12	
BC LL	0.0 PSF	DRW HCUSR487 12137058	
TOT.LD.	40.0 PSF	HC-ENG JB/WPF	
DUR.FAC.	1.25	SEQN- 95344	
SPACING	24.0"	JREF- 1UM4487_Z03	

Top chord	2x4	SP	#1
Bot chord	2x4	SP	#1
Web	2x4	SP	#3

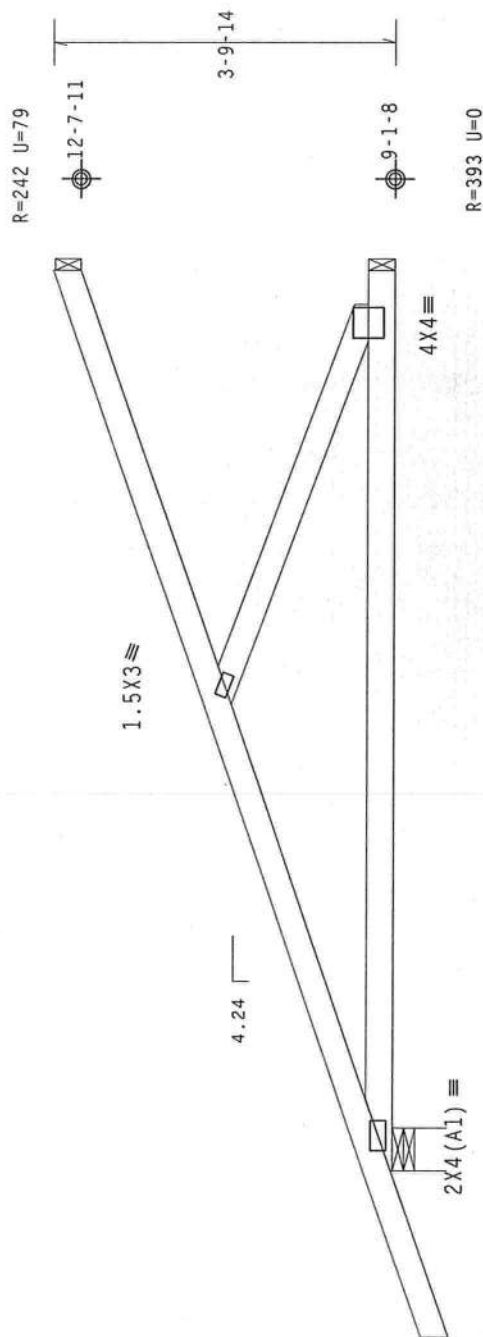
120 mph wind, 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg., Located anywhere in roof, RISK CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Hipjack supports 7-0-0 setback jacks with no webs.

Wind Loads and reactions based on MWFRS 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.

Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (3) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



$\longleftrightarrow 1-9-14 \longleftrightarrow$
 $\longleftrightarrow 9-10-13 \text{ Over } 3 \text{ Supports}$
 $R=387 \quad U=49 \quad W=5.657''$

PLT TYP. Wave

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

Scale = .5"/Ft.

FL/-/4/-/-/R/-

REF R487-- 81772

DATE 05/16/12

DRW HCUSR487 12137064

HC-ENG JB/WPF

SEQN- 95792

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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

****IMPORTANT****

Trusses require extreme care in fabricating, shipping, handling, installing and bracing. For the latest edition of RCSC Building Component Safety Information, by TPI and MTC, call 1-800-321-3333 or write to TPI, P.O. Box 130, Waukegan, IL 60087. TPI will provide temporary bracing for RCSC trusses. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral bracing shall have bracing installed per RCSC sections 83, 87 or 910, as applicable.

ITW Building Components Group Inc. (IWBGCO) shall not be responsible for any deviation from the design shown on drawings or specifications by its failure to detect or identify such deviations during manufacturing, packing or unloading. Apply plates to each face of rivets and position as shown above and on the following details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on cover flange is required. See drawing 160B-2 for details. Indicated acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the building Designer per AWS D17.1 Sec.2. For more information see: This Job's Project Manager at IWBGCO, 1800 W. Higgins Ave., Itasca, IL 60143; Tel: 630/958-8800; Fax: 630/958-8801; E-mail: info@itwibg.com; Web: www.itwibg.com.

ALPINE

TW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

05/16/2012

JREF- 1UM4487_Z03

(12-089--BRYAN ZECHER Garrison Res. -- ** - HJ7T 9'10"13 Hip Jack Girder)

Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

Roof overhang supports 2.00 psf soffit load.

Hipjack supports 7'-0" set back jacks with no webs.

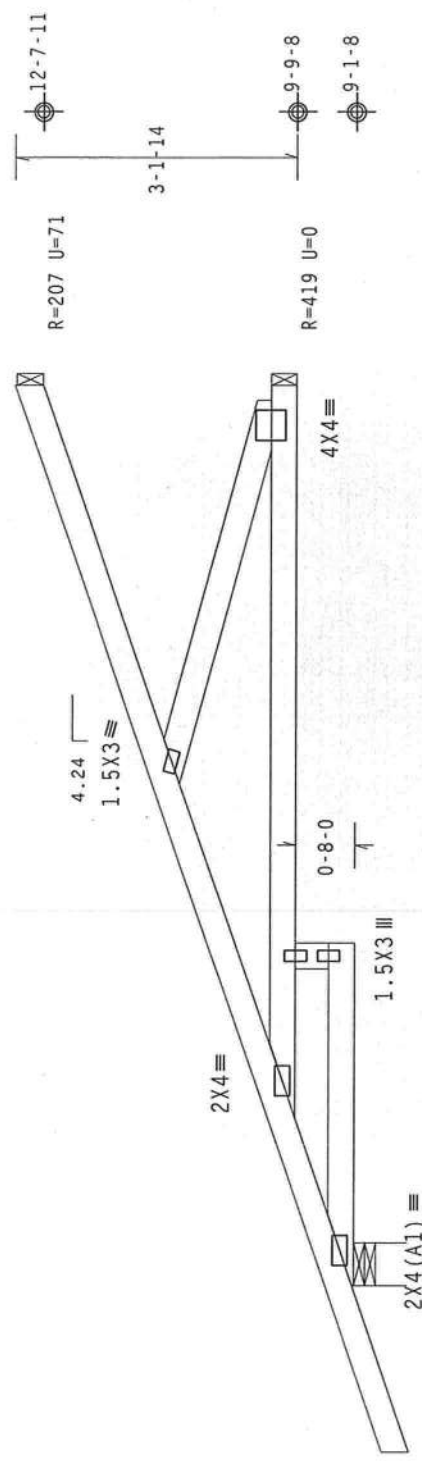
Provide (2) 16d common nails(0.162"x3.5"), toe nailed at Top chord.
Provide (3) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

Laterally brace Bottom Chord above filler at 24" oc,
including a lateral brace at chord ends.

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=5.0 psf, wind BC
DL=5.0 psf. GCpl(+/-)=0.18

Wind loads and reactions based on MWFRS 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.



Design Crit: FBC2010Res/TPI-2007 (STP
FT/RT=20%(0%)/0(0)

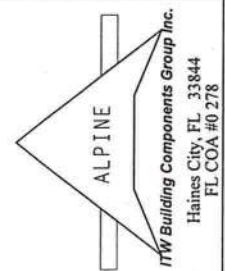
PLT TYP. Wave

TC LL	20.0 PSF	FL/-4/-/-R/-	Scale = 5"/Ft.
TC DL	10.0 PSF	REF	R487-- 81773
BC DL	10.0 PSF	DATE	05/16/12
BC LL	0.0 PSF	DRW	HCUSR487 12137059
TOT.LD.	40.0 PSF	HC-ENG	JB/WPF
DUR.FAC.	1.25	SEQN-	95501
SPACING	24.0"	JREF-	1UM4487_Z03

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

****IMPORTANT****
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCCI (Building Component Safety Information, by TPI and WTCA) and the manufacturer's instructions. Installers shall provide temporary bracing and bracing details. Trusses shall be braced and secured to the building and the building shall have a properly attached rigid ceiling. Trusses shall be braced and secured to the building and the building shall have bracing installed per BCCI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1 or for handling, shipping, loss, bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal on drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely 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: This Job's general notes page or ITW-BCG: www.itwbcg.com; TPI: www.tpi.net.org; WTCA: www.bccindustry.com; ICC: www.iccsafe.org



Top chord 2x4 SP #1
Bot chord 2x4 SP #1
Webs 2x4 SP #3

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=5.0 psf, wind BC DL=5.0 psf. GCpf(+/-)=0.18

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

These support conditions used at bearings indicated
(H1) = Simpson LUS28 w/ (1)2x8 SP #1 Dense supporting member.
(8) 0.148"x3" nails into supporting member.
(6) 0.148"x1.5" nails into supported member.

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

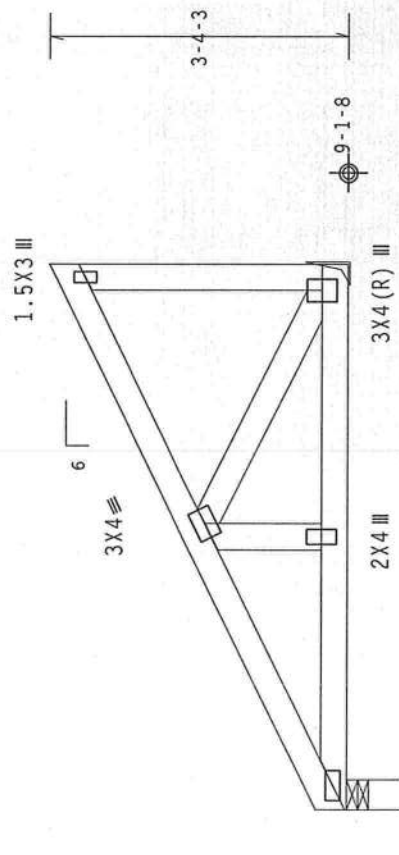
Special loads

-----Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25
TC- From 62 pif at 0.00 to 62 pif at 6.00
BC- From 20 pif at 0.00 to 20 pif at 2.06
BC- From 10 pif at 2.06 to 10 pif at 6.00
BC- 438.33 lb Conc. Load at 2.06
BC- 387.87 lb Conc. Load at 4.06

Right end vertical not exposed to wind pressure.

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

Bottom chord checked for 10.00 psf non-concurrent live load.



R=618 U=89 H=Simpson LUS24
Supported Member Face: (2) 0.148"x3" nails
Supporting Member Face: (4) 0.148"x3" nails
Supporting Member: (1) 2x4 SP #1

R=663 U=81 W=4"

PLT TYP. Wave

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

Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R487--	81774
TC DL	10.0 PSF	DATE	05/16/12	
BC DL	10.0 PSF	DRW	HCUSR487	12137060
BC LL	0.0 PSF	HC-ENG	JB/WPF	
TOT.LD.	40.0 PSF	SEQN-	95466	
DUR.FAC.	1.25			
SPACING	24.0"	JREF-	1UM4487_Z03	

WALTER P. FINN
LICENSE
No. 22839
STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/16/2012

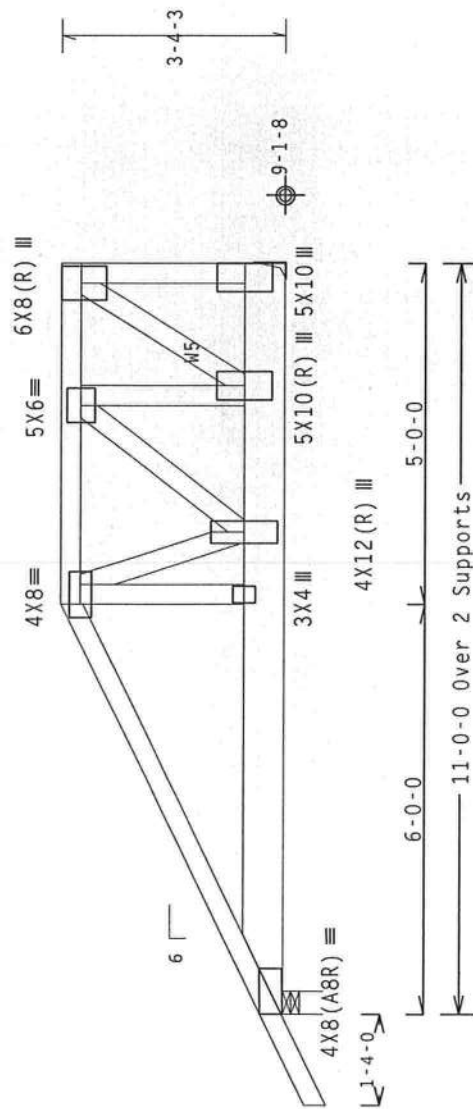
****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCCI (Building Component Safety Information, by TPI and WTCA). Details are provided for the most common applications. Installers shall provide temporary bracing and bracing prior to performing these functions. Trusses shall be installed and braced in accordance with the instructions provided. Trusses shall have a properly attached rigid ceiling. Trusses shall be installed in accordance with the instructions provided. Trusses shall have bracing installed per BCCI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1 for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure other than that intended is the responsibility of the user. For more information see: This Job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpi.net; WTCA: www.bocindustries.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

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=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.



R=2115 II=260 W=4"

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

Trusset require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the following for more information: (1) AISC's new edition of BCS1 (Building Component Safety Information, by TPI and WCA) for safety and erection details; (2) AISC's new edition of BCS2 (Bracing Component Safety Information, by TPI and WCA) for safety and erection details; and (3) AISC's new edition of BCS3 (Bracing Component Safety Information, by TPI and WCA) for safety and erection details. Otherwise, top chord shall have properly attached structural bracing per AISC's BCS1 and BCS2. Bottom chord shall have properly attached structural bracing per AISC's BCS1 and BCS2. All bracing shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCS1 sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

R-4388 U-528 148"x3" nails
Supported by Mac (148"x3" nails)
Supported by Mac (148"x3" nails)
Supported by Mac (148"x3" nails)
Supported by Mac (148"x3" nails)



FL/-/4/-/-/R/-		Scale = .375"/Ft.
TC LL	20.0 PSF	REF R487-- 81775
TC DL	10.0 PSF	DATE 05/16/12
BC DL	10.0 PSF	DRW HCUR487 12137061
BC LL	0.0 PSF	HC-ENG JB/WPF
TOT.LD.	40.0 PSF	SEQN- 95598
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1UM4487_Z03

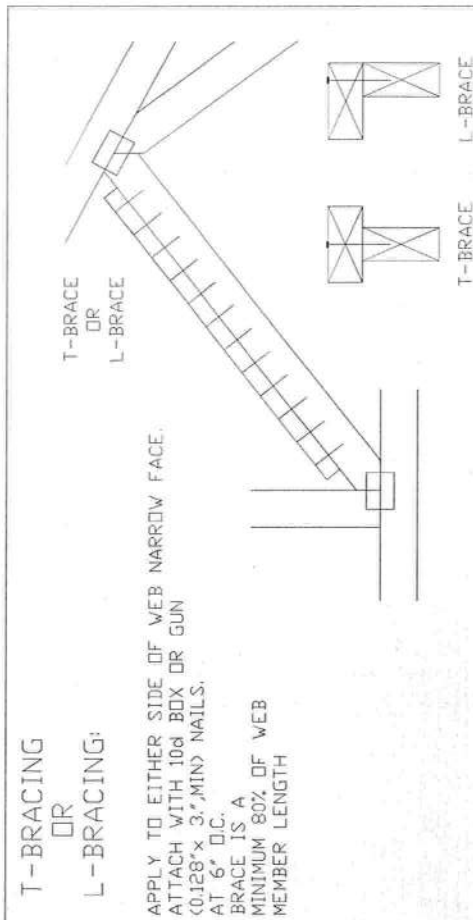
THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED
CLCB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB
BRACING.

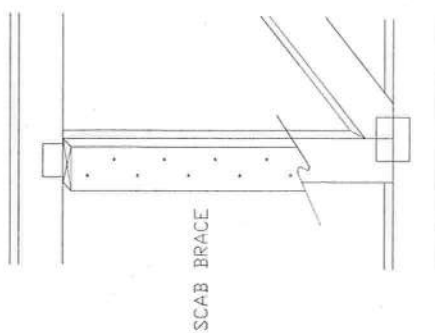
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE 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.



APPLY SCAB(S) TO WIDE FACE OF WEB.
NOT MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN
(0.128" x 3", MIN) NAILS.
AT 6" OC.
BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH

[illegible]

NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

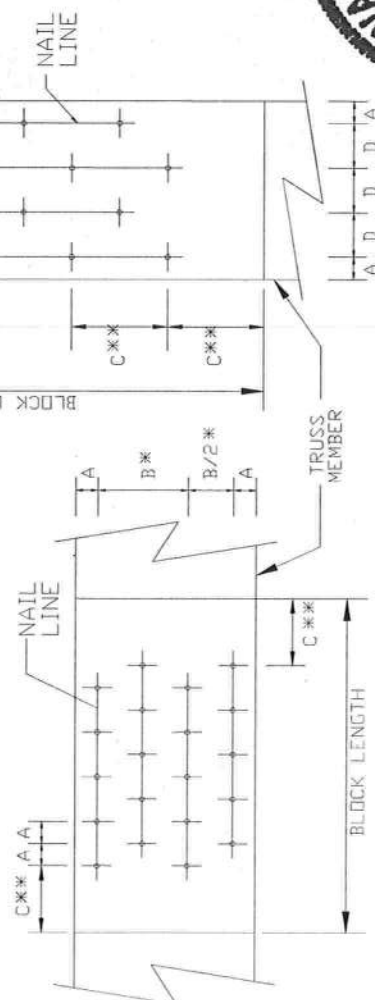
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

* SPACING MAY BE REDUCED BY 50%

** SPACING MAY BE REDUCED BY 33%

DIRECTION OF LOAD AND NAIL ROWS



LOAD APPLIED PERPENDICULAR TO GRAIN

LOAD APPLIED PARALLEL TO GRAIN

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the following BCSI Building Component Safety Information, by TPI and VTC for safety practices for performing these functions. Installers shall provide temporary bracing per BCSI. Unless otherwise noted, top chord shall have properly attached structural panels and bottom chord shall have properly attached structural panels. Refer to the BCSI Building Component Safety Information for bracing installed per BCSI sections B3 & B7. See this job's general notes page for more information.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.

ITV Building Components Group Inc. (ITVBCG) shall not be responsible for any deviation from the design shown on this drawing. The design shown on this drawing is the responsibility of the building owner. The design shown on this drawing is the responsibility of the building owner. The design shown on this drawing is the responsibility of the building owner.

A seal on this drawing or cover page indicates acceptance and professional engineering responsibility for the design shown on this drawing. The design shown on this drawing is the responsibility of the building owner. The design shown on this drawing is the responsibility of the building owner. The design shown on this drawing is the responsibility of the building owner.



Earth City, MO 63045

MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES			
	A	B*	C**	D
8d BOX (0.113"X 2.5", MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128"X 3", MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128"X 3.25", MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135"X 3.5", MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X 4", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X 2.5", MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148"X 3", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X 3.25", MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162"X 3.5", MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120"X 2.5", MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 2.5", MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120"X 3", MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 3", MIN)	7/8"	1 5/8"	2"	1"



REF NAIL SPACE

DATE 1/1/09

DRWG CANNILSP0109