

# 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:1TC08228Z0629134733

Truss Fabricator: Anderson Truss Company  
Job Identification: 7-310--Cason Construction MATT CASON -- , \*\*  
Truss Count: 40  
Model Code: Florida Building Code 2004 and 2006 Supplement  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Versions 7.36, 7.37.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61G15-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -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: HCUSR8228

Details: BRCLBSUB-A11015EE-GBLLETIN-140GS-140GC-



Seal Date: 10/29/2007

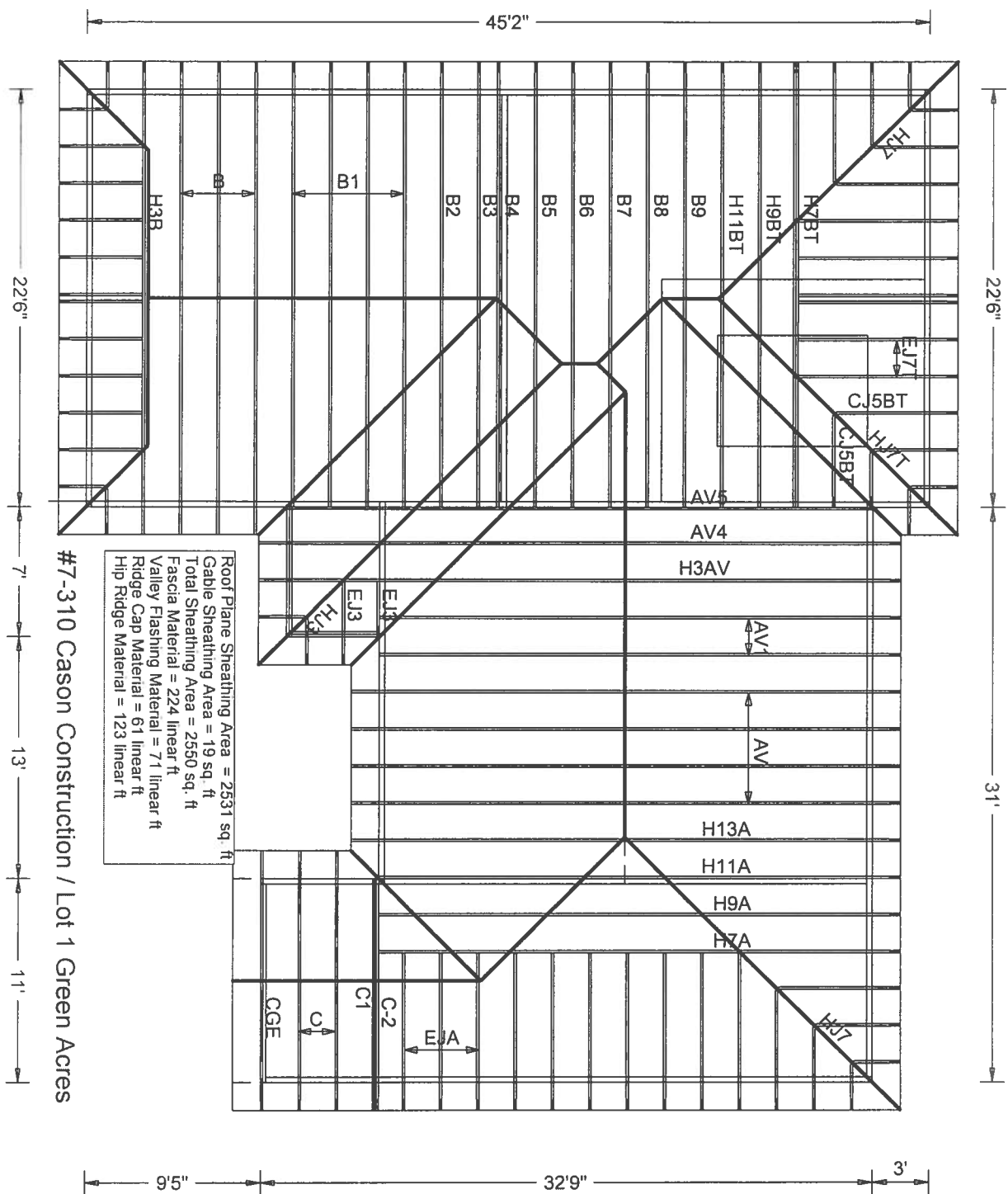
-Truss Design Engineer-  
James F. Collins Jr

Florida License Number: 52212  
1950 Marley Drive  
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	43462--H7A		07302067	10/29/07
2	43463--H9A		07302065	10/29/07
3	43464--AV		07302038	10/29/07
4	43465--H3AV		07302068	10/29/07
5	43466--H11A		07302039	10/29/07
6	43467--H13A		07302040	10/29/07
7	43468--AV1		07302041	10/29/07
8	43469--AV4		07302042	10/29/07
9	43470--AV5		07302043	10/29/07
10	43471--H3B		07302069	10/29/07
11	43472--B		07302044	10/29/07
12	43473--B1		07302045	10/29/07
13	43474--B2		07302046	10/29/07
14	43475--B3		07302047	10/29/07
15	43476--B4		07302048	10/29/07
16	43477--B5		07302049	10/29/07
17	43478--B6		07302050	10/29/07
18	43479--B7		07302051	10/29/07
19	43480--B8		07302052	10/29/07
20	43481--B9		07302053	10/29/07
21	43482--H11BT		07302054	10/29/07
22	43483--H9BT		07302055	10/29/07
23	43484--H7BT		07302070	10/29/07
24	43485--CGE		07302071	10/29/07
25	43486--C		07302056	10/29/07
26	43487--C1		07302057	10/29/07
27	43488--C-2		07302072	10/29/07
28	43489--CJ1		07302066	10/29/07
29	43490--HJ3		07302073	10/29/07
30	43491--HJ7		07302074	10/29/07
31	43492--HJ7T		07302075	10/29/07
32	43493--HJ3		07302076	10/29/07
33	43494--CJ3		07302058	10/29/07
34	43495--CJ5		07302113	10/29/07
35	43496--EJ7		07302059	10/29/07
36	43497--EJ3		07302060	10/29/07

#	Ref	Description	Drawing#	Date
37	43498--EJ3		07302061	10/29/07
38	43499--EJA		07302062	10/29/07
39	43500--CJ5BT		07302063	10/29/07
40	43501--EJ7T		07302064	10/29/07





#7-310 Cason Construction / Lot 1 Green Acres

Roof Plane Sheathing Area = 2531 sq. ft  
Gable Sheathing Area = 19 sq. ft  
Total Sheathing Area = 2550 sq. ft  
Fascia Material = 224 linear ft  
Valley Flashing Material = 71 linear ft  
Ridge Cap Material = 61 linear ft  
Hip Ridge Material = 123 linear ft

H7A)

1

1

1

/10(

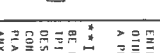
**2. The**

7

11



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AM  
DRA  
DES  
BUI

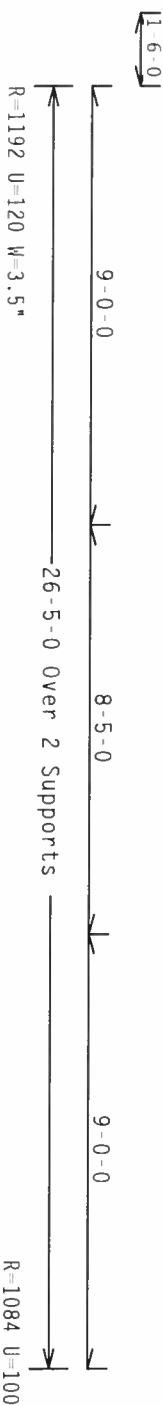


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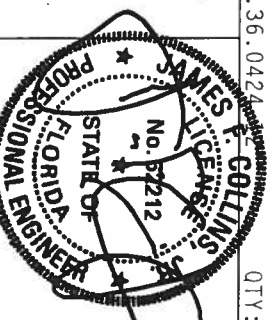
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCPI(+/-)=0.18

Wind reactions based on MMFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Scale = .25"/Ft.

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 00778



TC LL	20.0 PSF	REF	R8228- 43463
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCU8R8228 07302065
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	23994
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06



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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 gcpi(+/-)0.18

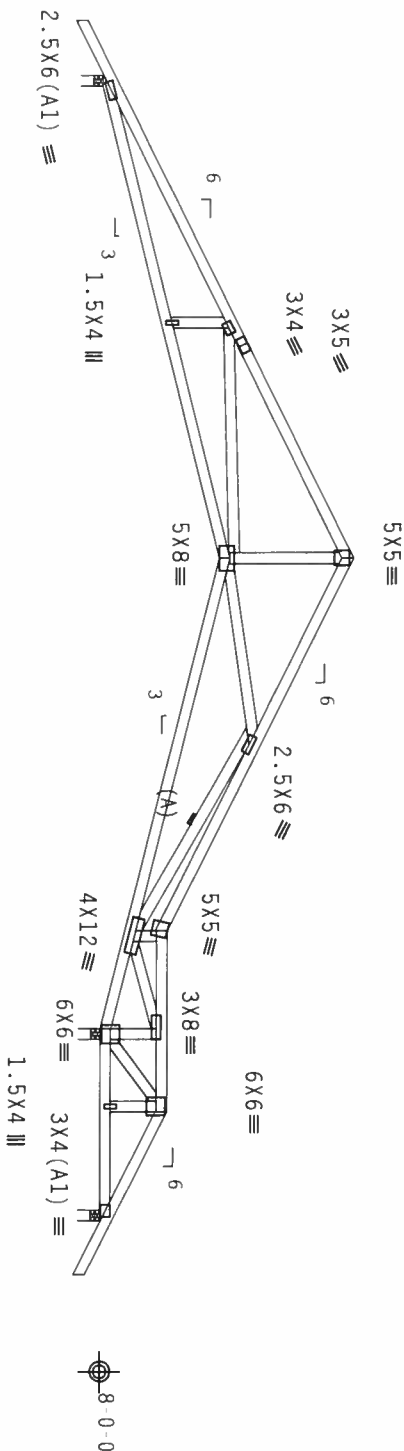
Wind reactions based on MWFRS pressures.

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

(A) Continuous lateral bracing equally spaced on member.

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

Shim all supports to solid bearing.



18"

26'-3"

13'-2"

13'-2"

10'-2"

12'-11"

31'-5" Over 3 Supports

5'-0"

5'-0"

5'-3"

R=1076 U=133 W=3.5"

R=2151 U=231 W=3.5"

$$R = -173 \quad U = 37 \quad W = 3.5^{\circ}$$

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

7.36.0424

QTY:1

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

Scale = .1875"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\* TRUSS BRIDGING EXISTENCE CHAIN IN FABRICATION, HANDLING, UNLOADING, INSTALLING AND BRACING REFER TO GC-51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND (800) TRUSS COUNCIL OF AMERICA, 630000 ENTERPRISE LANE, ADDISON, TX 75129 FOR SAFETY PRACTICES AND PRIOR TO PERFORMING THESE FUNCTIONS. INTERSECTIONS OF CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED CEILING.

ALPINE

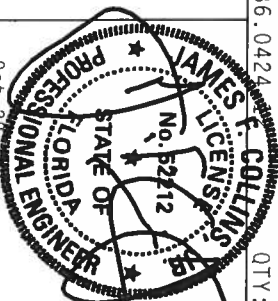
**ITW Building Components Group, Inc.**

FL Certificate of Authorization # 0079

## SPECIAL LOADS

		DUR. FAC. = 1.25 / PLATE	DUR. FAC. = 1.25
TC	From	62 PLF at 1.50 to	62 PLF at 13.21
TC	From	62 PLF at 13.21 to	62 PLF at 23.42
TC	From	62 PLF at 23.42 to	62 PLF at 28.42
TC	From	62 PLF at 28.42 to	62 PLF at 32.92
BC	From	4 PLF at -1.50 to	4 PLF at 0.00
BC	From	21 PLF at 0.00 to	21 PLF at 13.21
BC	From	21 PLF at 13.21 to	21 PLF at 26.13
BC	From	20 PLF at 26.13 to	20 PLF at 31.42
BC	From	4 PLF at 31.42 to	4 PLF at 32.92
TC	62 LB Conc.	load at 26.48	
TC	126 LB Conc.	load at 28.42	
BC	24 LB Conc.	load at 26.48	
BC	39 LB Conc.	load at 28.35	

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



TC LL	20.0 PSF	REF	R8228- 43465
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302068
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	24052
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06



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

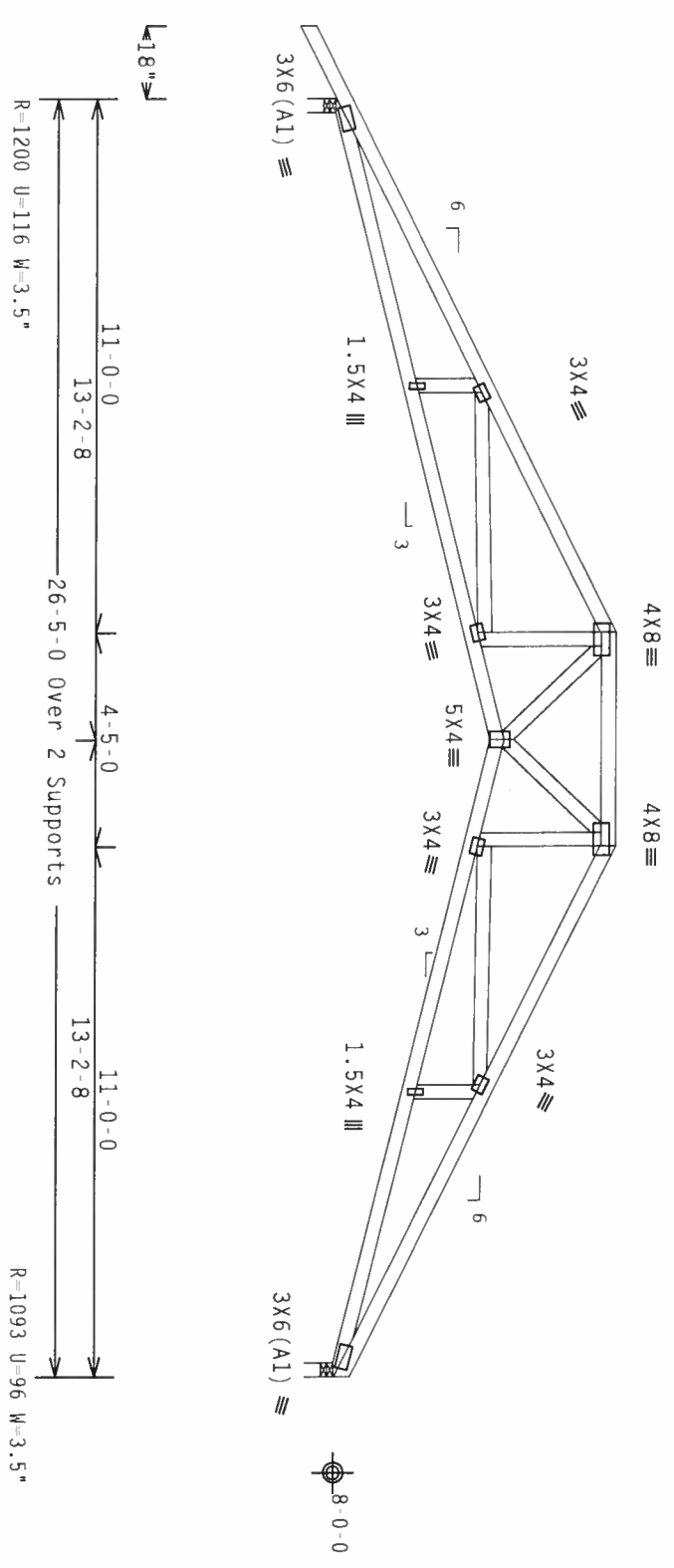
Calculated horizontal deflection is 0.17" due to live load and 0.27" due to dead load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

Wind reactions based on MMFRS pressures.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10.0)

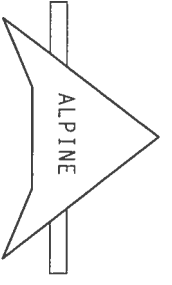
7.36.042  
OTV:1 FL/-/4/-/E/R/-

Scale = .25"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

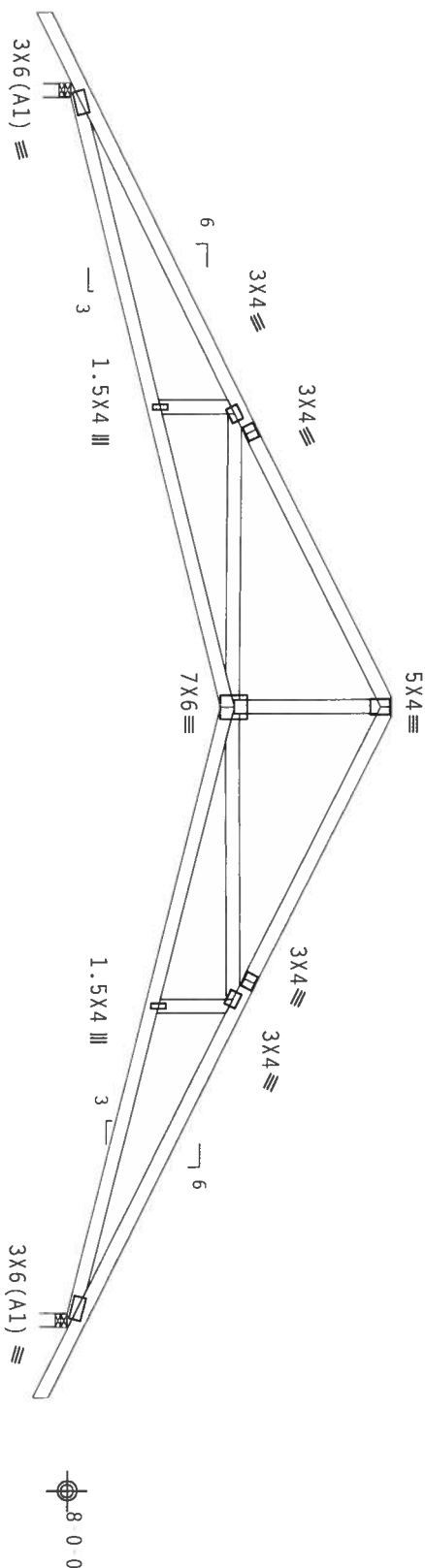
ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 0770



TC LL	20.0 PSF	REF	R8228 - 43466
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCSR8228 07302039
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON	23998
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF	ITC08228206

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wabs	2x4	SP	#3	

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  Gcpi (+/-) 0.18



18"

13-2-8

13-2-8

26-5-0 Over 2 Supports

R-1183 U-112 W-3.5"

Design Crit:  $TPI-2002(STD)/FBC$   
 $Cq/RT=1.00(1.25)$

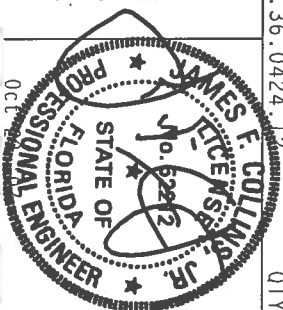
FL/ - /4/ - /E/R/ -

Scale = .25"/Ft.

**WARNING:** THESE BUILDING COMPONENTS ARE IN FACTORATION, HANDLING, DRIPPING, INSTALLING AND BRACING. RETURN TO BEST (CONSULTEE COMPONENTS FACTORY) PUBLISHED BY THE (FIRMS) PLANT, INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COMPANY), OF ALEXANDRIA, 63000 ENTERPRISE LANE, MOUNTAIN VIEW, 53719 FOR SAFETY PRACTICES PERTAINING TO PERFORMING THESE FUNCTIONS. UNDESIRABLE DAMAGE TO THE BUILDING SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 0 0770



TC LL	20.0 PSF	REF	R8228- 43467
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCSR8228 07302040
BC LL	0.0 PSF	HC-ENG	JB/AP *
TOT.LD.	40.0 PSF	SEQN-	24007
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06



Calculated horizontal deflection is 0.17" due to live load and 0.27" due to dead load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  Gcpi (+/-)=0.18

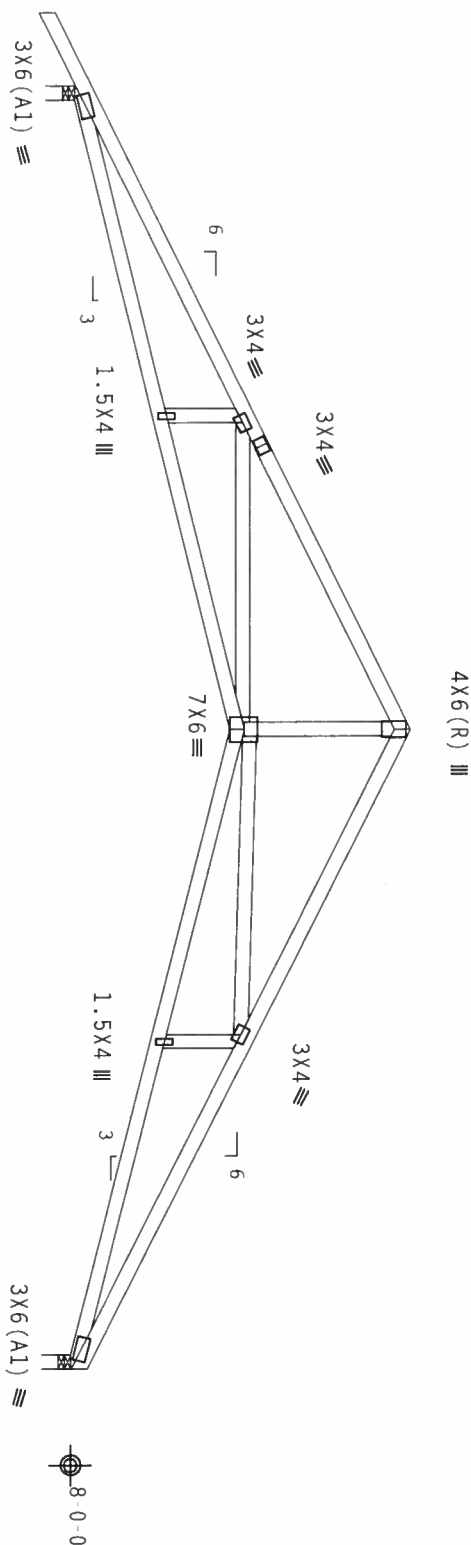


Diagram showing the elevation of a beam with dimensions and labels:

- Top dimension: 13-2-8
- Bottom dimension: 26-5-0 Over 2 Supports
- Left label: R=1200 U=113 W=3.5"
- Right label: R=1093 U=94 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

 $Cq/RT=1.00(1.25)/10(0)$ 

7.36.0424 13

QTY:1

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

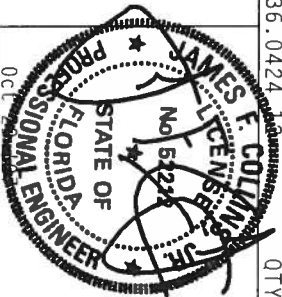
Scale = .25"/Ft.

\*WARNING\* THESE RIGID-CHINEE CASES IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND OPERATING MUST BE DONE IN ACCORDANCE WITH THE FOLLOWING SAFETY INFORMATION. PUBLISHED BY THE RIGID PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND RICA (GOOD THINGS COME OUT OF AFRICA), 65000 MIDWAY, CHICAGO, ILL. 60639 FOR SAFETY PRACTICES PRIOR TO INSTALLING THESE STRUCTURES, UNLESS OTHERWISE INDICATED, THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED GRID CEILING.

A PROPERLY ATTACHED RIGID CEILING.

ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 00776



TC LL	20.0 PSF	REF	R8228- 43468
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302041
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEQN-	24021
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228206

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wabs	2x4	SP	#3	

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

Wind reactions based on MIFRS pressures.

(A) Continuous lateral bracing equally spaced on member.


$$R=1678 \quad U=130 \quad W=3.5^{\circ}$$

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

 $Cq/RT=1.00(1.25)/10(0)$ 

7.36.0424

QTY:1

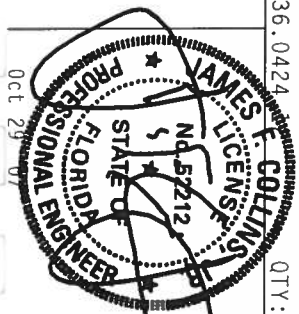
FL/-/4/-/E/R/-

Scale = .1875"/Ft.

\*"WARNING SIGNS" FRAMES, RIGIDITY, ERECT, CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PROTECTING TO DC51 (BUILDING COMPONENT SPECIFIC INFORMATION), PUBLISHED BY THE GIBBS PATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK GROUND TRESS COMPANY, OF AMERICA, 65000 CENTREPALE LANE, HADSPY, IN 53139 FOR SAFETY PRACTICES PRIOR TO REINFORCING THE S FUNCTIONS. INTERESTED ONTHATST INDICATED THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 00799



Oct 29 07

TC LL	20.0 PSF	REF	R8228- 43469
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCSR8228 07302042
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEQN-	24034
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, Cat II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)0.18



Design Crit:  $TPI-2002(STD)/FBC$   
 $Cq/RT=1.00(1.25)$

7.36.0424.12

QTY:1

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

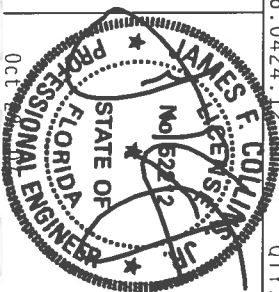
Scale = .25"/Ft.

\*-WARNING\*- FRAMES REQUIRING EXHAUST CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND OPERATING MUST BE KEPT OPEN (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY IPI (TRUSS PLATE, INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND KNOX (KNOX TRUSS COMMITTEE OF AMERICA, 65000 INTERSTATE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PERTAIN TO PERFORMING THESE FUNCTIONS. UNDESIRABLE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

**ITW Building Components Group, Inc.**

FL Certificate of Authorization # 0079



TC LL	20.0 PSF	REF	R8228-43470
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCSR8228 07302043
BC LL	0.0 PSF	HC-ENG	JB/AP *
TOT.LD.	40.0 PSF	SEON-	24041
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	1TC08228Z06

Top	chord	2x4	SP	#2	Dense	:T2,	T5	2x6	SP	#2:
Bot	chord	2x6	SP	#2						
	Webs	2x4	SP	#3						

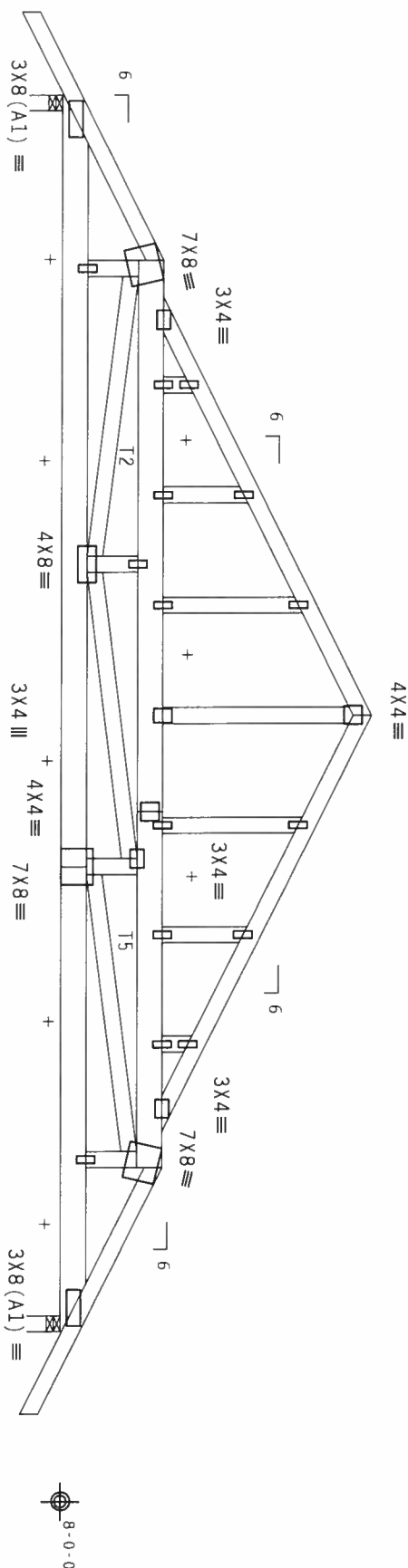
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf,  $I_w=1.00$  Gcpl(+/-)=0.18

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers  
Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or  
notched.

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

+ MEMBER TO BE Laterally Braced for Wind Loads Perpendicular to Truss. Bracing System to be Designed and Furnished by Others.

SEE DRW HCUSR001 02086012 FOR GABLE DETAILS.



SPECIAL LOADS			
	LUMBER	DUR.FAC.=1.25 / PLATE	DUR.FAC.=1.25
TC - From	62 PLF at -1.50 to	62 PLF at 3.00	
TC - From	62 PLF at 3.00 to	62 PLF at 19.50	
TC - From	62 PLF at 19.50 to	62 PLF at 24.00	
BC - From	4 PLF at -1.50 to	4 PLF at 0.00	
BC - From	20 PLF at 0.00 to	20 PLF at 22.50	
BC - From	4 PLF at 22.50 to	4 PLF at 24.00	
PLT -	126 LB Conc. Load at (3.00, 9.80),	(19.50, 9.80)	
PLT -	62 LB Conc. Load at (5.06, 10.51),	(7.06, 11.51),	(9.06, 12.51)
PLT -	(11.06, 13.51),	(13.04, 12.51),	(15.44, 11.51), (17.44, 9.81)
PLB -	39 LB Conc. Load at (3.06, 8.04),	(19.44, 8.04)	
PLB -	24 LB Conc. Load at (5.06, 8.04),	(7.06, 8.04),	(9.06, 8.04)
	(11.06, 8.04),	(13.44, 8.04),	(15.44, 8.04), (17.44, 8.04)

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

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.

1'-6-0"

3'-0-0

8'-3-0

1'-9-0

5'-10-3

0'-7-13

3'-0-0

1'-6-0"

22'-6-0 Over 2 Supports

R-1535 U=248 W=3.5"

R-1535 U=248 W=3.5"

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)
$$Cq/RT=1.00(1.25)/10(0)$$

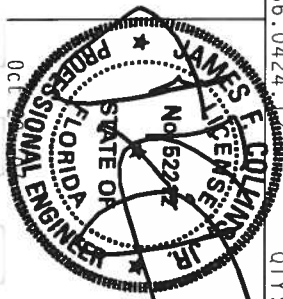
QTY:1 FL/-/4/-/E/R/-

Scale = .3125"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\* THIS IS A PROPOSED EVIDENCE CASE IN INVESTIGATION. HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC-1 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WPCA (WOOD PANEL TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MIDDLETOWN, MI 48047) FOR SAFETY PRACTICES PRIOR TO REPAIRING THESE STRUCTURES. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIP CHORDS. CALLING

ALPINE

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Haines City, FL 33844  
FL Certificate of Authorization # 0079



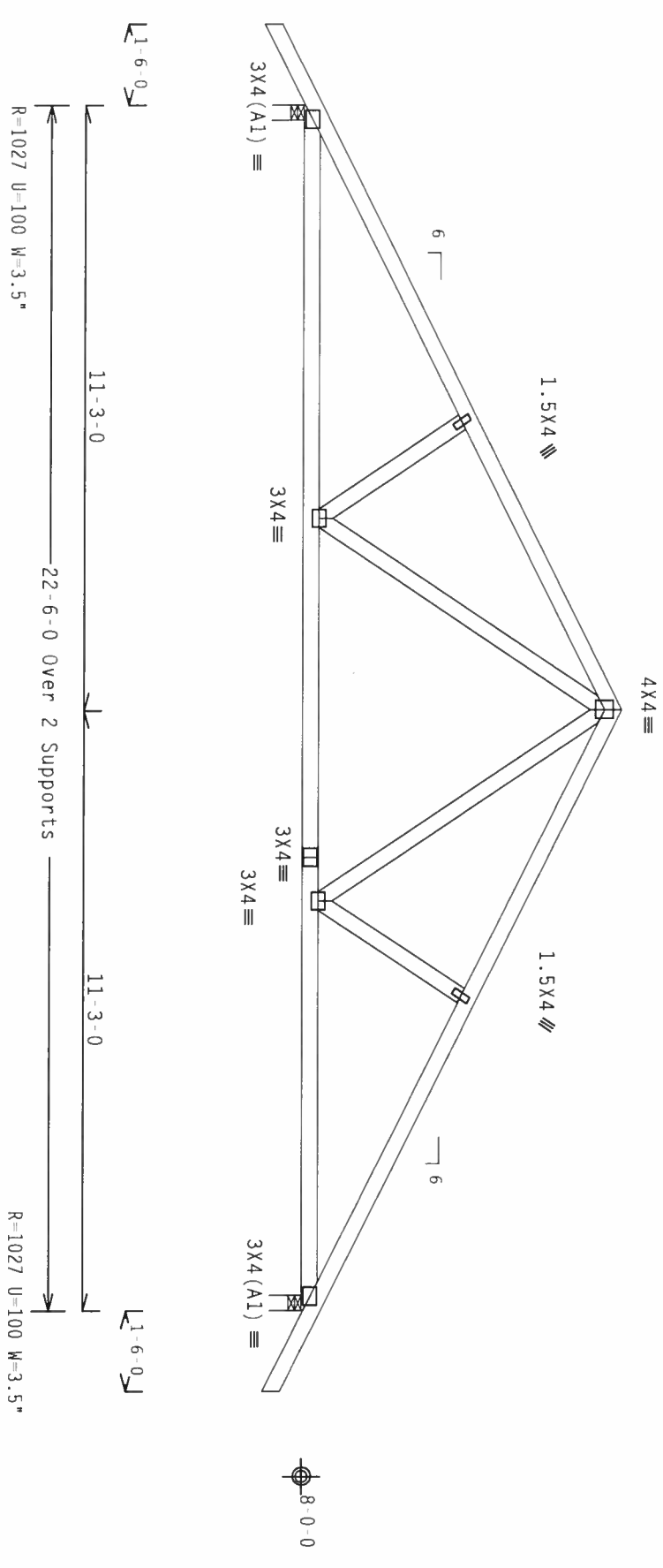
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TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCSUR8228 07302069
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEQN-	24117
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228206

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

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 Gcpl(+/-)=0.18

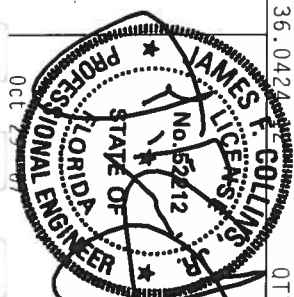
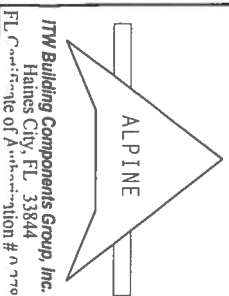
Wind reactions based on MMFRS pressures.



PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.36.042/1.00(1.25)/10(0) OTY:1 FL/-/4/-/E/R/- Scale =.3125"/ft.

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCG#1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*IMPORTANT\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TTM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AIA AND TPI). TTM BCG CONNECTION PLATES ARE MADE OF 20/10/1000 (E/4/5/5/8) ASH 6053 GRADE 40/60 (E/4/5/5) GALV STEEL. APPLY TO ALL CONNECTIONS. CONNECTIONS LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. ADD 2. ANY INSPECTION OF PLATES FOLLOWS BY TTM BCG, INC. SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

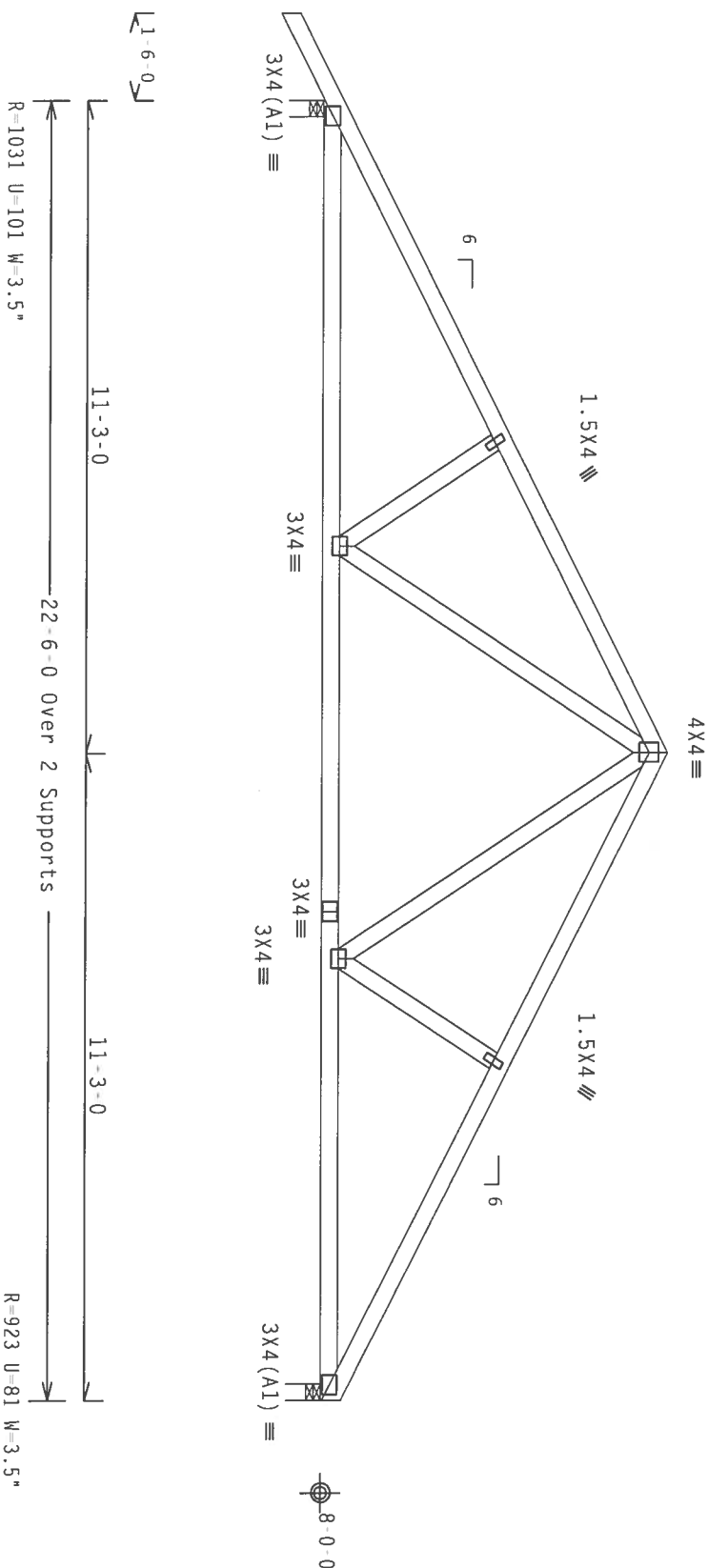


FC LL	20.0 PSF	REF R8228-43472
TC DL	10.0 PSF	DATE 10/29/07
BC DL	10.0 PSF	DRW HCUSR8228 07302044
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEON-23873
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF-1TC08228206

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf lw=1.00 GCPI(+/-)-0.18

Wind reactions based on MIFRS pressures.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424

QTY:1

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

Scale = .3125"/Ft.

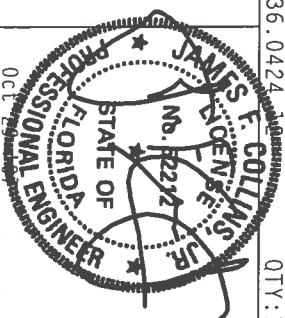
\*WARNING\* - FRICKS REQUIRING EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DC51 (BUILDING COMPOSITE CANTILEVER SHEDDING). PUBLISHED BY P1 (FRICKS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND 6000 RIVERS COUNTRY OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PLEASE TO RETURNING THESE OFFICES. UNDESIRABLE, OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

ALPINE

**ITW Building Components Group, Inc.**

Haines City, FL 33844

FL Certificate of Authorization # 00778



TC LL	20.0 PSF	REF	R8228- 43473
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302045
BC LL	0.0 PSF	HC-ENG	JB/AP *
TOT.LD.	40.0 PSF	SEQN-	23878
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	ITC08228Z06

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

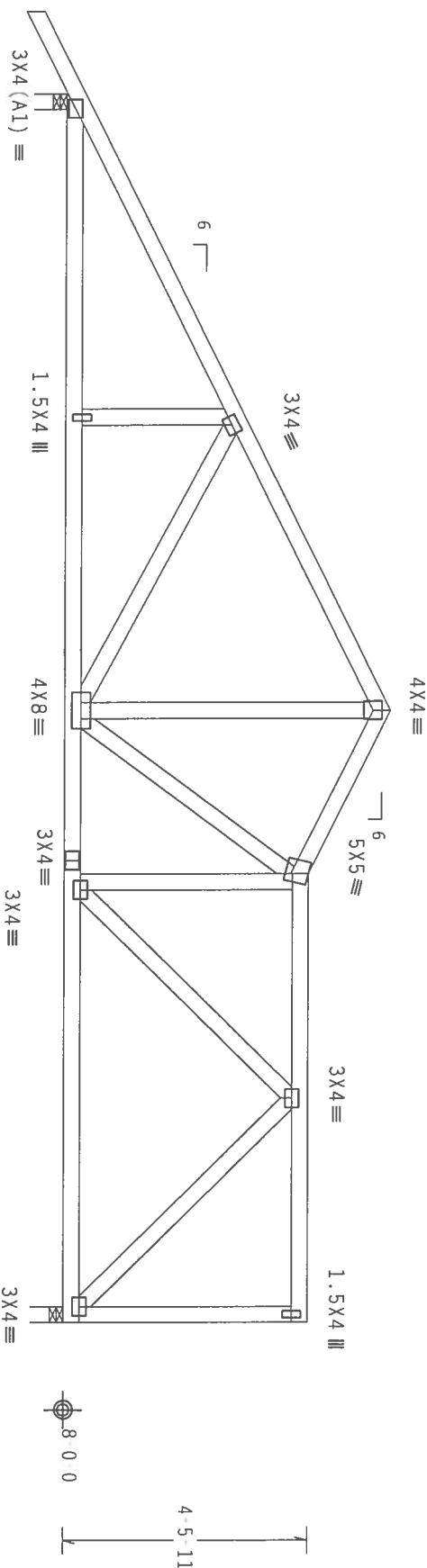
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 gcpl (+/-)=0.18

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.



11-3-0  
3-0-0  
8-3-0  
22-6-0 Over 2 Supports  
R-1037 U-94 W-3.5"  
R-916 U-98 W-3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/10.0)

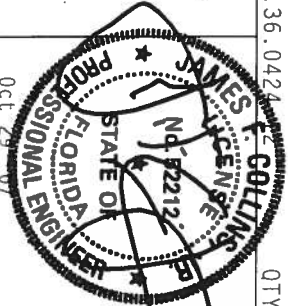
QTY: 1 FL/-/4/-/E/R/-

Scale = .3125"/Ft.

\*\*WARNING\*\* TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSEI (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 0770



TC LL	20.0 PSF	REF R8228 - 43474
TC DL	10.0 PSF	DATE 10/29/07
BC DL	10.0 PSF	DRW HCUSR8228 07302046
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEON- 23883
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TC08228206



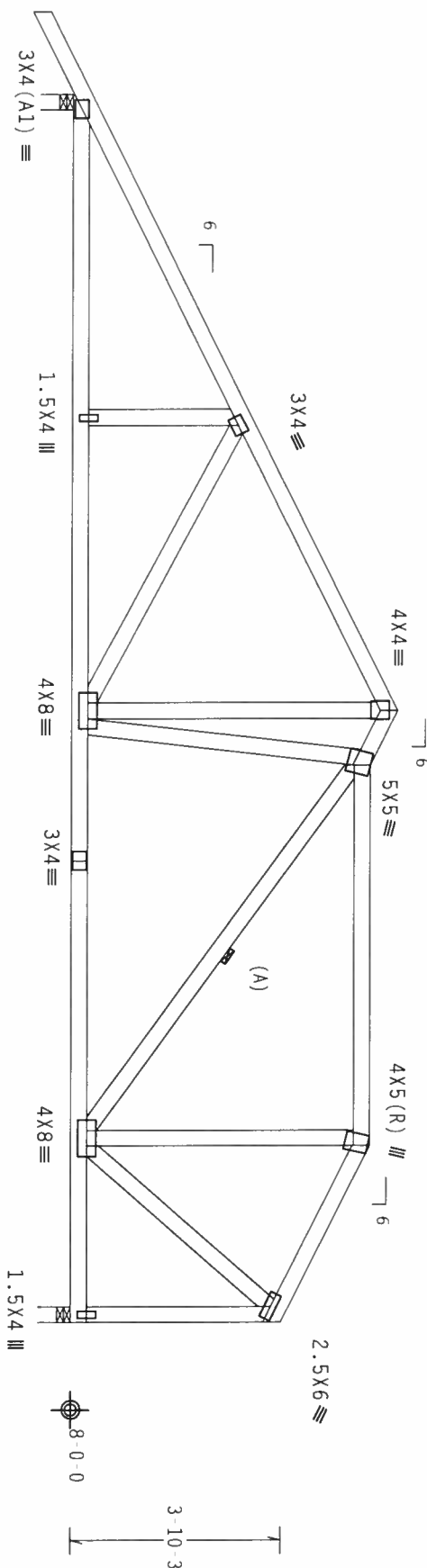
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind; 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, note located within 4.50 ft from roof edge, CAT 11, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 gcpi (+/-)=0.18

Wind reactions based on MMFRS pressures.

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.

[illegible]

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424 QTY:1 FL/-/4/-/E/R/-

QTY:1

Scale = .3125"/Ft.

**"WARNING"**—TRUCKS BEING USED CASE IN FAMILIATION, SHIPPING, INSTALLING AND DRAGGING. REFER TO MCSI (BUT NOT THE COMPANY'S SAFETY INFORMATION), PUBLISHED BY THE TRUSS PAINT INSTITUTE, 218 NORTH 1ST STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (GOOD TRUSSING COUNCIL OF AMERICA, 6500 MIDWAY PARKWAY, SUITE 517) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PARTS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CLIPPING.

JAMES I. COLLINS  
LICENSE  
NO. B2212

TC LL	20.0 PSF	REF	R8228 - 43475
TC DL	10.0 PSF	DATE	10/29/07

REF	R8228 - 43475
DATE	10/29/07

ALPINE

**ITW Building Components Group, Inc.**

FL Certificate of Authorization # 00779

Professional Engineer Seal for the State of Florida, No. B212. The seal includes the text "STATE OF FLORIDA", "PROFESSIONAL ENGINEER", and "No. B212". Handwritten text includes "12-24-07" and a signature.

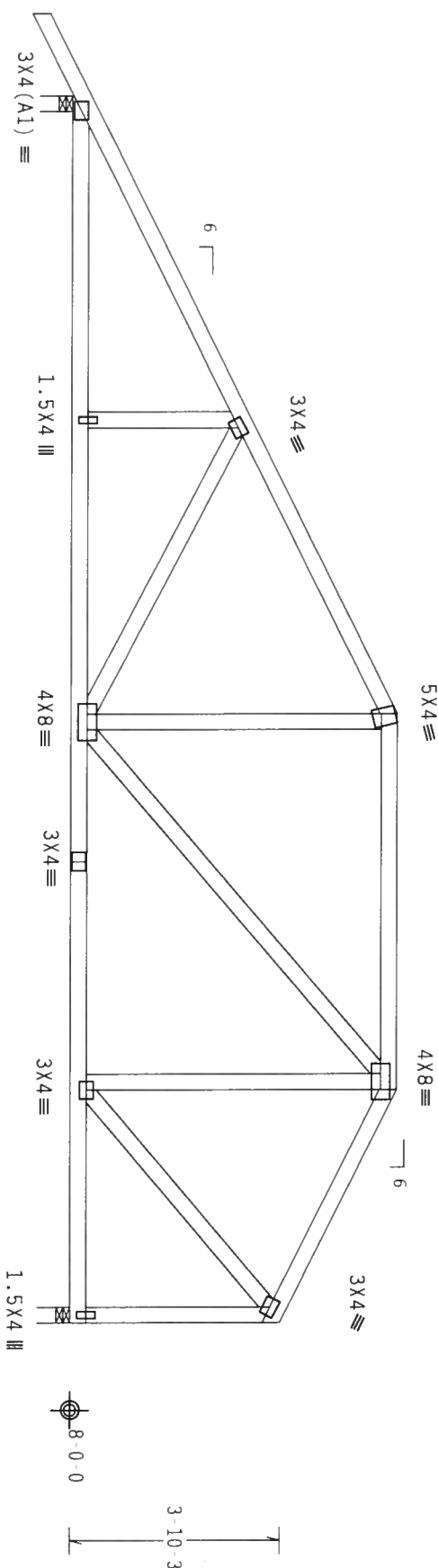
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TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCHSR8228 07302047
BC LL	0.0 PSF	HC-ENG	JB/AP *
TOT.LD.	40.0 PSF	SEQN-	23888
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf lw=1.00 GCPI(+/-)=0.18

Wind reactions based on MWRFS pressures.

Right end vertical not exposed to wind pressure.

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



✓ 1-6-0

Diagram showing the elevation of a beam with the following dimensions and labels:

- Overall length: 22-6-0 Over 2 Supports
- Segment 1 (Left): 11-3-8
- Segment 2 (Middle): 6-11-0
- Segment 3 (Right): 4-3-8
- Left end label: R=1037 U=98 W=3.5"
- Right end label: R=916 U=93 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

 $Cq/RT=1.00(1.25)/10(0)$ 

7.36.0424

QTY:1 FL/-/4/-/E/R/-

Scale = .3125"/Ft.

**\*WARNING\***—PRIESTS IN OTHER EXTREM CASES IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PRACTICING TO DECEIT (BUILDING COMPETENT SAFETY INFORMATION). PUBLISHED BY THE GRISS PAPER INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND NICK GOOD PRISING COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES TO PREVENTING HURST FUNCTIONS. UNLESS INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED TOP CHORD CELLING.

**\*\*IMPORTANT\*\***FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITH BCG, INC. SHALL NOT

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TROSS IN CONFORMANCE WITH IT, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, OR OTHERS. CONTRACTORS WILL ASSUME RESPONSIBILITIES OF ANY ADDITIONAL DESIGN ERROR.

CONNECTIONS SHALL BE AFFIXED TO PROTECTORS OF MINIMUM THICKNESS 0.015 IN. (0.38 MM) AND 171. CONNECTOR PLATES ARE MADE OF 20/18/1664 (H./H./SS/K) ASH A653 GRADE 40/60 (H./K./SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2

ANY INSPECTION OF PAILES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPII 2002 SEC 3. A SEAL ON THIS DRAINING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

1000 JOURNAL OF POST KEYNESIAN ECONOMICS

[illegible]

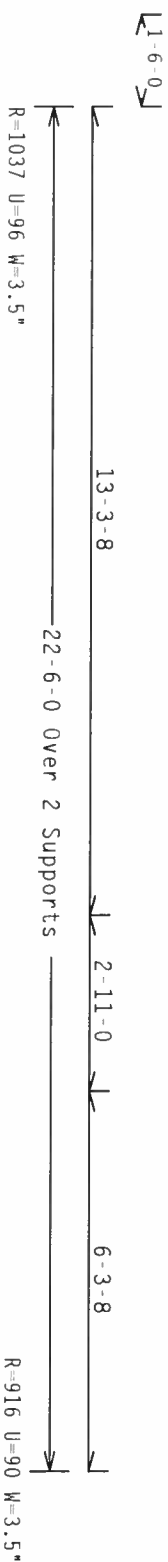
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TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCSUR8228 07302048
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN -	23893
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	ITC08228206

SPACING 24.0" | JREF - 1TC08228Z06

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf Iw=1.00 GCPI (+/-)=0.18

Wind reactions based on MFRS pressures.

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



Scale = .3125"/Ft.

**\*\*IMPORTANT\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM DCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH ITM OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

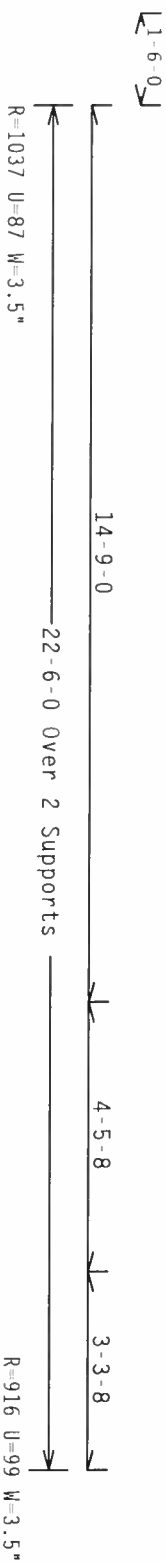
Scale = .3125"/ft.	
HL / 4 - E/R -	
TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"
REF R8228 - 43477	
DATE	10/29/07
DRW HCUR8228 07302049	
HC-ENG JB/AP	*
SEON - 23900	
FROM AH	
JREF - 1TC08228Z06	

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf Iw=1.00 GCPI (+/-)=0.18

Wind reactions based on MWRFS pressures.

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.



Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

 $Cq/RT=1.00(1.25)/10(0)$ 

7.36.0424

QTY:1

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

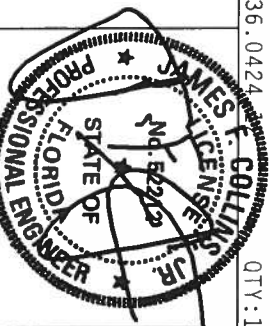
Scale = .3125"/Ft.

\*WARNING\* FRUIT, BRINDING, EXTERNAL CASE IN FERTILIZATION, HANDLING, SHIPPING, INSTALLING AND BRACING RIES TO ACES (BRINDING COMPONENT SAFETY INFORMATION). PUBLISHED BY THE (FRUIT PLANT INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK GARDEN TRUSS COMPANY OF AMERICA, 65000 MIDWAY, WINTER LAKE, FL 32789 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNDESIGNED, UNDESIGNED OR OTHERWISE INDICATED FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCUTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

ALPINE

**ITW Building Components Group, Inc.**

FL Certificate of Authorization # 0377

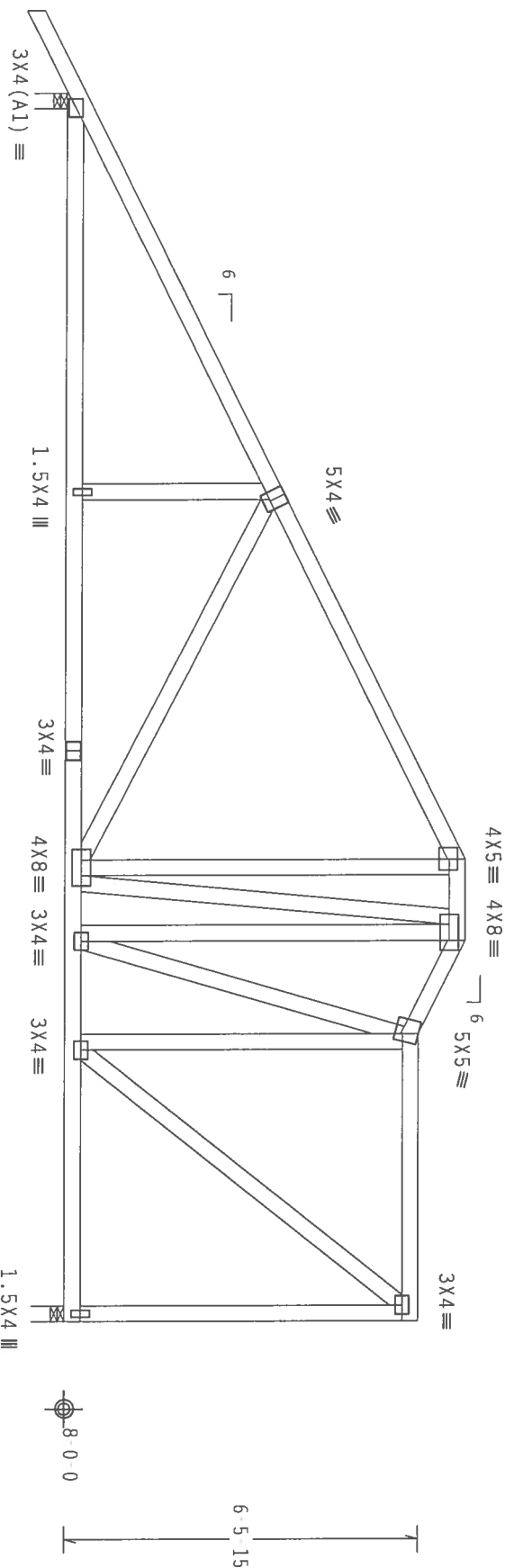


Oct 29 07

TC LL	20.0 PSF	REF	R8228-43478
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302050
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEQN-	23908
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06

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

110 mph w/d, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT I, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  Gcpi(+/-) 0.18



✓0917

R=1035 U=82 W=3.5"

---

-22-6-0 Over 2 Supports

1-6-0 1-8-8

R=916 U=108 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

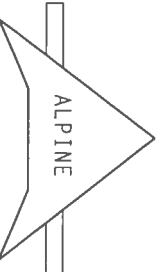
 $Cq/RT=1.00(1.25)/10(0)$ 

7.36.0424

QTY:1

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

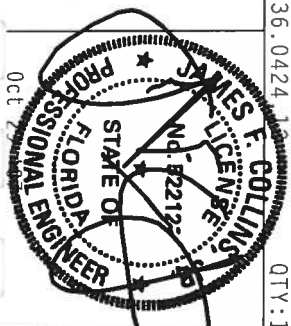
Scale = .3125"/Ft.



**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization #00700

**\*\*WARNING\*\***\* TRUSS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DESIG. (BUILDING CONTRACTOR SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WCA (WOOD TRUSS COMPANY), ONE AMERICA CENTERPARK LANE, MANASSAS, VA, 54709 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED FIELD CEILING.

**\*\*IMPORTANT\*\***\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE B.C.G., INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. IT IS THE RESPONSIBILITY OF THE TRUSSES TO CONFORMANCE WITH TPI OR IF FABRICATING, HANDLING, SHIPPING, OR INSTALLING THE TRUSSES TO CONFORMANCE WITH THE DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC.) BY AREA# AND TPI. THE BCG WILL PROVIDE AN APPROVED SET OF DRAWINGS TO THE TRUSS MANUFACTURER. THE TRUSS MANUFACTURER SHALL CONNECTOR PLATES ARE MADE OF 2010/6064 (ALUMINUM) ASH AL65 GRADE 40/60 IN C/W/S5. GALV. STEEL APRIL 1994. ALL VIEWS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2. ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE PER AMEX AT 1% OF TPI 2002 SEC 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLLEY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228-43479
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCU8R8228 07302051
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON-	23913
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wabs	2x4	SP	#3	

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf  $I_w=1.00$  GCPI(+/-)=0.18

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.

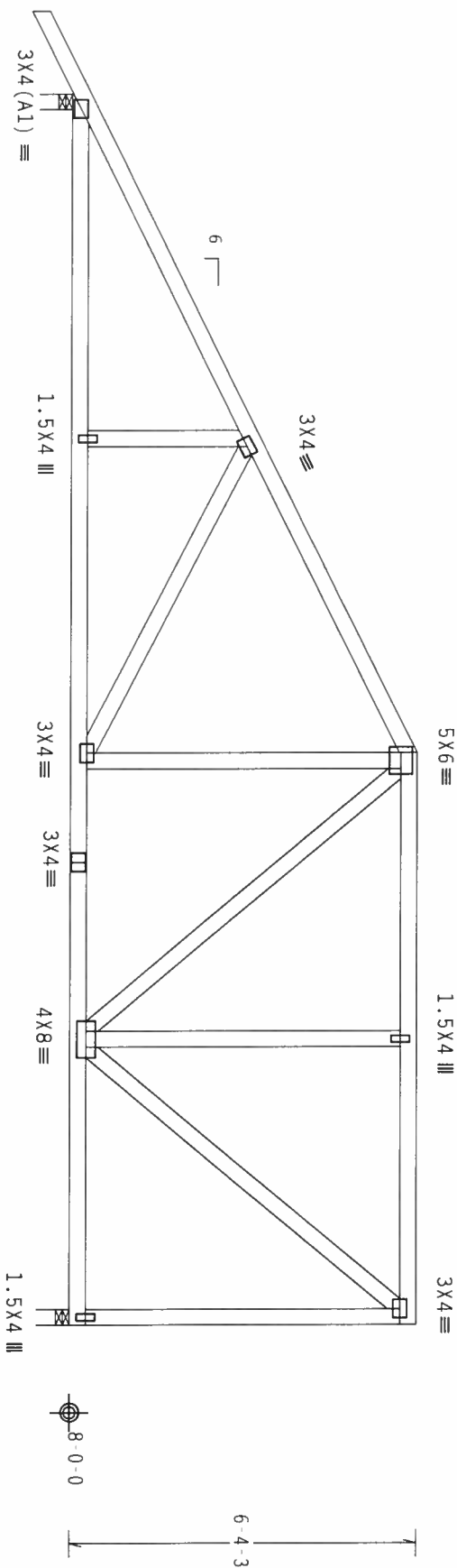


Diagram showing the elevation of a beam with the following dimensions and support locations:

- Left support:  $R=1037$  U-86 W=3.5"
- Span 1: 12-0-0
- Span 2: 22-6-0 Over 2 Supports
- Span 3: 10-6-0
- Right support:  $R=916$  U=111 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

7.36.0424

QTY:1

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

Scale = .3125"/Ft.

\*WARNING\* \*\*FRIES, RICHARD EXPERT CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC51 (BUILDING CONSTRUCTION SAFETY INFORMATION). PUBLISHED BY TPI (FRIES PAPER INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (GOOD PRACTICE COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO IMPROVING THESE STRUCTURES. UNDESIRABLE TONED/STAINED INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED FIELD CEILING.

**\*\*IMPORTANT\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT

111; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & GRACING OF TRUSSES.

PLATES TO EACH FACE OF TRUSS AND UNIFORM DISTANCE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 160A & 160B. CONSTRUCTION & CALCULATIONS SHALL BE 20/10/1000 (W, 10/33/6) WITH 2000 GRADE 40/50 (W, 4/11/33) GALV. STEEL. APPLT.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/APA 1 SEC. 2.

Category	18-24	25-34	35-44	45-54	55-64	65+
Total	15%	25%	20%	20%	15%	5%
Male	18%	28%	22%	20%	12%	2%
Female	12%	22%	18%	20%	20%	8%
Male	15%	25%	20%	20%	15%	5%
Female	18%	28%	22%	20%	12%	2%

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 00778

1

DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	1TC08228206





(7 310 Cason Construction MATT CASON , \*\* H11BT)

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

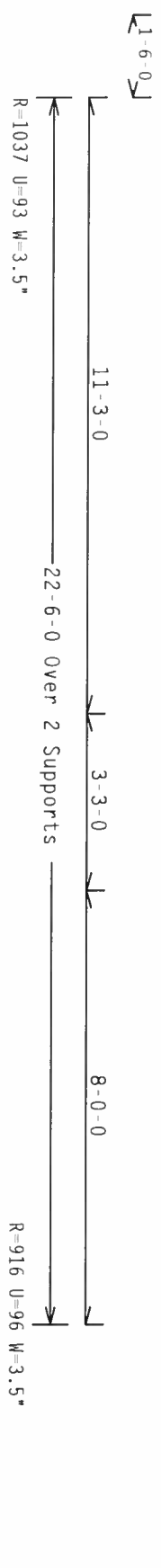
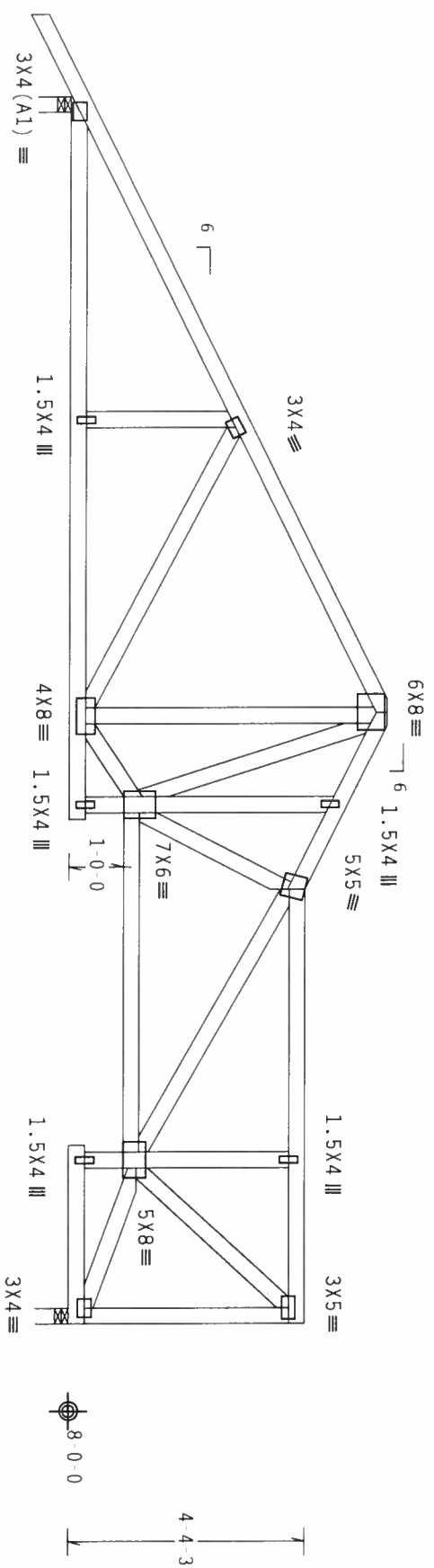
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf,  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

QTY: 1

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

Scale = .3125"/Ft.

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 0778

**ALPINE**

**WARNING\*\*** TRUSSES REQUIRE EXISTING CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO DECSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 INTERSTATE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF THE TRUSS IN CONFORMANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO DECSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 INTERSTATE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF THE TRUSS IN CONFORMANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO DECSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 INTERSTATE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF 10/11/2002 SEC. 2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/FP 1 SEC. 2.**

**JAMES F. COLLING**  
PROFESSIONAL ENGINEER  
STATE OF FLORIDA  
No. 62242  
Oct 2002

TC LL	20.0 PSF	REF	R8228 - 43482
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCSR8228 07302054
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON	24070
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF	1TC08228206



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**2 COMPLETE TRUSSES REQUIRED** 

**Nailing Schedule:** (10d Box or Gun (0.128"x3", min.)\_nails)

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

in each row to avoid splitting.

in each row to avoid splitting.

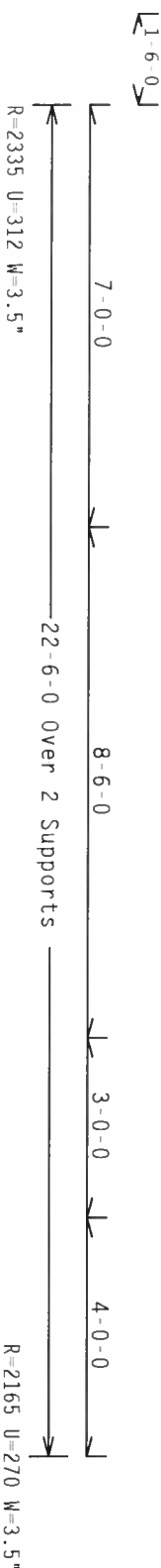
wind BC DL=5.0 psf. IW=1.00 GCPI(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right 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.



Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

7.36.0424 12 QTY:1

QTY:1 FL/-/4/-/E/R/-

Scale = .3125"/Ft.

\*\*\*WARNING\*\*\*: PANELS REQUIRE EXERCISE CARE IN FABRICATION, INSTALLING, SHIPPING, UNLOADING, UNPACKING, AND BRACING. REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP1 (THUSS PAPER INSTITUTE), 219 HONNIE LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MICA (GOOD PRACTICES) OF AMERICA, 6400 ENTERPRISE LANE, HUNTSVILLE, MI 48831 FOR SAFETY PRACTICES TO PERFORM THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP GIRDOR SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GIRDOR SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

BE RESPONSIBLE FOR ANY EVALUATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH ANTI-WEAR PROVISIONS OF THE CONTRACTUAL DESIGN SHALL BE AFFECTED AND NOT BE RESPONSIBLE FOR ANY EVALUATION, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

CONNECTIONS OF ALL PLATE LUGS SHALL BE MADE TO THE MAIN CHASSIS RAIL OR ITS EQUIVALENT BY MEANS OF A MINIMUM OF TWO BOLTS PER CONNECTION. THE BOLTS SHALL BE OF A MINIMUM OF 1/2 IN DIA. AND SHALL BE OF A MINIMUM OF 60,000 PSI TENSILE STRENGTH. THE BOLTS SHALL BE OF A MINIMUM OF 1/2 IN DIA. AND SHALL BE OF A MINIMUM OF 60,000 PSI TENSILE STRENGTH.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERMITTED BY THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOW. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/AP1 1 SEC. 2.

TC LL	20.0 PSF	REF	R8228- 43484
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302070
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	24102
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $1w=1.00 G_{cpi}(+/-)=0.18$

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

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

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

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.

SEE DRW HCUSR001 02086015 FOR GABLE DETAILS.



Design Crit:  $TPI-2002(STD)/FBC$   
 $Cq/RT=1.00(1.25)$

 $Cq/RT=1.00(1.25)/10(0)$ 

7.36.0424

QTY:1

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

Scale = .5" / Ft.

STATE OF CALIFORNIA  
JAMES E. COLLINS  
SCIENCE  
JR.  
MD. 65226

**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE PRODUCT.

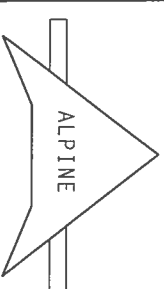
BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IT; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

TESTED COMBINES THE APPLICABLE PROVISIONS OF 805 (NATIONAL DESIGN SPEC., BY AIAA) AND 1P1. ITS BRACKET CONNECTOR PLATES ARE MADE OF 20/18/16GA (M, K/H, 55/K) ASTM A653 GRADE 40/60 (M, K/H, 55) GALV. STEEL. PLATES IN EACH FACT OR THOUS AND DIFFERS ORIGINATED ON THAT DESIGN POSITION ARE PROVIDED FOR.

UNLESS OTHERWISE SPECIFIED, THE POSITION PER DRAWING SHALL BE THE POSITION OF THE PLATE FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11 2002 SEC. 3.

DESIGN SHOWN THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PFR A051/TP1 1 SEC. 2.

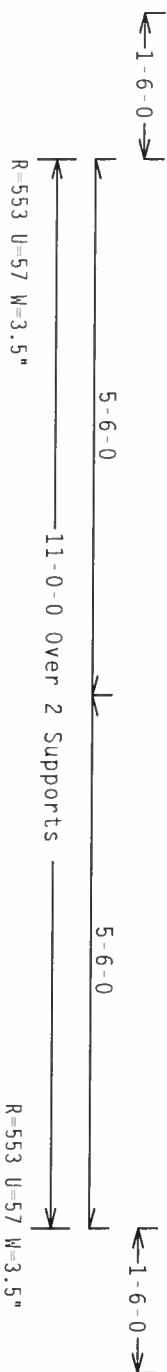
**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 0 770



TC LL	20.0 PSF	REF	R8228-43485
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCSUR8228 07302071
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON-	23923
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TC08228206

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCPI(+/-)=0.18

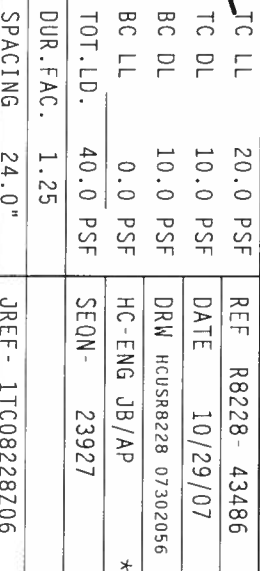
Wind reactions based on MWFRS pressures.



Scale = .5" / Ft.

THE CONTRACTOR SHALL FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

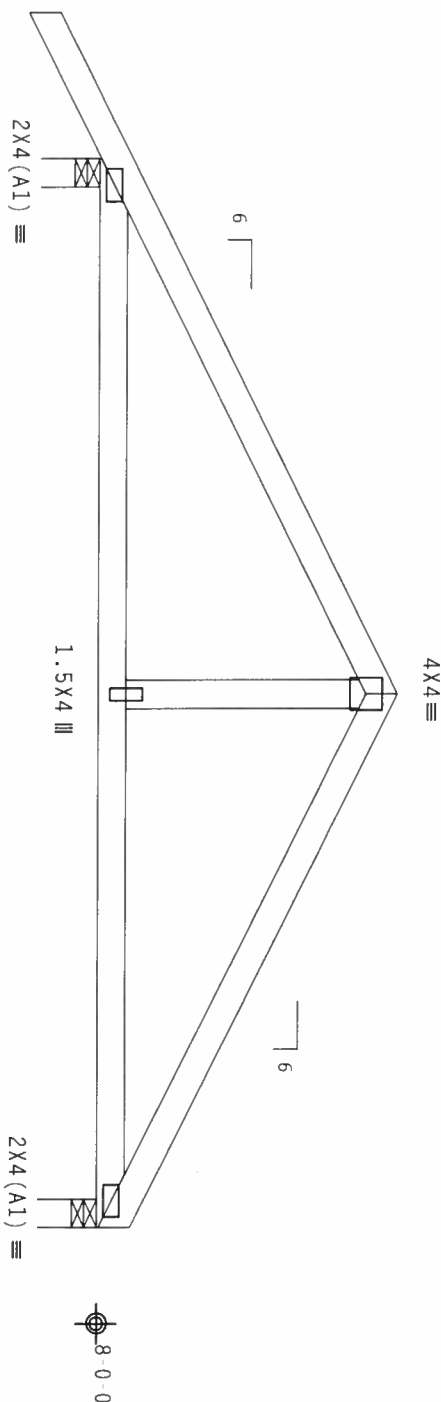
FL Certificate of Authorization # 0070



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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf lw=1.00 GCpl(+/-)=0.18

Wind reactions based on M/WFRS pressures.



0-9-1

0-6-5

-11-0-0 Over 2 Supports

0-9-5

R=562 U=59 W=3.5"

R=445 U=37 W=3.5''

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

 $Cq/RT=1.00(1.25)/10(0)$ 

7.36.0424.12

QTY:1

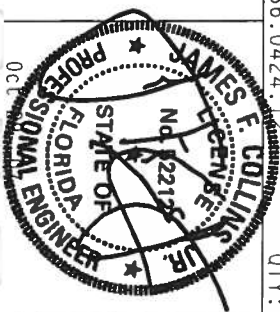
FL/-/4/-/E/R/-

Scale = .5"/Ft.

**\*WARNING\*** FRIGES, REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND MAINTAINING. REFER TO DESI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PRACTICE INSTITUTE, 218 NORTH 1ST STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MICA (6000) TRUSS COMPANY OF AMERICA, 63000 CENTENNIAL BLVD., SUITE 500, ST. LOUIS, MO, 63120 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED, THE TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUTS, AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED KICK CLANG.

ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 01790



TC LL	20.0 PSF	REF	R8228-43487
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCSUR8228 07302057
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEQN-	23931
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TC08228Z06

	From	62 PLF at 1.50 to	62 PLF at 1.50 to
TC	From	62 PLF at 1.50 to	62 PLF at 1.50 to
TC	From	62 PLF at 1.50 to	62 PLF at 1.50 to
BC	From	4 PLF at 1.50 to	4 PLF at 0.00 to
BC	From	20 PLF at 0.00 to	20 PLF at 11.00 to
BC	35.9 LB Conc.	Load at 7.06	
BC	108.4 LB Conc.	Load at 9.06	

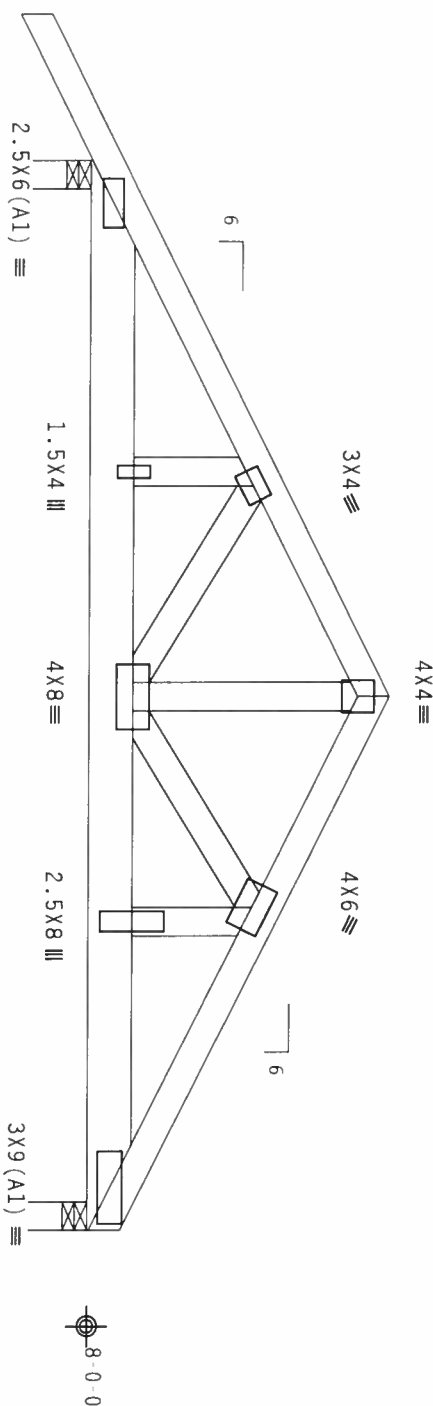
Wind reactions based on MIFRS pressures.

Nailing Schedule: (10d\_Box\_or\_Gun\_(0.128"x3",\_min.)\_nails)

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC D1=5.0 psf, wind BC D1=5.0 psf, Iw=1.00 Gcp(+/-)=0.18

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



1.60

Diagram of a beam with two supports. The left support is at the left end, and the right support is at the right end. The beam is divided into two equal segments of 5.6-0. The total length is 11-0-0. The beam is labeled "Over 2 Supports". The beam is labeled "R=2010 U=246 W=3.5"

PLT TYP. Wave

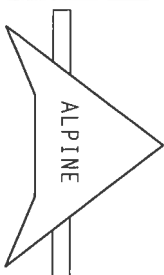
Design Crit:  $TPI-2002(STD)/FBC$   
 $Cq/RT=1.00(1.25)$

$$Cq/RT=1.00(1.25)/10(0)$$

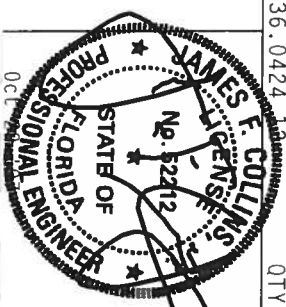
7.36.0424 13

QTY:1 FL/-/4/-/E/R/-

Scale = .5"/Ft.



**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 0077

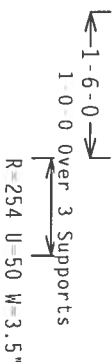


TC LL	20.0 PSF	REF	R8228- 43488
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302072
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	24107
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TTC08228206



Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCPI(+/-)=0.18



Design Crit:  $TPI-2002(STD)/FBC$   
 $Cq/RT=1.00(1.25)$

 $Cq/RT=1.00(1.25)/10(0)$ 

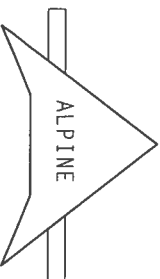
7.36.0424 1.

QTY:1

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

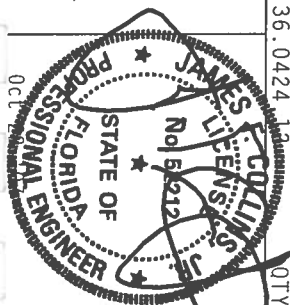
Scale = .5"/Ft.

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 0077



**\*\*WARNING\*\***\* THESE BUILDING EXHIBIT CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PRACTICE REFER TO RCSI (BUILDING COMPONENT CASE INFORMATION) PUBLISHED BY IPT (TIRISS PAPER INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NICKI GOOD TRUSS COMPANY OF AMERICA, 6900 ENTERPRISE LAKE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GROUND SHALL HAVE A PROPERLY ATTACHED BRIDGE CEILING.

**\*\*IMPORTANT\*\***\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITC BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IPT OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE REQUIREMENTS OR MODS (NATIONAL DESIGN CODE, BY AIRPA) AND IPT. DESIGN CONFORMS WITH APPLICABLE REQUIREMENTS OR MODS (NATIONAL DESIGN CODE, BY AIRPA) AND IPT. DESIGN CONFORMS WITH APPLICABLE REQUIREMENTS OR MODS (NATIONAL DESIGN CODE, BY AIRPA) AND IPT. APPLY PLATES TO EACH FACE OF TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY VARIATION OF PLATES FOLLOWED BY (C) SHALL BE PER AIRPA AS OF IPT1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWS THE STABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/PET 1 SEC. 2.



FL/-4/-E/R/-		Scale = .5"/Ft.
TC LL	20.0 PSF	REF R8228 43489
TC DL	10.0 PSF	DATE 10/29/07
BC DL	10.0 PSF	DRW HCSR8228 07302066
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEQN 23835
DUR.FAC.	1.25	FROM AH
SPACING 24.0"		JREF 1TC08228Z06

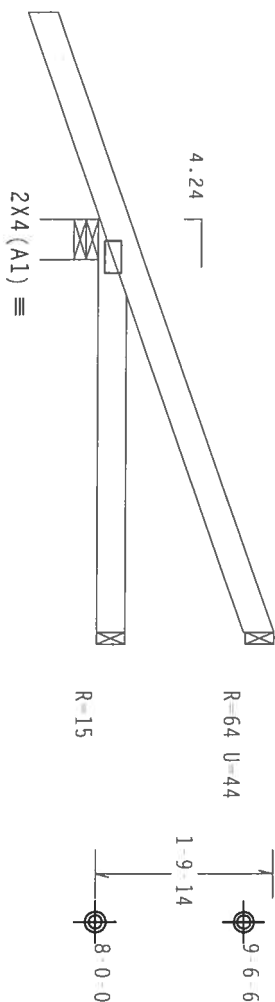
Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCrI(+/-)=0.18

Wind reactions based on MWFRS pressures.

SPECIAL LOADS			
	(LUMBER	DUR.FAC.=1.25 /	PLATE DUR.FAC.=1.25)
TC	From	61 PLF at -2.12 to	61 PLF at 4.24
BC	From	4 PLF at -2.12 to	4 PLF at 0.00
BC	From	20 PLF at 0.00 to	20 PLF at 4.24
TC	111 LB Conc. Load at	1.48	
BC	31 LB Conc. Load at	1.48	

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


$$\overleftrightarrow{2.1.7}$$

← 4-2-15 Over 3 Supports →  
R=262 U=144 W=4.95"

PLT TYP. Wave

Design Crit:  $TPI-2002(STD)/FBC$   
 $Cq/RT=1.00(1.25)$

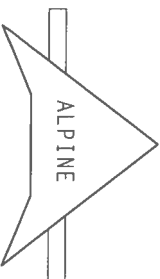
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7.36.0424

QTY:1

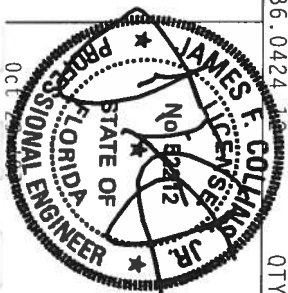
FL-141-E/R-

Scale = .5" / Ft.



**ITW Building Components Group, Inc.**  
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FL Certificate of Authorization # 00770

\*\*\*\*\*WARNING\*\*\*\*\* FRIGES, RIGID, EXTERIOR, CAME TO FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO ACSEI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE (FRSS) PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND AISC (AISC) 3600I, STEEL CONSTRUCTION OF AMERICA, ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO TRANSFERRING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

[illegible]

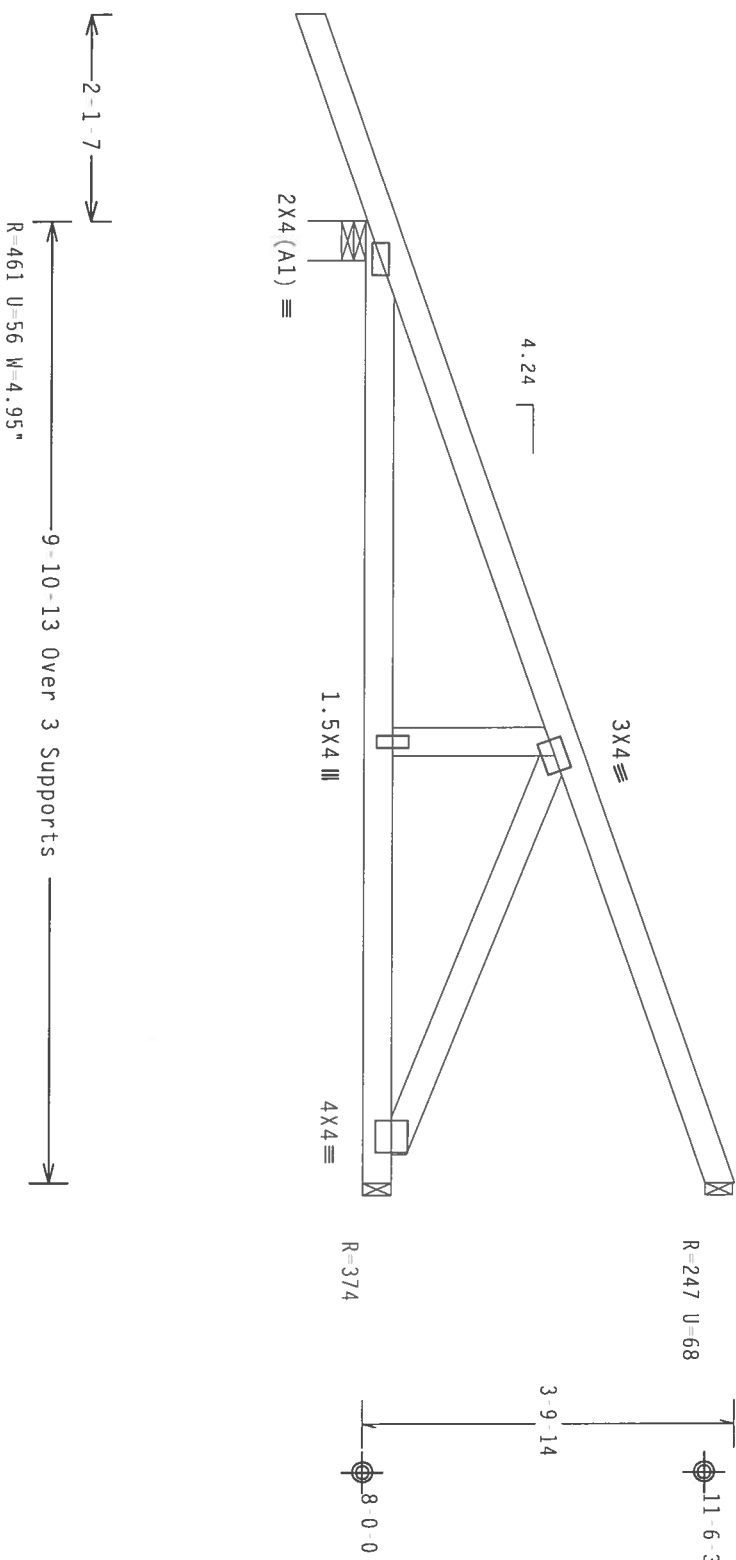
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TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302073
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	23862
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06

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

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

Wind reactions based on MWFRS pressures.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)  
Cq/RT=1.00(1

7.37.0521-1 QTY:1

QTY:1 FL/-/4/-/E/R/-

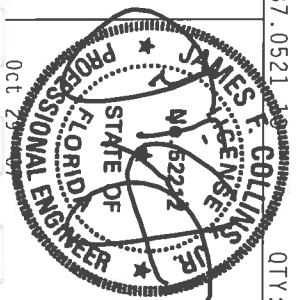
Scale = .5"/Ft.

\* \* \* WARNING \* \* \*

THESE RIGID EXTRUDING CASES IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PROTECTING TO GETS (BUILDING COMPONENTS) SAFETY INFORMATION. PUBLISHED BY THE FIBER PLASTIC INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WICK GOOD RESS COMPANY OF AMERICA, 65000 ENTERPRISE LAKE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GROUND SHALL HAVE PROPERLY ATTACHED GRID CEILING.

ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 0779



TC LL	20.0 PSF	REF	R8228- 43491
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302074
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	5149 REV
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06

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

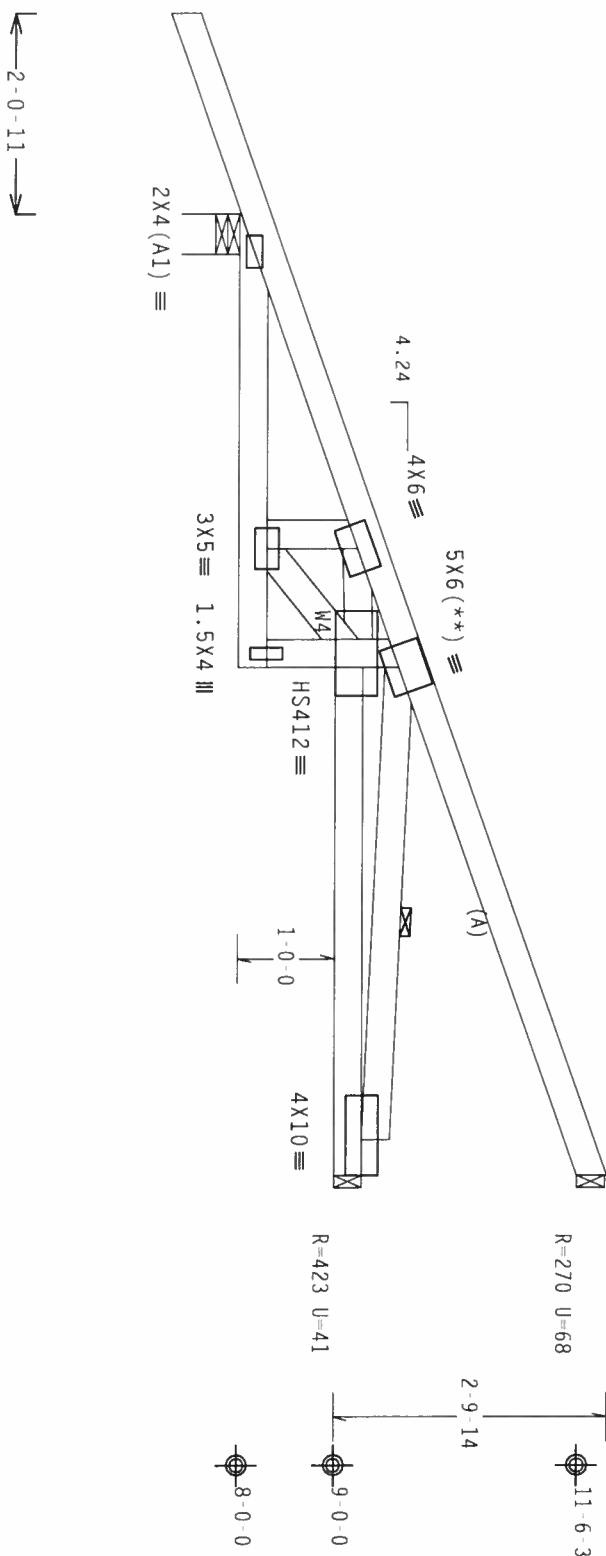
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 Gcpi(+/-)-0.18

Wind reactions based on MwFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

SPECIAL LOADS			
	(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)		
TC -	From	61 PLF at -2.06 to	61 PLF at 9.90
BC -	From	4 PLF at -2.06 to	4 PLF at 0.00
BC -	From	20 PLF at 0.00 to	20 PLF at 4.66
BC -	From	20 PLF at 4.66 to	20 PLF at 9.90
TC -	111 LB Conc.	load at	1.48
TC -	124 LB Conc.	load at	4.31
TC -	292 LB Conc.	load at	7.13
BC -	31 LB Conc.	load at	1.48
BC -	48 LB Conc.	load at	4.31
BC -	71 LB Conc.	load at	7.13

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



4-7-14  
9-10-13 Over 3 Supports  
5-2-15

PLT TYP. 20 Gauge HS, Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

7.36.0424.13

QTY: 1

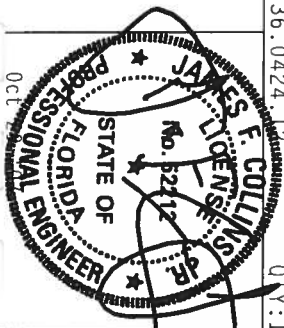
FL/-/4/-/E/R/-

Scale = .5"/Ft.

11-**WARNING:**—RISKS OF RUPTURE, EXTREME COLD, INFLAMMATION, HANDLING, SHIPPING, INSTALLING AND BRACING ARE TO BE FOLLOWED TO PREVENT PERSONAL INJURY OR PROPERTY DAMAGE. (BUILDDOWN COMPONENT IN CASE OF EMERGENCY). PUBLISHED BY THE GROSS PLATE INSTITUTE, 218 NORTH 1ST STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MICA GOOD RINGS COMPANY, OF AMERICA, 65000 KENNEDY ENTERPRISE BLVD., HANNOVER, NH 03753 FOR SALES PRACTICES PRIOR TO PURSUING THESE FUNCTIONS. INTERESTED PARTIES SHOULD INDICATE THAT CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PARTS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CILLINE.

ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 0 7790



TC LL	20.0 PSF	REF	R8228-43492
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCURS8228 07302075
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON	23961
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	UREF-	1TC08228206



Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $1w=1.00$  GCPI(+/-)=0.18

Wind reactions based on MIFRS pressures.

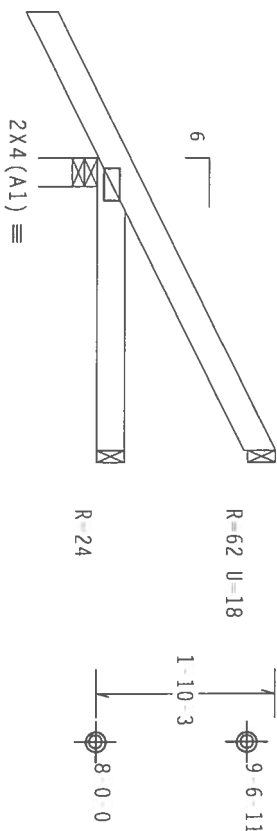


Diagram of a beam with a uniformly distributed load of 1.60 k/ft and three supports. The beam is divided into three equal segments of 30.0 ft each, with a total length of 90.0 ft. The load is labeled "1.60" and the segments are labeled "30.0 Over 3 Supports".

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

 $C_q/RT=1.00(1.25)/10(0)$ 

7.36.0424

QTY:1 FL/-/4/-/E/R/-

Scale = .5"/Ft.

\*\*\*\*\*WARNING\*\*\*\*\* FIBERS REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPMENT, INSTALLATION AND BRACKETING TO AVOID BUILDING COMPONENTS CONTAMINATION. PUBLISHED BY THE FIBERS PAPER INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND P.O. BOX 6000 FERRIS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, SUITE 150, W-5319 FOR SAFETY PRACTICES AND PRECAUTIONS THESE INSTRUCTIONS, UNLESS OTHERWISE INDICATED, FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUTURAL PARTS, AND BOTTOM GROUND SHALL HAVE PROPERLY ATTACHED FIELD CELLING.

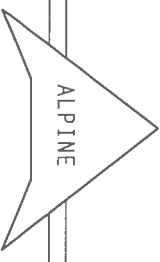
**\*\*IMPORTANT\*\* FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. IIM REG, INC. SHALL NOT**

TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.M/SS/K) ASTM A653 GRADE 40/60 (W. K/H,SS) GALV. STEEL. APPLY

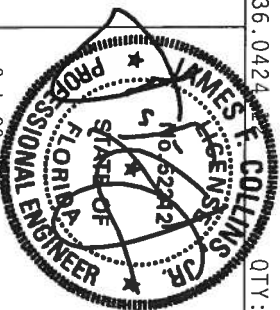
ANY INSPECTION OF PLATE FOLLOWED BY (1) SHAL. RT. PER ANNEX A3 OF TP1-2002 SEC.3. A SEAL ON THIS

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



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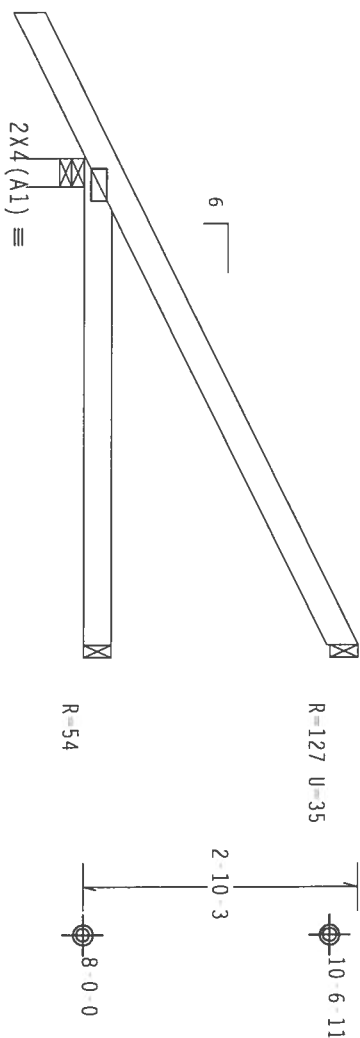
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TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302058
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEON-	23843
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	1TC08228Z06

	Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense	

Wind reactions based on MAFRS pressures.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf,  $I_w=1.0$  Gcpl(+)=0.18

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



1601

5-0-0 Over 3 Supports —————  
R=331 U=25 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

 $Cq/RT=1.00(1.25)/10(0)$ 

7.36.0424

QTY:1

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

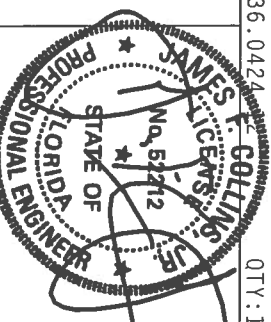
Scale = .5"/Ft.

**\*WARNING\*** THESE RIGGING EXISTING CASE IN INFORMATION, HANDLING, SHIPPING, INSTALLING AND PRACTICE REFER TO ACSEI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATING INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISI (STEEL BUILDING CODES) OF AMERICA, 65000 ENTERPRISE BLVD., SUITE #11579 FOR SAFETY PRACTICES NEEDED TO PERFORM THESE FUNCTIONS. UNDESIRABLE, OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

**ITW Building Components Group, Inc.**

FL Certificate of Authorization # 0077

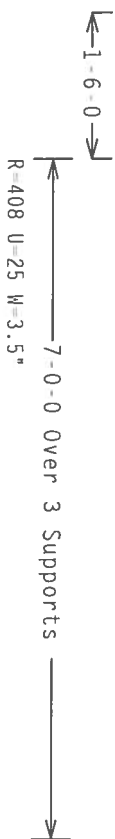


TC LL	20.0 PSF	REF	R8228- 43495
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUS88228 0730213
BC LL	0.0 PSF	HC-ENG RA/AP	*
TOT.LD.	40.0 PSF	SEQN-	41733
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06



	Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense	

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, Exp B, wind TC DL-5.0 psf, wind BC DL-5.0 psf. 1w=1.00 gcpi (+/-) -0.18



Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

7.36.0424  
QTY: 1 FL/-/4/-/E/R/

Scale = .5" / Ft.

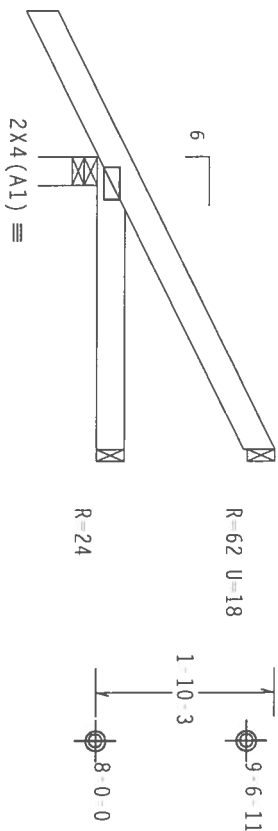
**WARNING:** THESE BUILDING EXPERTISE, IN FABRICATION, HANDLING, SHIPPING, INSTALLATION AND BRACING, REFER TO GC51 (BOLTING COMPOUND IN SAFETY INFORMATION). PUBLISHED BY TPI (TROSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD JOINTS IN CONNECTION WITH THE USE OF AMERICA, 65000 ENTERPRISE LANE, MIDLAND, MI, 48676) FOR SAFETY PRACTICES RELATION TO BRACING THESE STRUCTURES. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 00790

TC LL	20.0 PSF	REF	R8228-43496
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302059
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEQN-	23651
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06

110 mph wind, 15.00 ft mean hgt., ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  GCPI(+/-)=0.18



1-6-0

3 0.0 Over 3 Supports

PLT TYP. Wave

Design Crit:  $TPI - 2002(STD)/FBC$ 
$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424

QTY:1

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

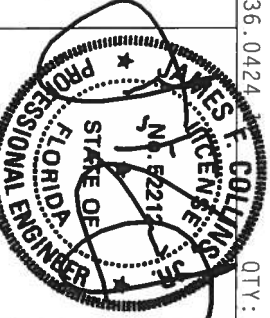
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**WARNING:** PRIORS EXISTING ERECT CASE IN FABRICATION. HANDLING, SHIPPING, INSTALLING AND PRACTICING THIS PRODUCT WITHOUT PROPER TRAINING AND SUPERVISION MAY BE DANGEROUS. SEE INSTRUCTIONS FOR PROPER USE. REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IFI (FIRMS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND IFI (FIRMS COUNCIL OF AMERICA), 6500 CENTERFLEX LANE, MADISON, WI, 53719 FOR SAFETY PRACTICES PRIOR TO GOOD HANDLING THESE PRODUCTS. UNDESIRABLE ORIENTATION INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUTCHORD. PANEL'S AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED CHORD CAPPING.

ALPINE

**ITW Building Components Group, Inc.**

FL Certificate of Authorization # 0 779

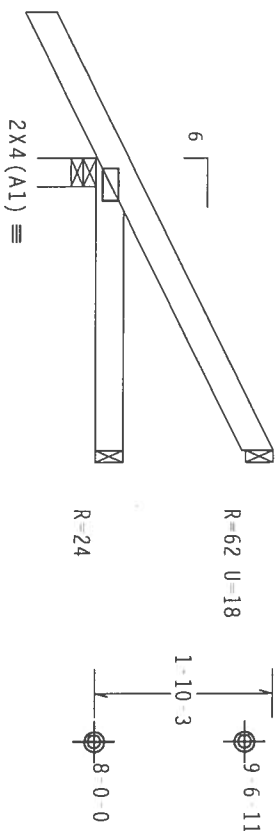


TC LL	20.0 PSF	REF	R8228- 43497
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302060
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	23857
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228206

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

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

110 mph wind, 15.00 ft mean hgt, ASE 7.02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCPI(+/-)=0.18



$\downarrow 1-6-0$ 
  
 $\uparrow 3 \ 0 \ 0 \text{ Over } 3 \text{ Supports}$ 
  
 $R = 262 \text{ U } 26 \text{ W } 3.5''$

PLT TYP. Wave

Design Crit:  $TPI-2002(STD)/FBC$  $Cq/RT=1.00(1.25)/10(0)$ 

7.36.0424

QTY:1

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

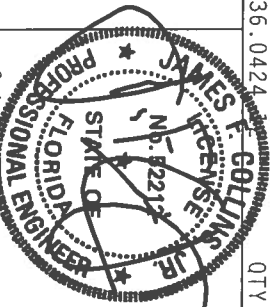
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\*\*\*\*\*WARNING\*\*\*\*\* FIBERS REINFORCED CEMENT CAME IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND PRACTICE REFERENCE TO DCST (DOUBLE END COMPOSITE OF SWEET INFORMATION). PUBLISHED BY FBI (FEDERAL BUREAU OF INVESTIGATION), 218 WITH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 63000 CHERIFANE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES RELATIVE TO PERFORMING HIGH STRENGTH CONCRETE. UNLESS OTHERWISE INDICATED FOR GROUND SHALL HAVE PROPERLY ATTACHED STRAIGHTEN, PANELS AND BOTTOM GROUND SHALL HAVE PROPERLY ATTACHED RIGID CEMENTING.

ALPINE

**ITW Building Components Group, Inc.**

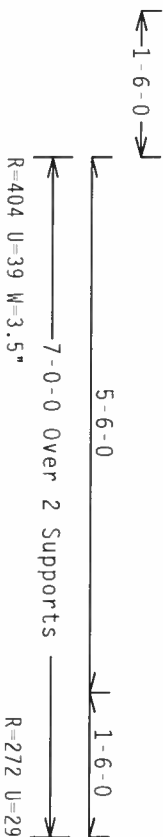
FL Certificate of Authorization # 00779



Oct 29 1967

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TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCU8R8228 07302061
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN	23866
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF	1TC08228Z06

110 mph wind; 15.00 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT 1, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$  gcpi (+/-) 0.18

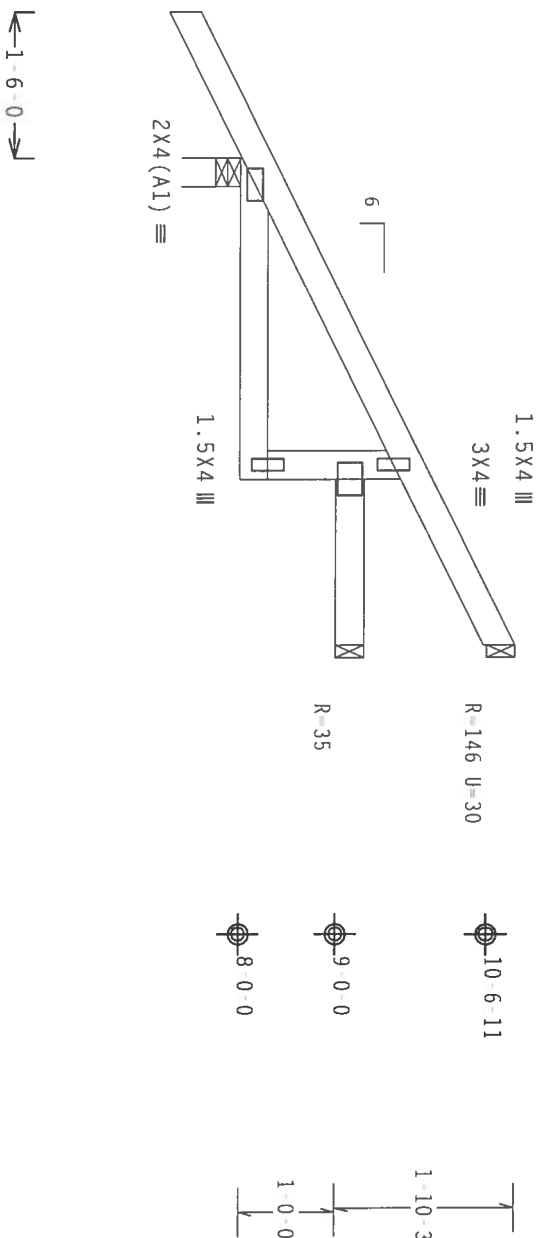


Scale = .5"/Ft.

IC LL	20.0 PSF	REF	R8228- 43499
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCU8R8228 07302062
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEON-	23937
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	ITC08228206

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D=5.0 psf, wind BC D=5.0 psf  $lw=1.00$  Gcpi (+/-)=0.18



Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424

QTY:1

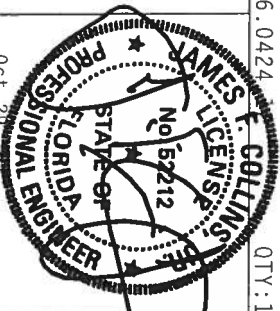
FL/-/4/-/E/R/-

Scale = .5" / Ft

**\*WARNING\*** PANELS (BUILDING EXISTING CASE IN IMITATION), HANDLING, DRIPPING, INSTALLING AND BRACING REFER TO GC#1 (BUILDING CONSTRUCTION SAFETY INFORMATION), PUBLISHED BY THE TRUSS PANEL INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND TRUSS COMPANY OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES AND PRIOR TO PERFORMING THESE ACTIONS, UNDESIGNED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 00796



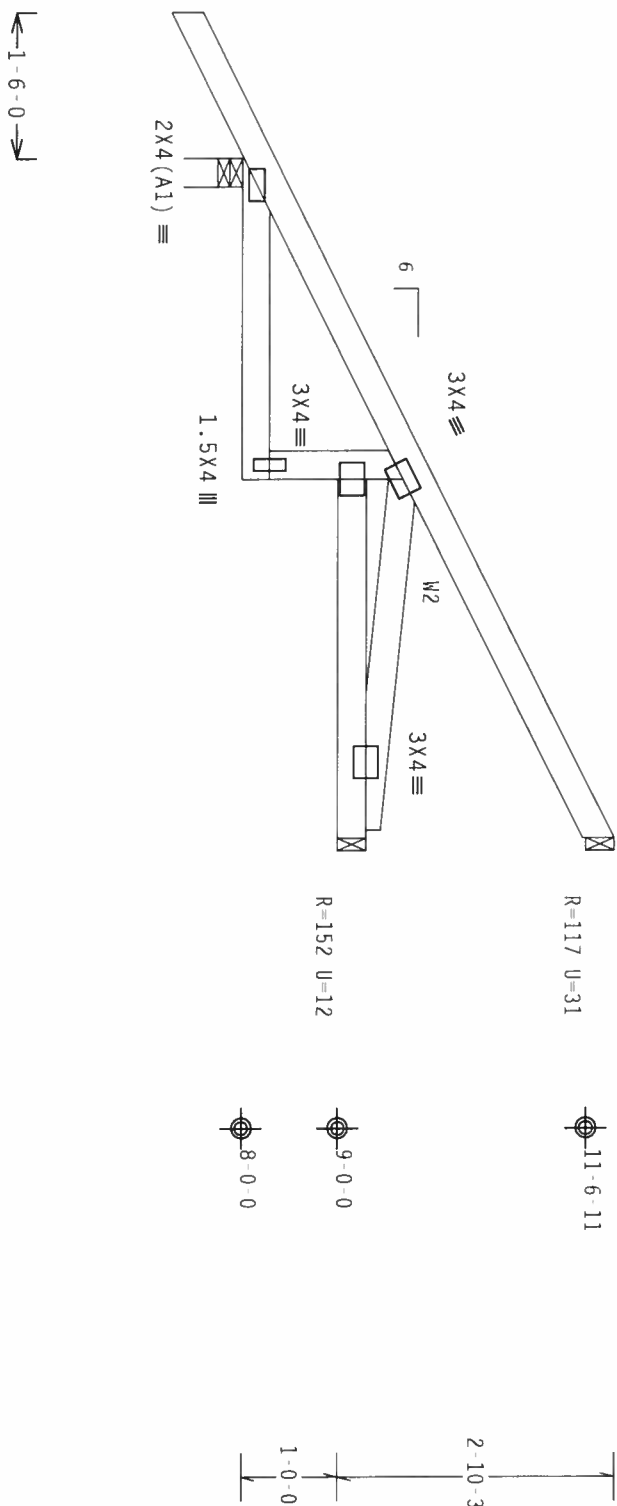
TC LL	20.0 PSF	REF	R8228- 43500
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCSUR8228 07302063
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEON-	23943
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228206

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
	Web	2x4	SP	#2	Dense	

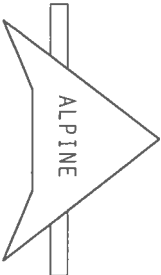
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, 1W=1.00 gcpi(+/-)=0.18

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

Wind reactions based on MWFRS pressures.



PLT TYP. Wave



**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 00790

Design Crit:  $TPI-2002(STD)/FBC$   
 $Cq/RT=1.00(1.25)$

 $Cq/RT=1.00(1.25)/10(0)$ 

7.36.0424.13

QTY:1

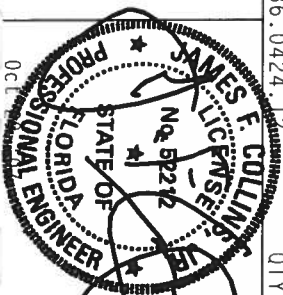
FL/-/4/-/E/R/-

Scale = .5" / Ft.

\*WARNING\* THESE BUILDING EXISTING CODE IN FAMILICATION, INSTALLING, SHIPPING, INSTALLING AND PROTECTING REFER TO ACSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NICK (GOOD TRUSS COMPANY) OF AMERICA, 65000 CHERRYBARK LANE, SUITE 517, FARMERSVILLE, TX, 75442. THESE PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, THE GOOD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\***URNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE: OR FABRICATING, MANUFACTURING, SHIPPING, INSTALLING BRACING OR TRUSSES.

USDA CONDITIONS ARE APPLICABLE PROVISIONS OF MODULAR DESIGN SPEC. (BY AIRMAIL) AND THE BCG CONDUCTOR PLATES ARE MOD. OF 20/10/166A (H/LI/55/VS) ASTM A653 GRADE 40/60 (H. V./55) GALV. STEEL. APPLY PLATES TO EACH FACE OF THUSMS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1606-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER. ANNEX A3 OF PP11 2020 SEC.3. A SEAL ON THUSMS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TROSS COMPONENT DESIGN. THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS/PP11 SEC. 2



TC LL	20.0 PSF	REF	R8228-43501
TC DL	10.0 PSF	DATE	10/29/07
BC DL	10.0 PSF	DRW	HCUSR8228 07302064
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEQN-	23947
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC08228Z06

CLB WEB BRACE SUBSTITUTION

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

NOTES:

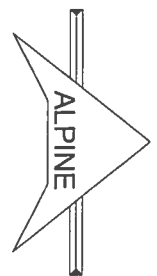
THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

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

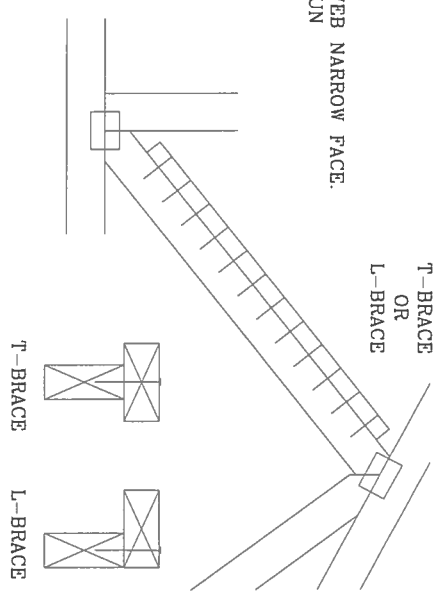
(\*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.



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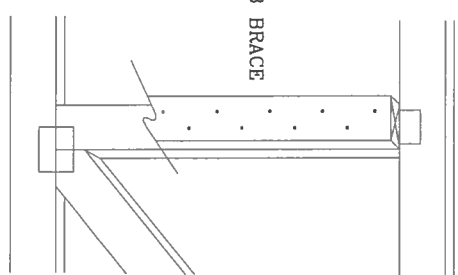
T-BRACING  
OR  
L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.  
ATTACH WITH 10d BOX OR GUN  
(0.128" x 3" MIN) NAILS.  
AT 6" O.C. BRACE IS A  
MINIMUM 80% OF WEB  
MEMBER LENGTH



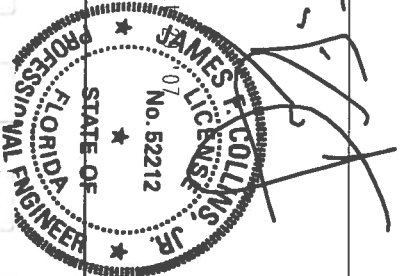
SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.  
NO MORE THAN (1) SCAB PER FACE.  
ATTACH WITH 10d BOX OR GUN  
(0.128" x 3" MIN) NAILS.  
AT 6" O.C. BRACE IS A MINIMUM  
80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640

TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	2/23/07
BC DL	PSF	DRWG	BRCIBSUB0207
BC LL	PSF	ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			



SPRUCE-PINE-FIR		HEM-FIR	
#1 / #2	STANDARD	#2	STUD
#3	STUD	#3	STANDARD

DOUGLAS FIR-LARCH		SOUTHERN PINE	
#3	STUD	#3	STUD
STANDARD		STANDARD	

GROUP B:

HEM-FIR

#1 & BTR

#1

SOUTHERN PINE

#1

#2

DOUGLAS FIR-LARCH

#1

#2

LIVE LOAD DEFLECTION CRITERIA IS  $L/240$ .

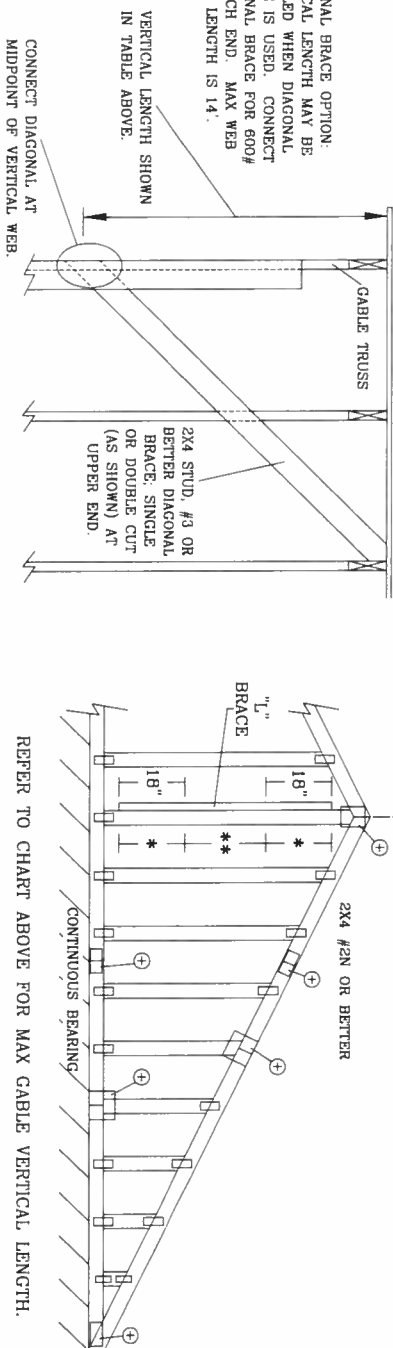
PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER  
CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.  
\* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C.  
IN 1<sup>st</sup> END ZONES AND 4" O.C. BETWEEN ZONES  
\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C.  
IN 1<sup>st</sup> END ZONES AND 6" O.C. BETWEEN ZONES  
BRACING MUST BE A MINIMUM OF 80% OF WEB  
MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR  
PEAK, SPLICE, AND HEEL PLATES.



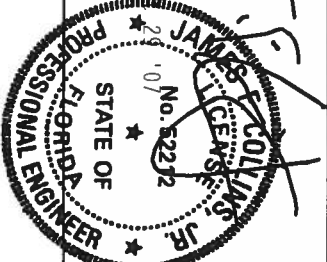
REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

ALPINE

**ITW BUILDING COMPONENTS GROUP, INC.**  
**POMPANO BEACH, FLORIDA**

**\*\*WARNING\*\*** THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATING INSTITUTE, 218 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22304 AND WEA GOOD ROSS CONNECTOR SYSTEMS, INC., 6700 WEST 9TH AVENUE, DENVER CO 80202 FOR FURTHER INFORMATION REGARDING THE FUNCTIONS, LIMITS AND OVERSTRESS INDICATED ON THIS CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR, ITU BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE OR BUILT THE TRUSS. IN CONFORMANCE WITH THE FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY AREA AND PER LOCAL BUILDING CODES. THE EDGE OF EACH PLATE SHALL BE AT LEAST 6" FROM THE END OF THE CHORD. POSITION PER DRAWINGS 160A-2, 4 AND INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEK #3 OF TPI-1-2002 SEC. 3, A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN APPROVE. THE SUITABILITY AND USE OF THIS CONNECTION FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI-1 SEC. 2

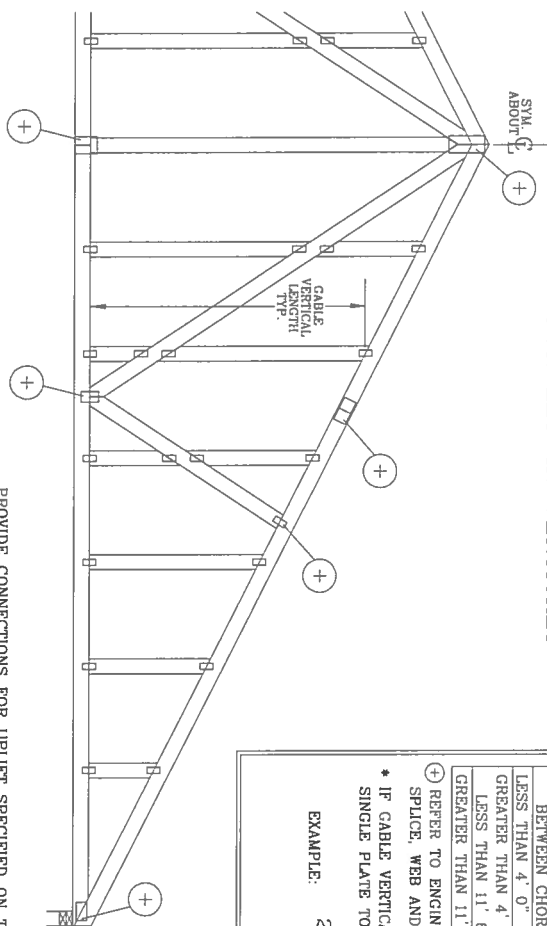


MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

REF	ASCE7-02-CAB11015
DATE	2/23/07
DRWG	A11015EEO207
-ENG	



# GABLE DETAIL FOR LET-IN VERTICALS



GABLE VERTICAL PLATE SIZES			
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*	
LESS THAN 4' 0"	1X4 OR 2X3	2X6	
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X6	
GREATER THAN 11' 6"	2.5X4	2.5X6	

\* REFER TO ENGINEERED TRUSS DESIGN FOR PEAK SPLICE, WEB AND HEEL PLATES.  
 \* IF CABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.  
 EXAMPLE: 2X4, 2X4, 2X6

PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.  
 ATTACH EACH "T" REINFORCING MEMBER WITH

10d COMMON (0.148" X 3.3" MIN) TOENAILS AT 4" O.C. PLUS  
 (4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

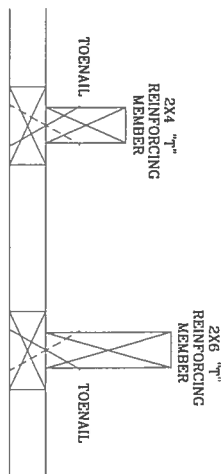
CUN DRIVEN NAILS:  
 8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS  
 (4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE CABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS  
 A11015END0207, A10015END0207, A09015END0207, A08015END0207, A07015END0207,  
 A11030END0207, A10030END0207, A09030END0207, A08030END0207, A07030END0207  
 ASCE 7-98 GABLE DETAIL DRAWINGS  
 A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A08015EC0207,  
 A13030EC0207, A12030EC0207, A11030EC0207, A10030EC0207, A08030EC0207  
 ASCE 7-02 GABLE DETAIL DRAWINGS  
 A13015EB0207, A12015EB0207, A11015EB0207, A10015EB0207, A08015EB0207,  
 A13030EB0207, A12030EB0207, A11030EB0207, A10030EB0207, A08030EB0207  
 ASCE 7-05 GABLE DETAIL DRAWINGS  
 A13015ES0207, A12015ES0207, A11015ES0207, A10015ES0207, A08015ES0207,  
 A13030ES0207, A12030ES0207, A11030ES0207, A10030ES0207, A08030ES0207

SEE APPROPRIATE ALPINE CABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED CABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS CAB98117 876,719 & HC26294035



TO CONVERT FROM "T" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON CABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "T" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE CABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED CABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

## WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED "T" REINF. AND MRH	MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
110 MPH	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
110 MPH	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
100 MPH	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
100 MPH	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
90 MPH	2x6	20 %	40 %
80 MPH	2x4	10 %	10 %
80 MPH	2x6	30 %	50 %
80 MPH	2x4	10 %	10 %
80 MPH	2x6	20 %	30 %
70 MPH	2x4	0 %	20 %
70 MPH	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
70 MPH	2x6	10 %	30 %

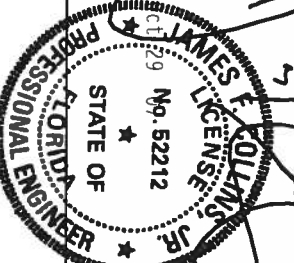
EXAMPLE:  
 ASCE WIND SPEED = 100 MPH  
 MEAN ROOF HEIGHT = 30 FT  
 CABLE VERTICAL = 24" O.C. SP #3  
 "T" REINFORCING MEMBER SIZE = 2X4  
 (1) 2X4 "T" BRACE LENGTH = 6' 7"  
 MAXIMUM "T" REINFORCED CABLE VERTICAL LENGTH  
 1.10 x 6' 7" = 7' 3"



ITW BUILDING COMPONENTS GROUP, INC.  
 POMPANO BEACH, FLORIDA

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 210 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314 AND WITA WOOD TRUSS COUNCIL, 6500 W. 63RD STREET, SUITE 100, HASTON, TX 75701 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. 6500 W. 63RD STREET, SUITE 100, HASTON, TX 75701. ALL TRUSSES MUST BE ATTACHED TO STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

\*\*\*IMPORTANT\*\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR, ITW BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES IN DESIGNED CONDITIONS. THE ALPINE CABLE PROVISIONS OF THIS SPEC. ARE APPROVED AND THE DESIGNER ASSUMES ALL LIABILITY FOR THE DESIGN AND THE USE OF THE TRUSSES. THE TRUSSES SHALL BE GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE INDICATED ON THIS SPEC. DESIGN, POSITION PER DRAWINGS 1609-2. ANY INSPECTION OF PLATES FOLLOWED BY CI SHALL BE PER AMEXX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER AMX/TP1 1 SEC. 2.



REF	LET-IN VERT
DATE	2/23/07
DRWG	GBLETTIN0207
-ENG	DLJ/KAR
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

(\*\*) 2X4 SO. PINE #3 GABLE STUDS. ATTACH TO TOP CHORD. DIAGONAL MEMBERS AND BOTTOM CHORD WITH 2X4 ALPINE PLATES. ALL (\*\*) GABLE STUDS REQUIRED REINFORCING MEMBER. REINFORCING MEMBER MUST BE TOENAILLED TO GABLE STUD WITH 0.131"x3" TOENAILS AT 4" O.C. PLUS A CLUSTER OF 0.131"x3" TOENAILS AT THE TOP AND BOTTOM CHORD SEE DETAIL FOR NAILING. SEE CHART FOR STUD BRACING AND SPACING OF VERTICALS.

NOTE: TRUSS ERECTOR IS RESPONSIBLE FOR PERMANENT WEB BRACING. WHEN BRACING IS REQUIRED, FURNISH A COPY OF THIS DRAWING TO TRUSS ERECTOR.

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140 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-98, PART. ENCLOSED BLDG. CAT II, EXP. C.

140 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-98, PART. ENCLOSED BLDG. CAT II, EXP. C.

SEE APPROPRIATE ALPINE DRAWING FOR LUMBER, PLATES AND OTHER DATA NOT SHOWN HERE.

\*\* STUD MUST BE ATTACHED TO CHORDS AND DIAGONAL REINFORCING MEMBER REQUIRED

2X4 SO. PINE #3 24" O.C. 2'-10"

2X4 SO. PINE #3 16" O.C. 3'-5"

2X4 SO. PINE #3 12" O.C. 5'-0"

2X6 SO. PINE #2 N 16" O.C. 6'-2"

2X6 SO. PINE #2 N 12" O.C. 7'-1"

2X8 SO. PINE #2 N 16" O.C. 9'-1"

2X8 SO. PINE #2 N 12" O.C. 10'-4"

2X8 SO. PINE #2 N 12" O.C. 10'-4"

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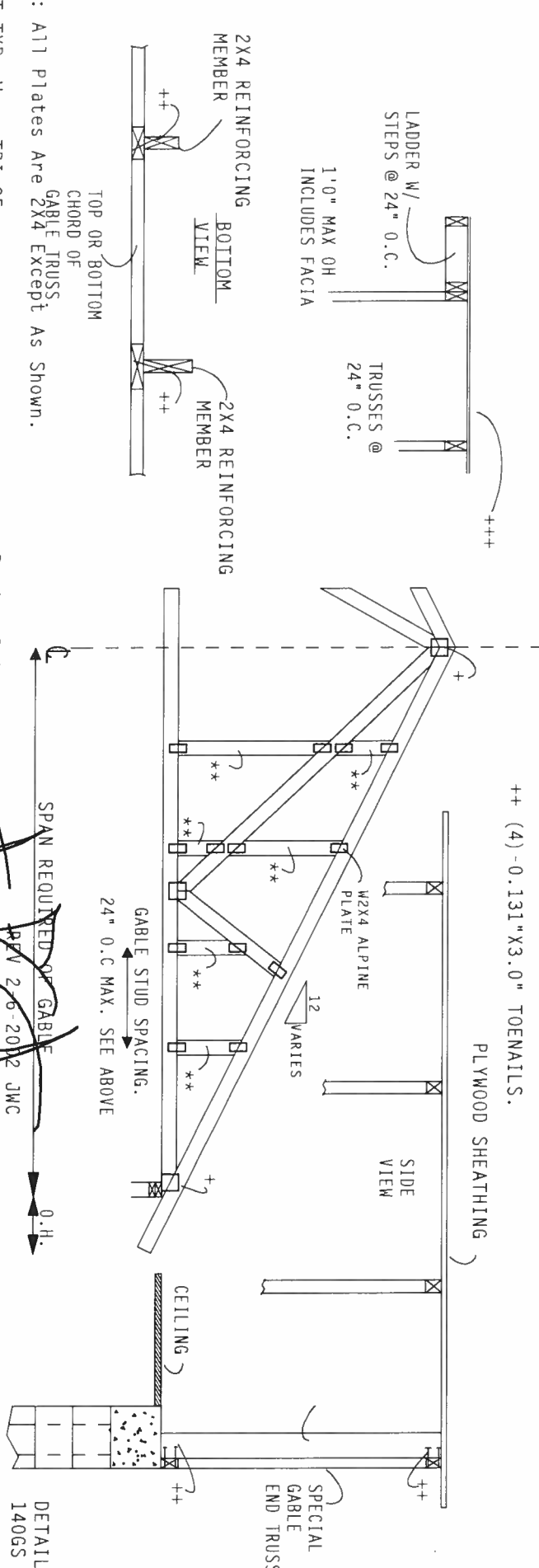
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2X8 SO. PINE #2 N 12" O.C. 10'-4"



Design Criteria: TP1(25)

REV 2-6-2012 JMC

HI/-/1/-/R/-

Scale = .3125"/ft.

DETAIL: 140GS

REF R001-- 0

DATE 03/27/02

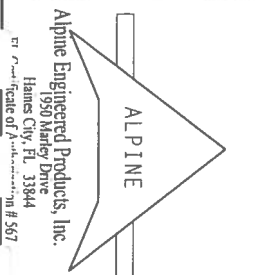
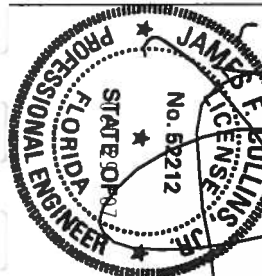
DRW HCURS001 02086012

HC-ENG DLJ/DLJ

SEQN - 24104

FROM HC

JREF- 1SV3001\_R03





This instrument was Prepared By:  
CASON CONSTRUCTION AND DEVELOPMENT, INC.  
2910 SW County Road 242,  
Lake City, Florida 32024

Inst: 200712027943 Date: 12/19/2007 Time: 3:25 PM  
DC, P. DeWitt Cason, Columbia County Page 1 of 1

PERMIT NO. \_\_\_\_\_

TAX FOLIO NO.: \_\_\_\_\_

## NOTICE OF COMMENCEMENT

STATE OF FLORIDA  
COUNTY OF COLUMBIA

The undersigned hereby gives notice that improvement will be made to certain real Property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of property:  
Green Acres Addition Subdivision. Lot 2
2. General description of improvement: Construction of Dwelling
3. Owner information:
  - a. Name and address:  
CASON CONSTRUCTION AND DEVELOPMENT, INC.  
2910 SW County Road 242.  
Lake City, Florida 32024
  - b. Interest in property: Fee Simple
  - c. Name and address of fee simple title holder (if other Than owner): NONE
4. Contractor:  
CASON CONSTRUCTION AND DEVELOPMENT, INC.
5. Surety N/A
  - a. Name and address:
  - b. Amount of bond:
6. Lender: none
7. Persons within the State of Florida designated by Owner upon whom notices Or other documents may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes : NONE
8. In addition to himself, Owner designates \_\_\_\_\_ to receive a copy of the Lienor's Notice as provided in section 713.13 (1) (b), Florida Statutes.
9. Expiration date of notice of commencement (the expiration date is 1 year from The date of recording unless a different date is specified).

Matthew D. Cason  
Matthew D. Cason

The foregoing instrument was acknowledged before me this 19<sup>th</sup> day of December, 2007, by Matthew D. Cason, who are personally known to me and who did not take an oath.

Janet L. Cheek  
Notary Public  
My Commission Expires: June 25, 2011



# COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING

## OCCUPANCY

### COLUMBIA COUNTY, FLORIDA

#### Department of Building and Zoning Inspection

*This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.*

Parcel Number 26-4S-16-03185-052

Building permit No. 000026502

Use Classification SFD, UTILITY

Fire: 32.10

Permit Holder MATT CASON

Waste: 83.75

Owner of Building CASON CONSTRUCTION & DEVELOPMENT total: 115.85

Location: 164 SW ZEBRA TERR., LAKE CITY, FL

Date: 05/01/2008

*Fanny Dieke*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)



*Did not  
26-4S-16-03185-052*



# Columbia County Building Department

## Culvert Waiver

**Culvert Waiver No.**  
**000001493**

DATE: 12/12/2007 BUILDING PERMIT NO. 26502

APPLICANT MATT CASON PHONE 752-8453

ADDRESS	2910 SW CR 242	LAKE CITY	FL	32024
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OWNER CASON CONSTRUCTION & DEVELOPMENT PHONE 752-8453

ADDRESS	164	SW ZEBRA TERRACE	LAKE CITY	FL	32024
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CONTRACTOR MATT CASON PHONE 752-8453

LOCATION OF PROPERTY 47 S. R 242. L ZEBRA TERR. 3RD LOT ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT GREEN ACRES ADDITION 2

PARCEL ID # 26-4S-16-03185-052

**I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.**

SIGNATURE: \_\_\_\_\_

**A SEPARATE CHECK IS REQUIRED  
MAKE CHECKS PAYABLE TO BCC**

**Amount Paid** 50.00

**PUBLIC WORKS DEPARTMENT USE ONLY**

**I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE CULVERT WAIVER IS:**

APPROVED \_\_\_\_\_ NOT APPROVED - NEEDS A CULVERT PERMIT \_\_\_\_\_

COMMENTS: \_\_\_\_\_

SIGNED: Euro Phleggi DATE: 12-18-07

**ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.**

135 NE Hernando Ave., Suite B-21  
Lake City, FL 32055  
Phone: 386-758-1008 Fax: 386-758-2160

