

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: ITBT215-Z0222154729

Truss Fabricator: W.B. Howland
Job Identification: 4920-/W. Columbia Vol. Fire Dep /J.L. DUPREE -- , FL
Truss Count: 2
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.38.
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: HCUSR215

Details: A11030EE-GBLLETIN-

#	Ref	Description	Drawing#	Date
1	10040--1		07295027	10/22/07
2	10041--A1		07295028	10/22/07

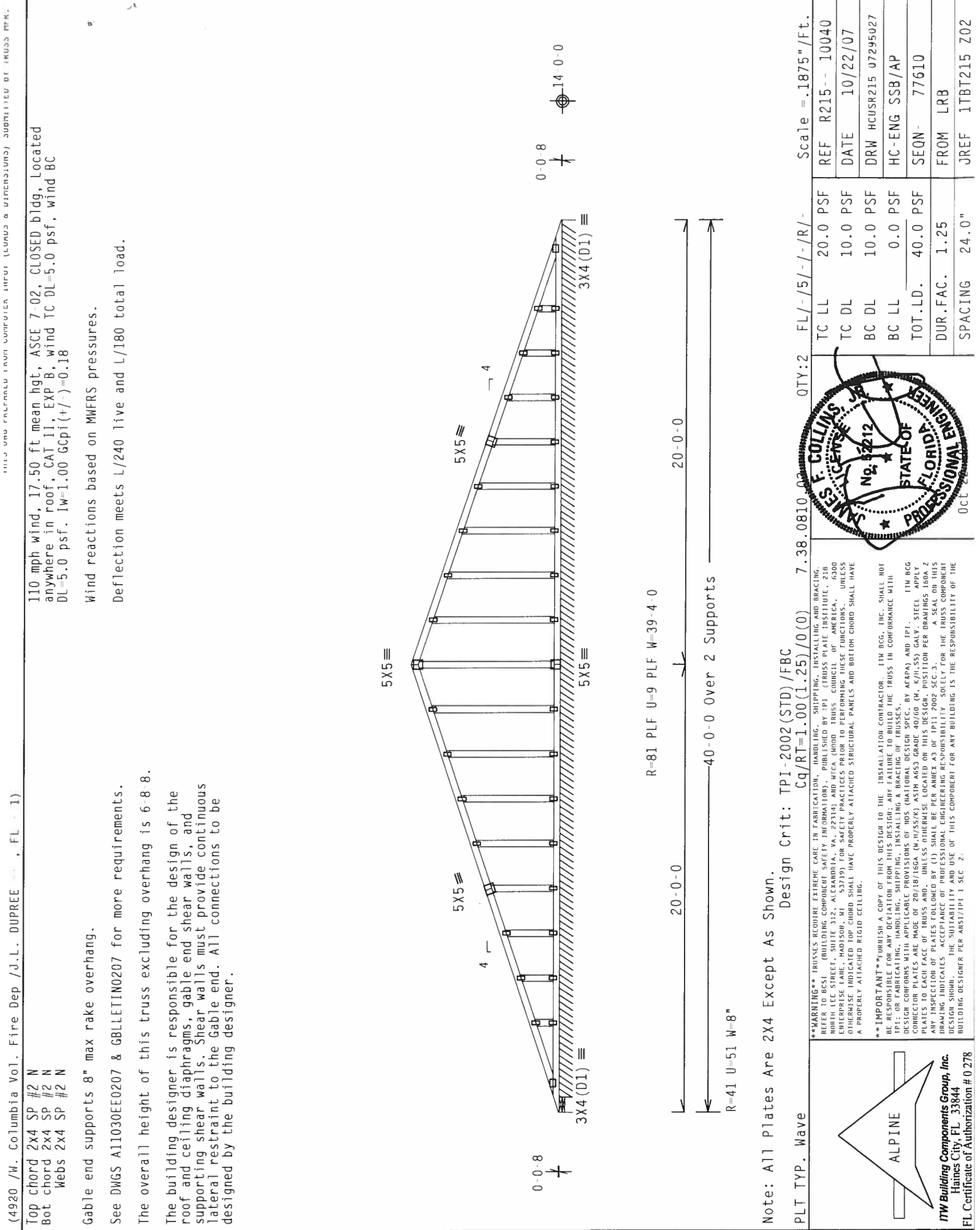


Seal Date: 10/22/2007

-Truss Design Engineer-
James F. Collins Jr.

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





(4920 /W. Columbia Vol. Fire Dep /J.L. DUPREE - FL - 1)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

Gable end supports 8" max rake overhang.

See DWGS A11030EE0207 & GBLLETIN0207 for more requirements.

The overall height of this truss excluding overhang is 6-8-8.

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.

110 mph wind, 17.50 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, lw=1.00 GCpf(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

Scale = .1875" / Ft.

QTY: 2

FL / - / 5 / - / 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 R215-- 10040

DATE 10/22/07

DRW HCUSR215 07295027

HC-ENG SSB/AP

SEQN- 77610

FROM LRB

JREF 1TBT215 Z02

James F. Collins, Jr.

Professional Engineer

State of Florida

License No. 32212

Oct 22, 2007

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844

FL Certificate of Authorization # 0 278

Note: All Plates Are 2x4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

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

7.38.0810.02

SHIPPING, INSTALLING AND BRACING

CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS IN CONFORMANCE WITH

TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 1005 (NATIONAL DESIGN SPEC, BY ACPA) AND TPI.

CONNECTION PLATES ARE MADE OF 2018/16GA (N-11/55/K) ASTM A653 GRADE 40/60 (N, K/H, 55) GALV. STEEL APPLY

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3.

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

DESIGNER'S SIGNATURE AND SEAL ARE REQUIRED FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

SHIPPING, INSTALLING AND BRACING

CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS IN CONFORMANCE WITH

TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 1005 (NATIONAL DESIGN SPEC, BY ACPA) AND TPI.

CONNECTION PLATES ARE MADE OF 2018/16GA (N-11/55/K) ASTM A653 GRADE 40/60 (N, K/H, 55) GALV. STEEL APPLY

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3.

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

DESIGNER'S SIGNATURE AND SEAL ARE REQUIRED FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

SHIPPING, INSTALLING AND BRACING

CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS IN CONFORMANCE WITH

TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 1005 (NATIONAL DESIGN SPEC, BY ACPA) AND TPI.

CONNECTION PLATES ARE MADE OF 2018/16GA (N-11/55/K) ASTM A653 GRADE 40/60 (N, K/H, 55) GALV. STEEL APPLY

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3.

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

DESIGNER'S SIGNATURE AND SEAL ARE REQUIRED FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

SHIPPING, INSTALLING AND BRACING

CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS IN CONFORMANCE WITH

TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 1005 (NATIONAL DESIGN SPEC, BY ACPA) AND TPI.

CONNECTION PLATES ARE MADE OF 2018/16GA (N-11/55/K) ASTM A653 GRADE 40/60 (N, K/H, 55) GALV. STEEL APPLY

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3.

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

DESIGNER'S SIGNATURE AND SEAL ARE REQUIRED FOR THE TRUSS COMPONENT

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

SHIPPING, INSTALLING AND BRACING

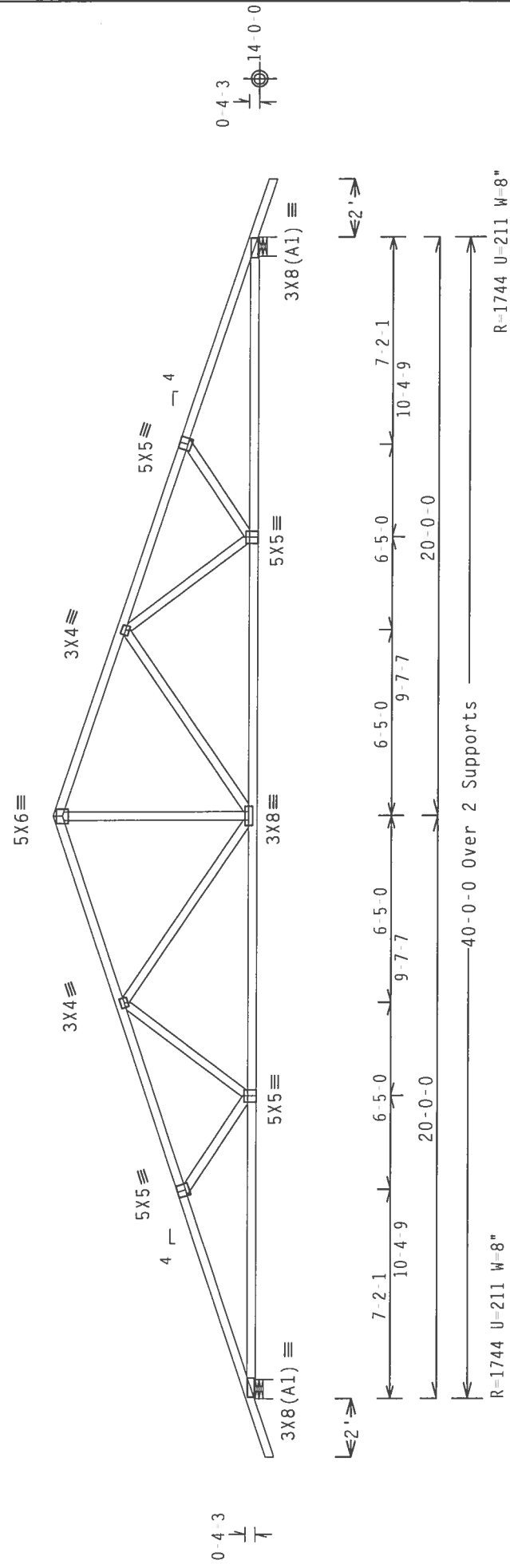
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

110 mph wind, 17.35 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. lw=1.00 GCpi(+/-)0.18

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

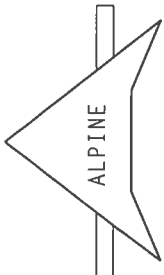
Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 7'-0.3".



Design Crit: TPI-2002(STD)/FBC

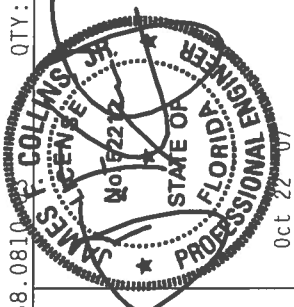
PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.38.0810 QTY:19 FL/-/5/-/ - /R/- Scale = .1875"/Ft.



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. THE TRUSS CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS IN CONFORMANCE WITH THE FOLLOWING SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 102, ALFRED, LA 70509, 504-833-1111, WWW.TPI-TRUSS.COM). 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 TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI. 1TH BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (M-H/SS/K) ASTM A653 GRADE 40/60 (M. K/M-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 PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN AND NOT FOR THE STRUCTURE AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Oct 22 '07

ASCE 7-02: 110 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

2X4 CABLE VERTICAL SPACING		BRACE		(1) 1X4 "L" BRACE *		(2) 2X4 "L" BRACE *		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE *	
		SPECIES	GRADE	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
MAX CABLE VERTICAL LENGTH	12" O.C.	SPF	#1 / #2	6' 4"	6' 6"	7' 6"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"
		HF	#3	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"
		SP	STANDARD	3' 7"	5' 5"	7' 1"	7' 1"	8' 11"	8' 11"	11' 1"	11' 1"
		DFL	STANDARD	3' 7"	4' 8"	6' 1"	6' 1"	8' 3"	8' 3"	9' 6"	9' 6"
	16" O.C.	SP	#1	4' 0"	6' 4"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"
		HF	#2	3' 11"	6' 4"	7' 6"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"
		SP	#3	3' 9"	5' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"
		DFL	STANDARD	3' 9"	5' 6"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"
	24" O.C.	SP	#1 / #2	4' 2"	7' 3"	8' 7"	8' 10"	10' 3"	10' 6"	13' 5"	13' 10"
		HF	#3	4' 1"	6' 8"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"
		SP	STANDARD	4' 1"	6' 8"	8' 7"	8' 7"	10' 3"	10' 3"	13' 5"	13' 5"
		DFL	STANDARD	4' 1"	5' 8"	7' 6"	7' 6"	10' 1"	10' 1"	11' 8"	11' 8"
	12" O.C.	SP	#1	4' 7"	7' 3"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"
		HF	#2	4' 6"	7' 3"	8' 7"	9' 3"	10' 3"	11' 0"	13' 5"	14' 0"
		SP	#3	4' 4"	6' 10"	8' 7"	9' 0"	10' 3"	10' 9"	13' 5"	14' 0"
		DFL	STANDARD	4' 4"	6' 9"	8' 7"	8' 11"	10' 3"	10' 9"	13' 5"	14' 0"
	16" O.C.	SP	#1 / #2	4' 2"	5' 10"	7' 8"	7' 8"	10' 3"	10' 4"	11' 11"	11' 11"
		HF	#3	4' 2"	5' 10"	7' 8"	7' 8"	10' 3"	10' 4"	11' 11"	11' 11"
		SP	STANDARD	4' 2"	5' 10"	7' 8"	7' 8"	10' 3"	10' 4"	11' 11"	11' 11"
		DFL	STANDARD	4' 2"	5' 10"	7' 8"	7' 8"	10' 3"	10' 4"	11' 11"	11' 11"
	24" O.C.	SP	#1	4' 9"	7' 9"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"
		HF	#2	4' 9"	7' 9"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"
		SP	#3	4' 9"	7' 9"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"
		DFL	STANDARD	4' 9"	7' 9"	9' 5"	9' 5"	11' 3"	11' 3"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH

#3	STANDARD
STUD	STANDARD

SOUTHERN PINE

#3	STANDARD
STUD	STANDARD

GROUP B:

HEM-FIR		DOUGLAS FIR-LARCH	
#1 & BTR	#1	#1	#2

SOUTHERN PINE

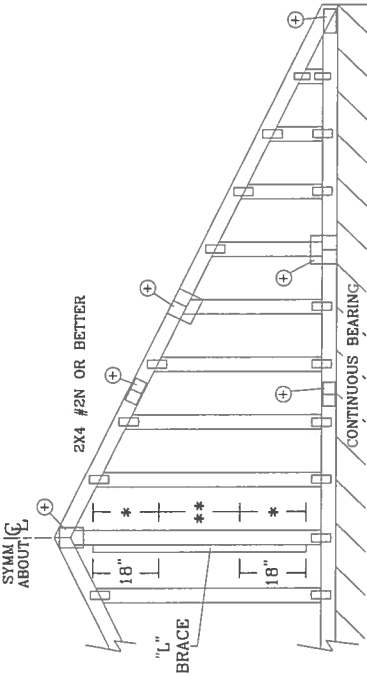
#1	STANDARD
#2	STANDARD

CABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UPLIFT CONNECTIONS FOR 100 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).
- CABLE END SUPPORTS LOAD FROM 4' 0" 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 16" END ZONES AND 4' O.C. BETWEEN ZONES.
- ** FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C. IN 16" END ZONES AND 6' O.C. BETWEEN ZONES.
- "L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

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

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



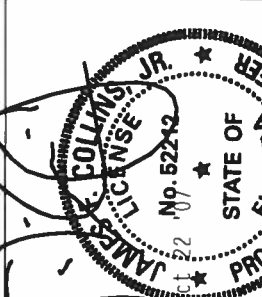
REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATFORM INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314) AND WCA (WOOD TRUSS COUNCIL AMERICA, 6300 ENTERPRISE LN, 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 COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCS INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BRACING OF TRUSSES IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BUILDING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. FOR WOOD) AND TPI. ITV, BCS CONNECTOR PLATES ARE MADE OF 20/18/16GA C/W/H/SS/KO ASTM A653 GRADE 40/60 (K/AL/SS) STEEL. APPLICABLE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DRAWING, ALL TRUSS MEMBERS SHALL BE FULLY SEaled 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 ANSI/TPI 1 SEC. 2.

REF	ASCE7-02-CAB11030
DATE	2/23/07
DRWG	A11030EE0207
ENG	

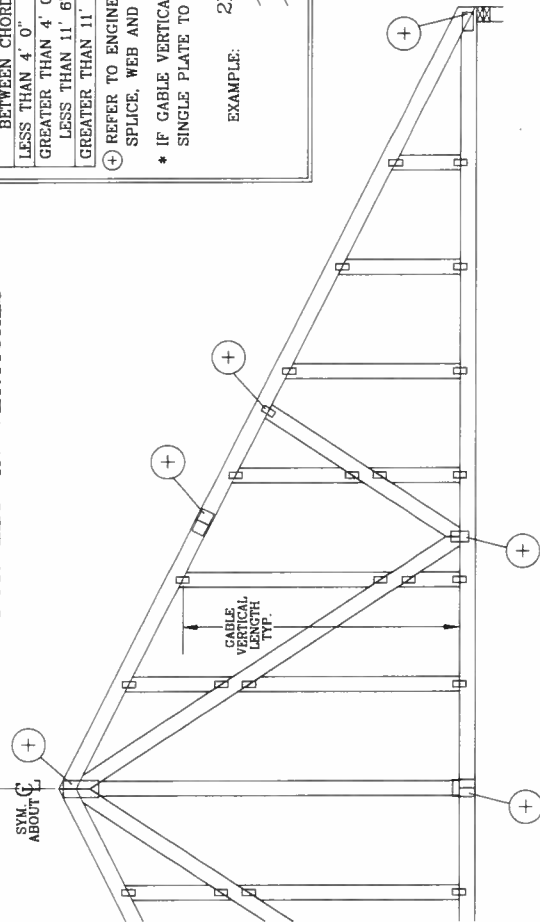
MAX. TOT. LD.	60 PSF
MAX. SPACING	24.0"



ALPINE

ITV BUILDING COMPONENTS GROUP, INC.
POMPAHO BEACH, FLORIDA

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	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:



WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REIN- FORCING	SBCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

GABLE VERTICAL = 24" O.C. SP #3

"T" REINFORCING MEMBER SIZE = 2X4

$$10\% \text{ BRACE INCREASE (FROM ABOVE)} = 10\% = 1.10$$

(1) 2X4 "I." BRACE LENGTH = 6' 7"

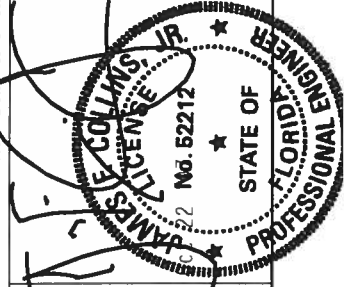
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH

110 x 6' 2" = 7' 3"

~~THIS DRAWING~~ REPLACES DRAWINGS GAB98117 876.719 & HC26294035

REF	LET-IN VERT
DATE	2/23/07
DRWG	GBLLETINO207
-ENG	DLJ/KAR
MAX TOT. LD. 60 PSF	
DUR. FAC.	ANY
MAX SPACING 24.0"	

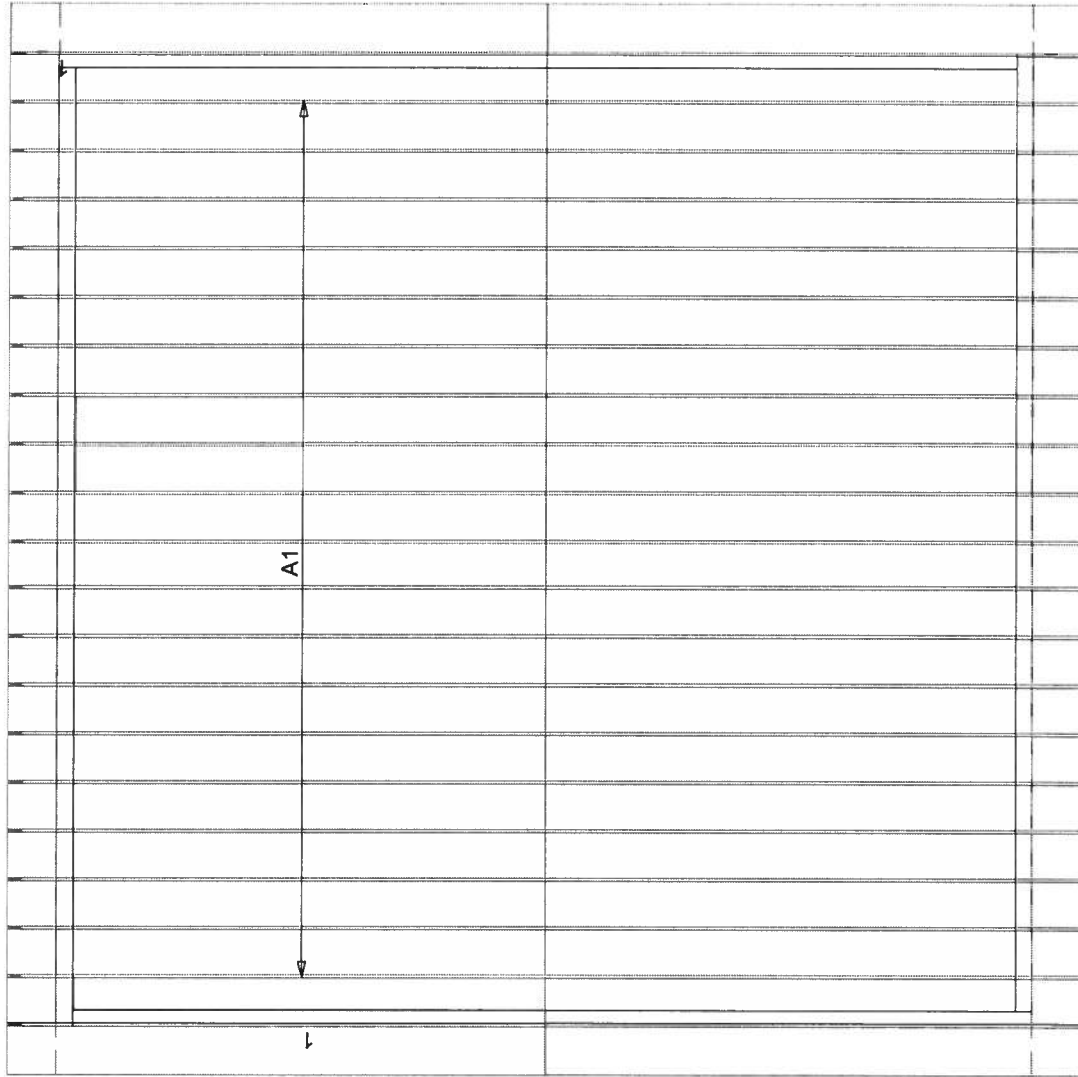
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI CROSS PLUS, 6500 ENTERPRISE AVE. IN MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

[illegible]

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

ALPINE

40'



40'

40'

W.B. HOWLAND
Office: (386)362-1235
Fax: (386)362-7124

DATE: 9/21/07
ROOF PITCH: 6/12
CLG. PITCH: FLAT
OVERHANG: 2'
LOADING: 40#s PSF
WIND LOAD: 110
EXT. WALLS: 8" CMU

10/8/07
REVISED PITCH FROM
6/12 TO 4/12 PER
DUPREE CONST.

Job Name: W. Columbia Vol. Fire Dep
Customer: J.L. DUPREE
Designer: Lynn Bell

JOB NO:
4920

PAGE NO:
1 OF 1