

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

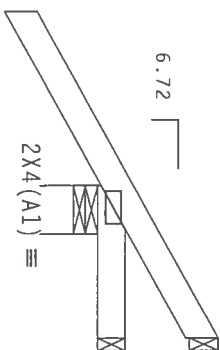
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located  
anywhere in roof, CAT 1, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0  
psf. 1w=1.00 GCpl (+/-)=0.18

Bearing reactions of 8# at (1-6-13, 8-0-0), 20# at (1-6-13,  
8-11-7), require special connection to resist uplift from loads  
other than wind.

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.

0.47  
1



R=21 U=27  
1-2-15  
8-11-7  
8-0-0

1-9-6  
1-6-13 Over 3 Supports  
R=280 U=41 W=6"

PLT TYP. Wave

Design Crtt: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0.00

7.36.042

QTY: 1

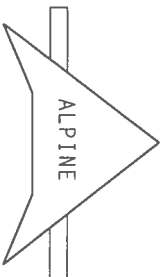
FL/-/4/-/E/-/-

Scale = .5"/ft.

\*\*WARNING\*\* TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218  
HORTH 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. ITW 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 A BRACING OF TRUSSES.

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ITW BCG  
CONNECTION PLATES ARE MADE OF 2010/1000 (A1/S1/S2) ASHT 4653 GRADE 40/60 (A1/S1) GALV. STEEL. APPLY  
TENSION PLATES TO ALL TOP CHORDS AND BOTTOM CHORDS. TENSION PLATES PER DRAWINGS. TENSION  
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY A QUALIFIED ENGINEER. SEE TPI-2002(STD)  
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 AMS/TP1 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 00000000



16 '07

TC LL	20.0 PSF	REF	R8228- 58659
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320061
BC LL	0.0 PSF	HC-ENG DF/DF	
TOT.LD.	40.0 PSF	SEQN-	60839
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC18228204

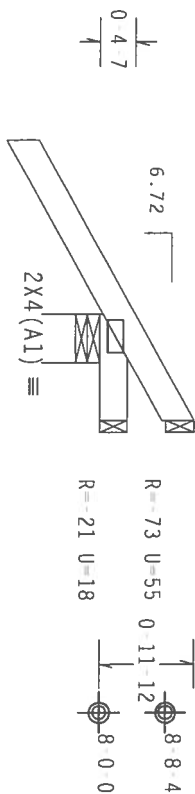
Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

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

Bearing reactions of 21# at (1-1-1, 8-0-0), 73# at (1-1-1, 8-8-4), require special connection to resist uplift from loads other than wind.

Wind reactions based on MWFRS pressures.

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



$\overbrace{1 \ 9 \ 6}^{\text{Over 3 Supports}}$   
 $\overbrace{1 \ 1 \ 1}^{\text{Over 3 Supports}}$   
 $R=305 \ U=57 \ W=6''$

PLT TYP. Wave

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

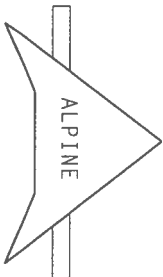
$$Cq/RT=1.00(1.25)/0(0)$$

7.36.047

QTY:1

FL/14/E/

Scale = .5"/Ft.



**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Registration # 00760

**No. 66648**



QTY:1

FL/14/E/

Scale = .5"/Ft.

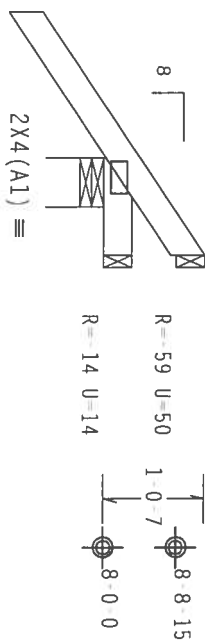
TC LL	20.0 PSF	REF	R8228- 58660
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCSUR8228 07320050
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	60843
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	1TC18728204

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

Bearing reactions of 14# at (1-0-0, 8-0-0), 59# at (1-0-0, 8-8-15), require special connection to resist uplift from loads other than wind.

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.



$\overbrace{1-6-0}^{\text{1-0-0 Over 3 Supports}}$   
 $R=261 \quad U=45 \quad W=6^*$

PLT TYP. Wave

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

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

7.36.042

QTY:1

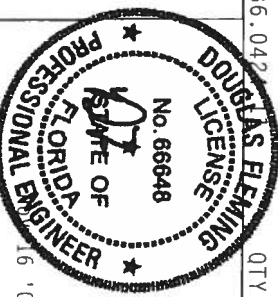
FL/-/4/-/E/-/-

Scale = .5"/Ft.

**\*WARNING\*** THESE BUILDING EXISTENCE CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PRACTICE REFLECTS TO RCSP (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IP1 (FROSS PASTE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD WORKING INSTITUTE OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO REFRIGERATING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED GRID CEILING.

ALPINE

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # A-076

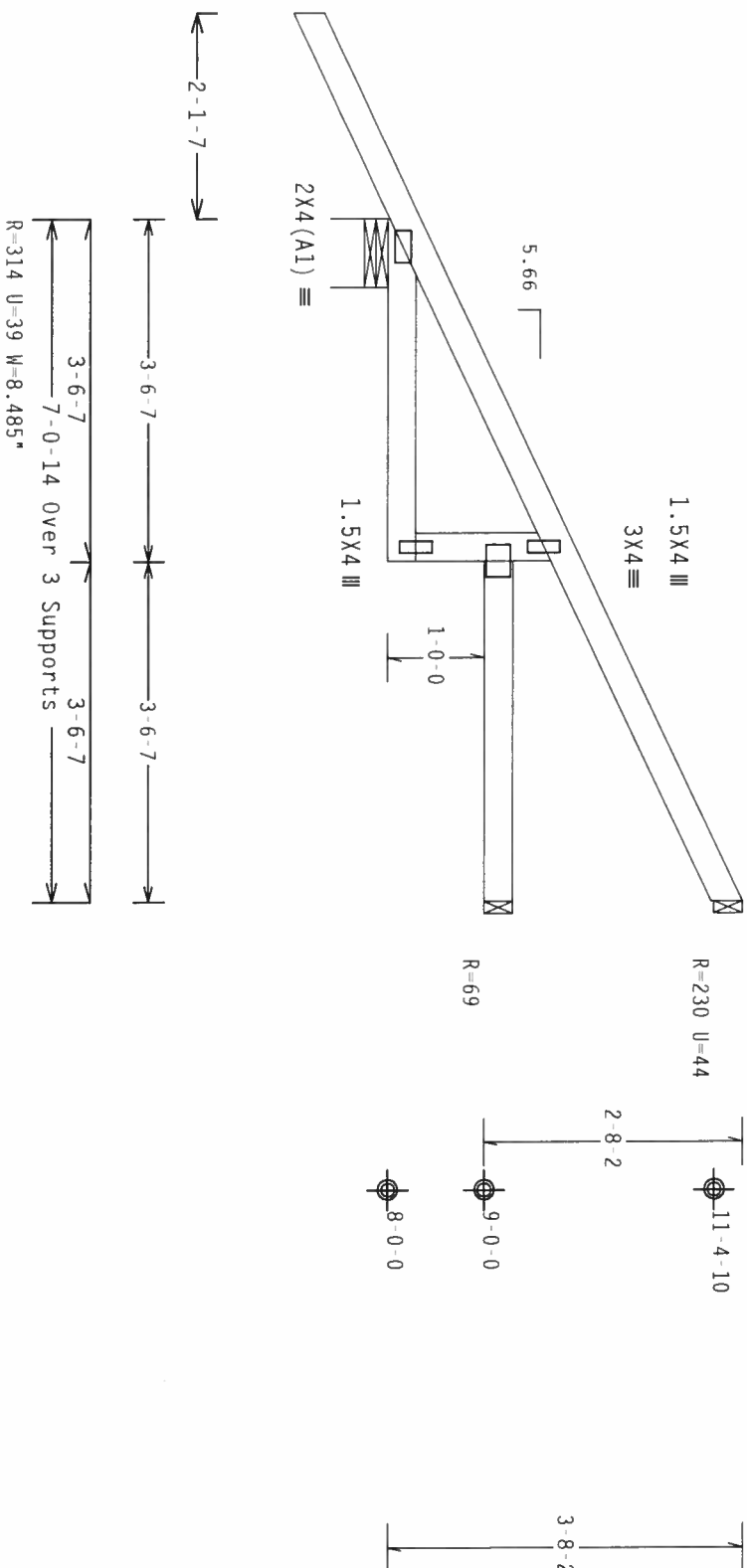


TC LL	20.0 PSF	REF	R8228- 58661
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07320010
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	60851
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	1TC18228204

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

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.



PLT TYP. Wave

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

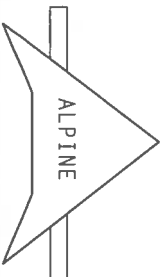
$$Cq/RT=1.00(1.25)/0(0)$$

7.36.04 GLASS FLEM. QTY:1

QTY:1

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

Scale = .5" / Ft.



**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 000796

\*"WARNING" - FIRE'S RESULTING EXTENSIVE DAMAGE TO INFORMATION, HANDLING, SHIPPING, INSTALLING AND PACKING  
 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY FBI (FIRE SAFETY INSTITUTE), 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS CONSULTING), 63000  
 ENTERPRISE LANE, MIDDLETOWN, NJ 07047 FOR SAFETY PRACTICES PERTAIN TO PERFORMING THESE FUNCTIONS.  
 UNLESS OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL BE  
 PROPERLY ATTACHED TO CHORD CELLING.

**\*\*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 TO BUILD THE TRUSS IN CONFORMANCE WITH THE SPECIFICATIONS, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

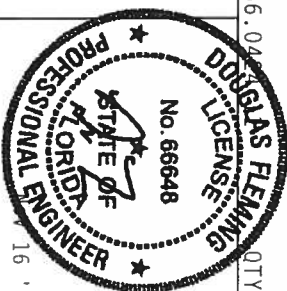
DISIGN CONDITIONS ARE APPLICABLE PROVISIONS OF MOS (NATIONAL GRADE SPEC. BY AIA/A) AND TYP. 11M BEG

CONNECTOR PLATES ARE MADE OF 20/18/16GA (N.M.S.S/K) ASTM A653 GRADE 40/60 (N. K/H. S5) GALV. STEEL. APPLY

PLATES TO EACH FACE OF THOUS AND THREE DIFFERENCES OF 10% ON THIS DESIGN POSITION PER DRAWINGS 16GA 2

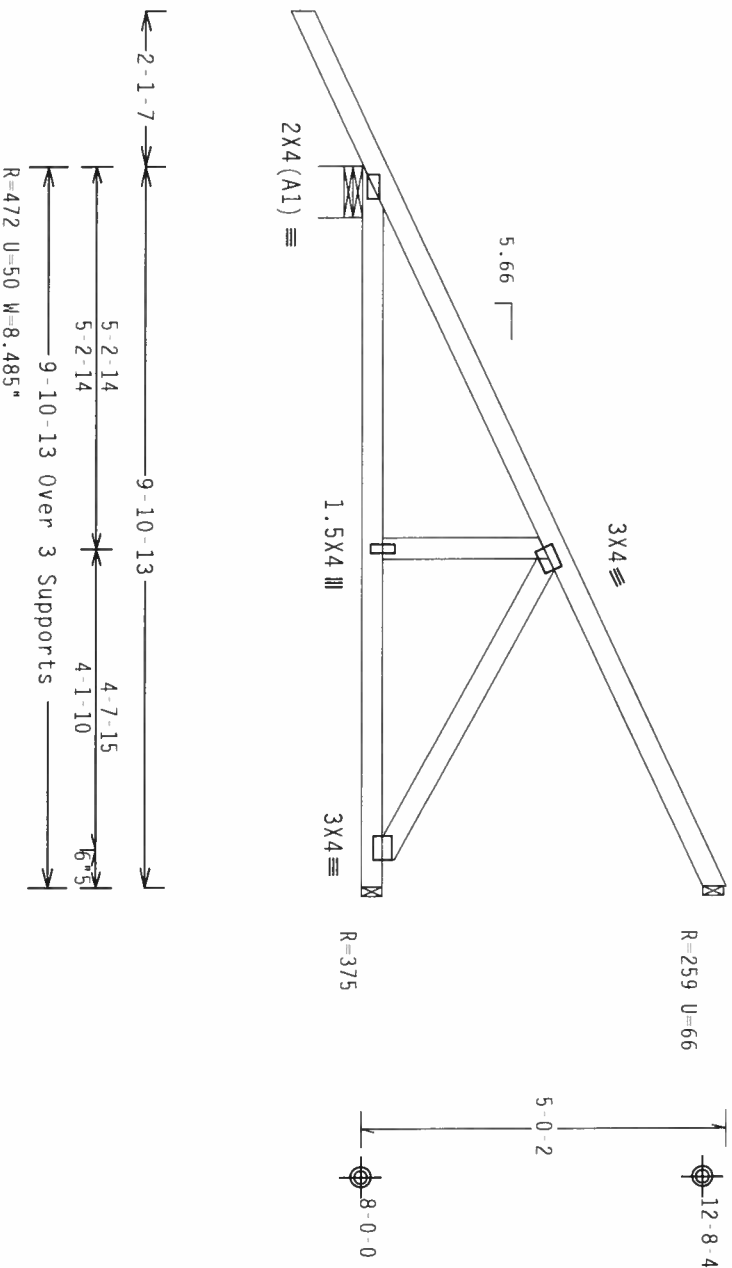
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AM3 AS OF TP11 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS. I CERTIFY TO EACH OF THESE AND UNDERSTAND THAT VIOLATION OF THIS DOCUMENTATION FOR DRAWING THIS

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



TC LL	20.0 PSF	REF	R8228- 58662
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320008
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61073
DUR.FAC.	1.25	FROM	AH
SPACING	SFF ABOVE	JRFF-	1TCIR8228Z04

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. Iw=1.00 Gcp1 (+)=-0.18



PLT TYP. Wave

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

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

7.36.0424 ~~INS E/C~~ QTY:1

QTY:1

FL/14/1E/1-

Scale = .375"/Ft.

**WARNING:** THESE BUILDING COMPONENTS EXIST ONLY IN THE FORMATION, HANDLING, SHIPPING, INSTALLING AND BRACING RIGID TO BCS1 (QUILTING) RIGID COMPONENT SAFETY (RIGID) INFORMATION, DEVELOPED BY THE STEEL DESIGN INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND AISC, 1801 L STREET, NORTHWEST, WASHINGTON, D.C. 20036. 6300 HERRINGTON LANE, MOULTON, WY 83139. FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS, INNESS ENGINEERS INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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

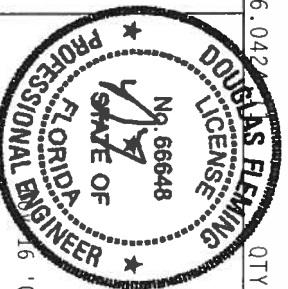
1P1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/10/16GA (W, H/SS/K) ASIM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT AND INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11 2002 SLC.3. A SEAL ON THIS

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 7

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 00000000



TC LL	20.0 PSF	REF	R8228- 58663
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320025
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	60884
DUR.FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JRFF-	1TC18228Z04

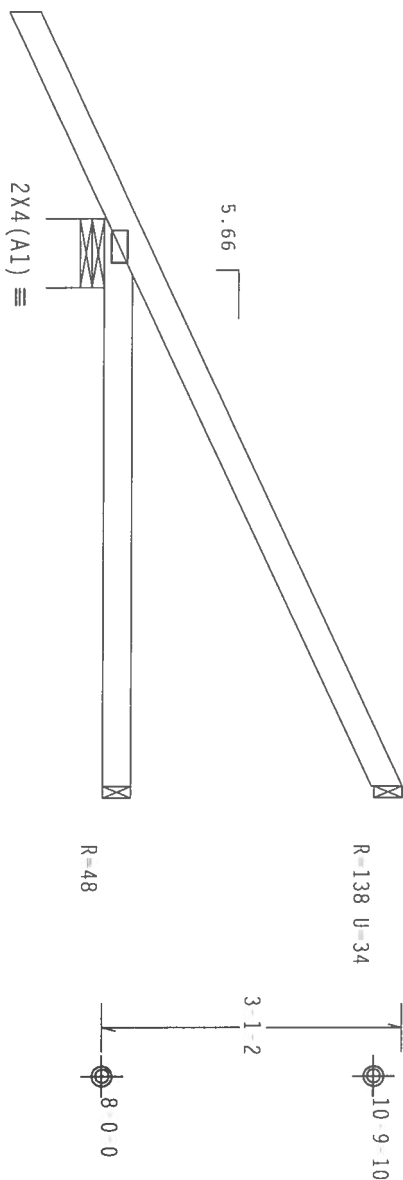
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense

Hipjack supports 4 - 1/8 setback jacks with no webs.

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, 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

Wind reactions based on MMFRS pressures.



PLT TYP. Wave

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

7.36.042

QTY:1

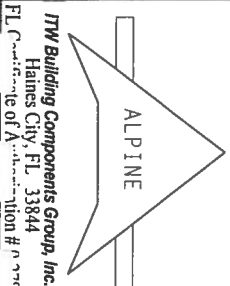
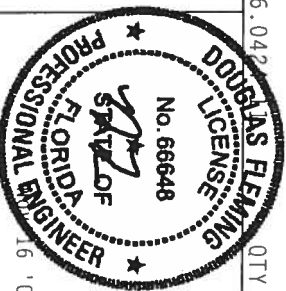
FL/-/4/-/E/-/-

Scale = .5"/ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 216 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK (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. ITW 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 905 (NATIONAL DESIGN SPEC. BY AIA/AIA AND TPI. CONNECTION PLATES ARE MADE OF 20/10/16GA (40/10/55/RS) ASH/60S GRADE 40/60 (4/ 4/11/55) GALV. STEEL. APPLY 1/2" MIN. GAPS BETWEEN PLATES. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ANY INSPECTION OF PLATES FOR ONE, BY A PROFESSIONAL ENGINEERING RESPONSIBILITY. DO NOT SEAL ON THIS DRAWING. INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. 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.

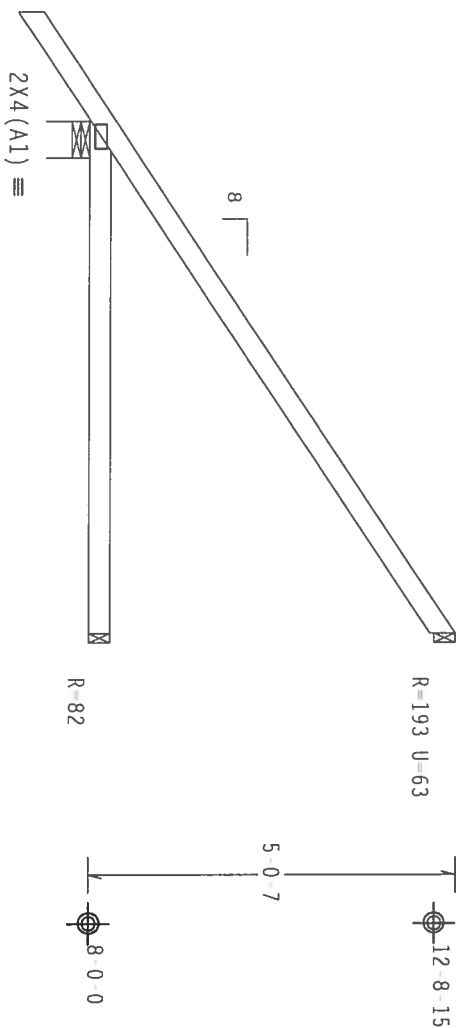


TC LL	20.0 PSF	REF	R8228 - 58664
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCU8R8228 07320044
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT. LD.	40.0 PSF	SEQN-	60888
DUR. FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JRFF-	1TC18228Z04

	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, 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



LE-6-07

$0.4$   $1.4$   $6-7-2$   
 $\rightarrow$   $7-0-0$  Over 3 Supports  $\rightarrow$   
 $R=417$   $U=5$   $W=6''$

PLT TYP. Wave

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

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

7.36.042

QTY:1

FL1-141-1E1-1-

Scale = .375"/Ft.

**\*WARNING\*** THESE PRODUCTS REQUIRE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING TO MEET BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY THE TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK MOON TRUSS COMPANY OF AMERICA, 63000 ILLINOIS LAKE, 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 PROPERLY ATTACHED RIGID CEILING.

ALPINE

**ITW Building Components Group, Inc.**

Haines City, FL 33844

FLC rate of  $\lambda$  million #

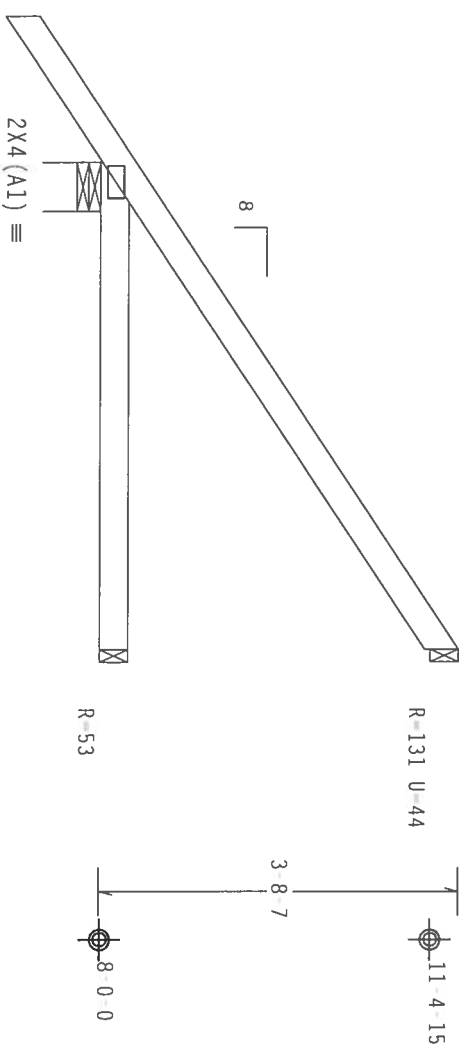


TC LL	20.0 PSF	REF	R8228- 58665
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320032
BC LL	0.0 PSF	HC-ENG DF/DF	*
TOT.LD.	40.0 PSF	SEQN-	60858
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	1TC18228Z04

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, 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.  $I_w=1.00$   $G_{cpl}(+/-)=0.18$   
Wind reactions based on MWFRS pressures.



← 1-6-0 →

0 4'-14" 4'-7-2  
5'-0-0 Over 3 Supports  
R-339 U=10 W=6"

PLT TYP. Wave

Design Crit: TPI-2002 (STD) / FBC

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

7.36.04

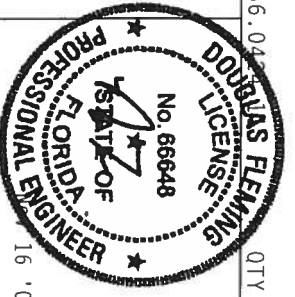
QTY: 1 FL / 4 / E / -

Scale = .5" / Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 610 NORTH LEE STREET, SUITE 317, ALEXANDRIA, VA, 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 1000 ENTERPRISE (AIRCRAFT) DRIVE, SUITE 100, WILSON, MI 49894, 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\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TITW 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.

CONNECTION PLATES ARE MADE OF 20/10/10GA (W/H/S/S) ASTM A653 GRADE 40/60 (W, K/H, S/S) GALV. STEEL. TITW BCG CONSTRUCTION, INC. SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844

FL 33844

Attention # 0000

TC LL	20.0 PSF	REF	R8228 - 58666
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320029
BC LL	0.0 PSF	HC-ENG DF/DF	*
TOT. LD.	40.0 PSF	SEQN-	60864
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TCI8228204



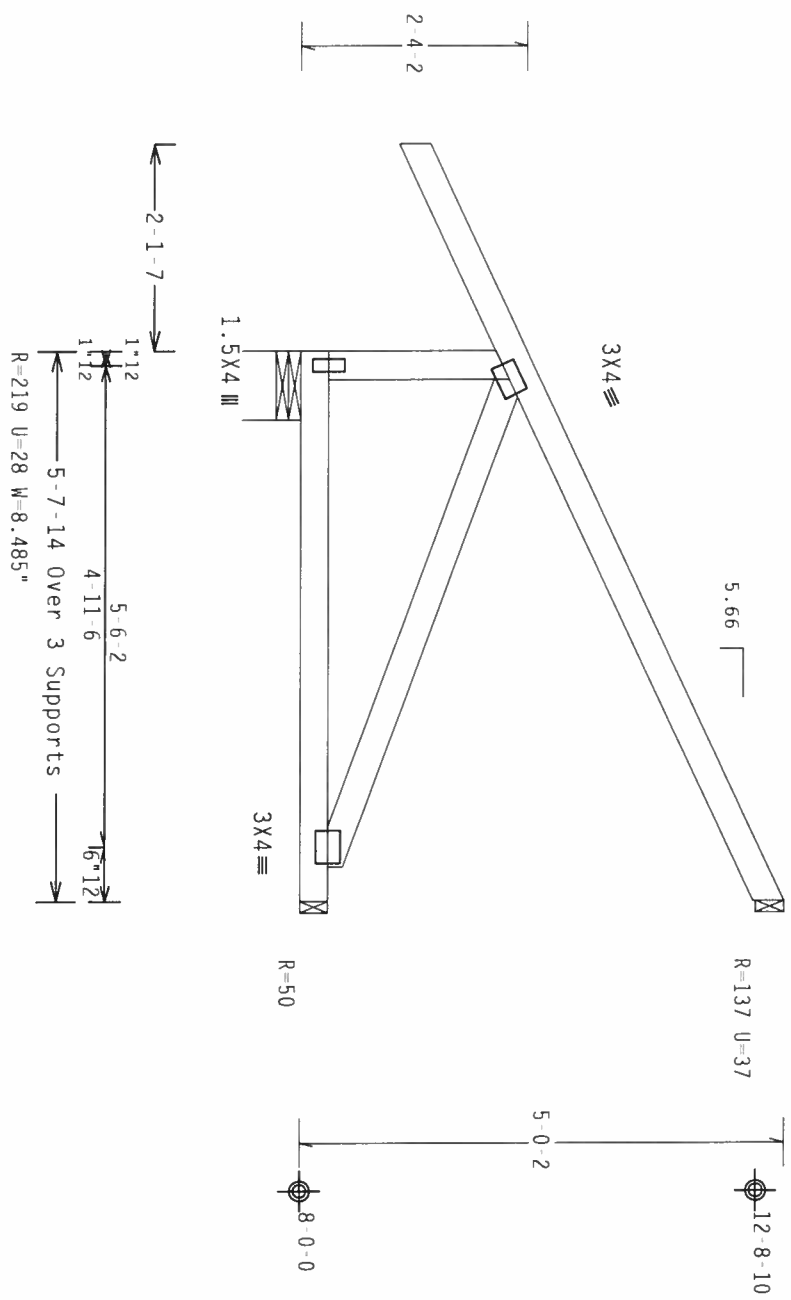
( 7 329 Sparks Construction Cochenour Lot 6 Pinemount Meadows Subdvn , \*\* HUSA )  
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

Left end vertical not exposed to wind pressure.

Hipjack supports 4'-0" setback jacks with no webs.

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.  $I_w=1.00$   $G_{CPI}(+/-)=0.18$

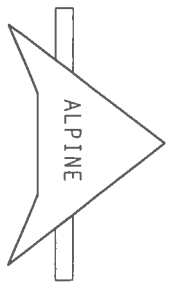
Wind reactions based on MMFRS pressures.  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



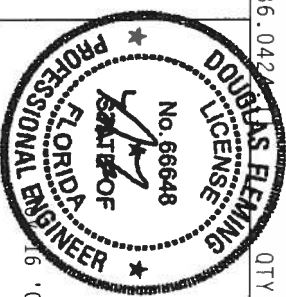
PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/0(0) 7.36.042 QTY:1 FL/-/4/-/E/-/- Scale =.5"/ft.

\*\*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, 22304 AND WICA (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. TITW 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/PA) AND TPI CONNECTION PLATES ARE MADE OF 2018/16/16GA (W/HS/2X) WITH 4053 GRADE 40/60 (W/ KRI-53) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOR DEFECTS. UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION PER DIMENSIONS FROM Z-DRAWING INDICATES ACCEPTANCE OF PROVISIONAL ENGINEERING RESPONSIBILITY AND DESIGN FOR THE TRUSS. THIS DESIGNING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



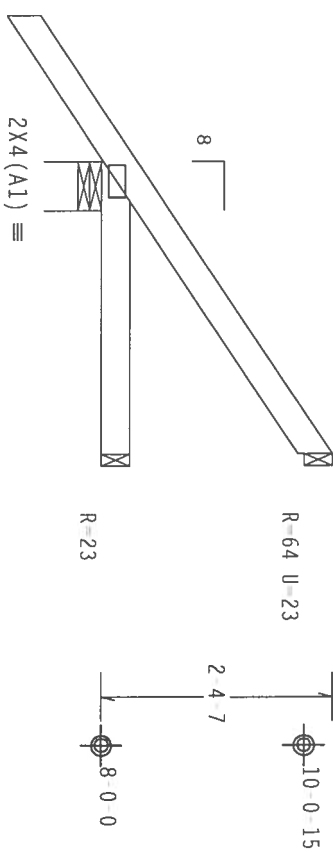
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TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320045
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	60901
DUR.FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JRFF-	1TCI8228Z04

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, 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 (1/1)=0.18

Wind reactions based on MMFRS pressures.



← 1-6-0 →

0 4 0 over 2 3 supports  
R-268 U=17 W=6"

PLT TYP. Wave

Design Crit: TP1-2002 (STD) /FBC  
Cq/RT=1.00(1.25)/0(0)

7.36.04

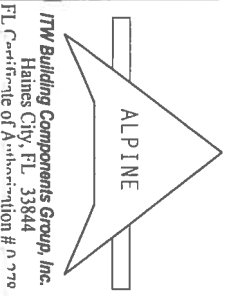
QTY:1

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

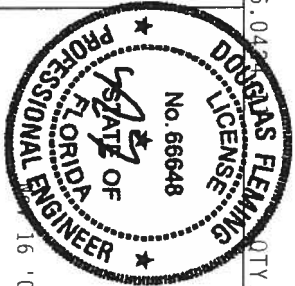
Scale = .5"/Ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 216 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND NCA (NATIONAL 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 DESIGN SHALL BE THE RESPONSIBILITY OF 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 INSTALLATION CONTRACTOR.



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Haines City, FL 33844  
FL Certificate of Authorization # 0770



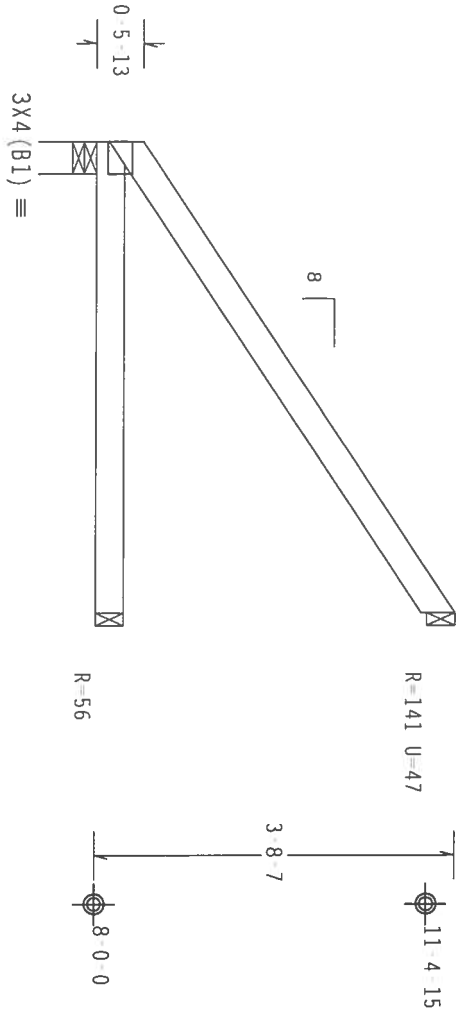
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TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07320030
BC LL	0.0 PSF	HC-ENG DF/DF	*
TOT. LD.	40.0 PSF	SEQN-	60869
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	1TCIR278Z04

( 7-329 Sparks Construction Cochenour Lot 6 Pinemount Meadows Subdvn , \*\* - J5A )

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, 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  
Wind reactions based on MMFRS pressures.



4-10-0  
4-10-0 Over 3 Supports  
R-208 W=4"

PLT TYP. Wave

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

7.36.042

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

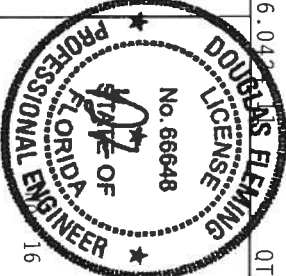
Scale = .5"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (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, 6200 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. TRUSSES 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 TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (ADDITIONAL DESIGN SPEC. BY AISC) AND TPI. ITW BCG PROVIDES TO CLIENTS THE MODE OF 2016/1604 (4-10/5/7/5) ASH 1005 GRADE 40/60 (4, 6/21/55) GALV. STEEL. APPLY PLATES TO PLATES MADE OF 2016/1604 (4-10/5/7/5) ASH 1005 GRADE 40/60 (4, 6/21/55) GALV. STEEL. ON THIS DRAWING, INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2.

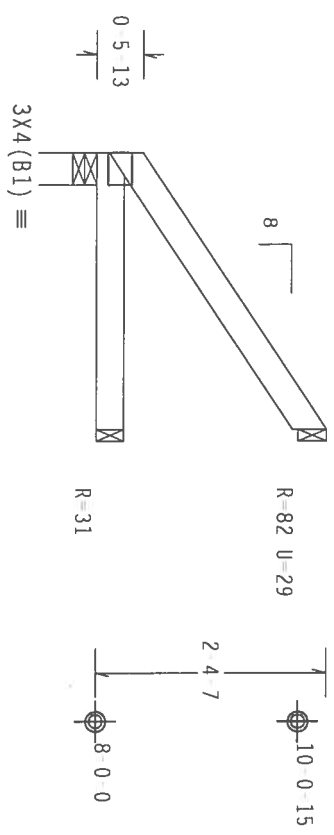


ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 0778



TC LL	20.0 PSF	REF	R8228- 58669
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCU8R8228 07320026
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT. LD.	40.0 PSF	SEQN-	60874
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF	1TC18228Z04

( 7-329 Sparks Construction Cochenour Lot 6 Pinemount Meadows Subdvn , \*\* - J3A )  
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, 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  
Wind reactions based on MMFRS pressures.



2-10 0 06-103-8 Supports  
R=124 W=4"

PLT TYP. Wave

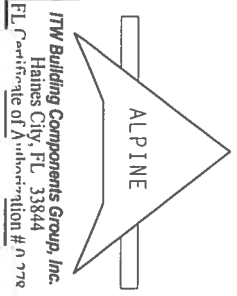
Design Crit: TPI-2002 (STD) / FBC  
Cq/RT=1.00(1.25)/0(0)

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

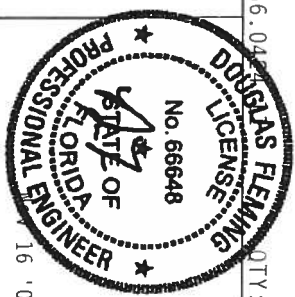
Scale = .5"/Ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE SOURCE FOR TRUSS INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) 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\*\*\* TURNISH 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 OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 2005 NATIONAL DESIGN SPEC. BY AIA/AIA AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 2010/1604 (W/115/5/5) ASH ALUMINUM GRADE 40/60 (W/ K/115/5) GALV. STEEL. APPLY THE FOLLOWING CONNECTIONS TO THE TRUSS. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2. ANY INSPECTION OF PLATES FOR ONE, TWO, OR THREE TIMES SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



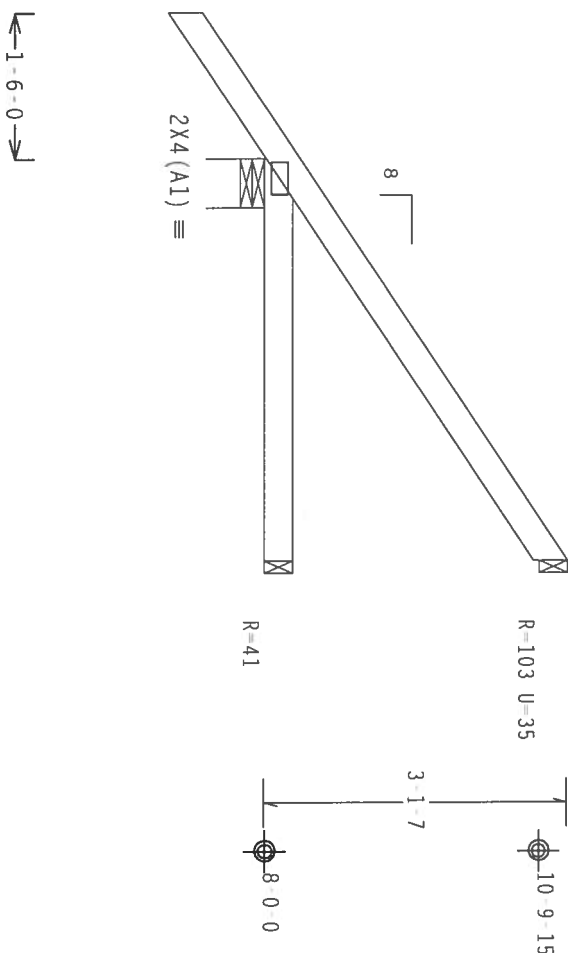
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TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320027
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT. LD.	40.0 PSF	SEQN-	60878
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TCI8228Z04

	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. 1w1.00 GCpt (+/-) -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.



0 4 14 3-8-10  
4-1-8 Over 3 Supports →  
R=306 U=13 W=6"

PLT TYP. Wave

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

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

7.36.042

QTY:1

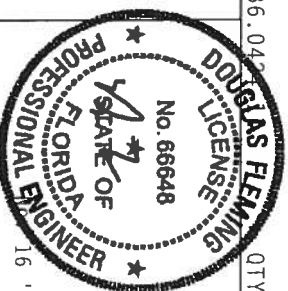
FL/-/4/-/E/-/-

Scale = .5" / Ft.

\*\*\*WARNING\*\*\*: THESE PANELS REQUIRING CARE IN LIFTING, UNLOADING, SHIPPING, INSTALLING AND PRACTICE  
 RIGOR TO BEST ASSURE PROPER COMPONENT SAFETY INFORMATION. PUBLISHED BY THE CRUSS PRACTICE INSTITUTE, 218  
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK MOORE TRUSSING COUNCIL OF AMERICA, 65000  
 ENTERPRISE LANE, MIDDLETOWN, MI 48157 FOR SAFETY PRACTICES PRIOR TO REARRANGING THESE STRUCTURES. INTERESTED  
 INDIVIDUALS INDICATED THEY COULD 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 # 0370



TC LL	20.0 PSF	REF	R8228- 58671
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320051
BC LL	0.0 PSF	HC-ENG DF/DF	*
TOT.LD.	40.0 PSF	SEQN-	60893
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC1R278Z04

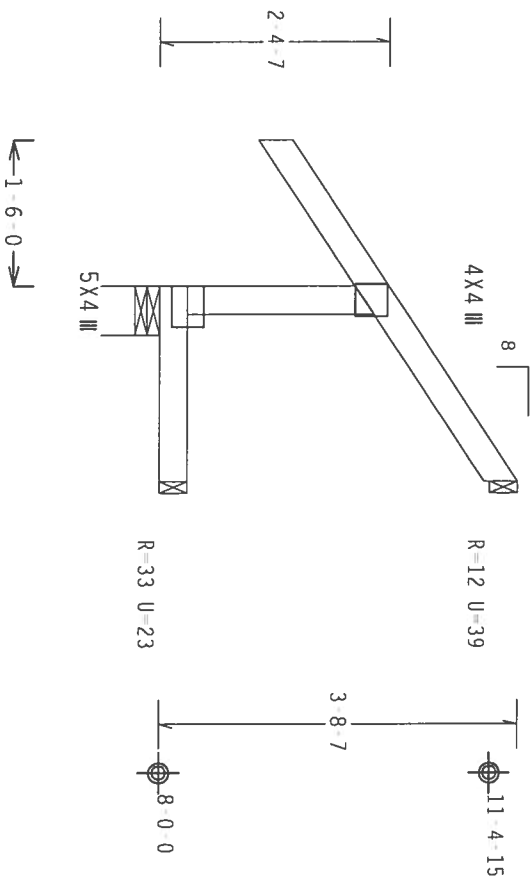
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Web	2x4	SP	#2	Dense

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

Left end vertical not exposed to wind pressure.

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.



PLT TYP. Wave

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

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

7.36.0

QTY:1

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

Scale = .5"/ft.

Design Crit: TPI-2002(STD)/FBC

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

7.36.0

QTY:1

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

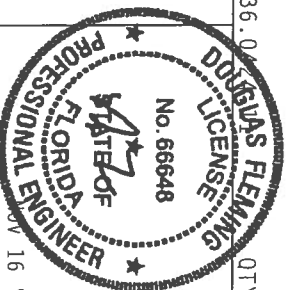
Scale = .5"/ft.

**WARNING:** THESE PRODUCTS EXISTING IN THE INSTALLATION, HANDLING, SHIPPING, UNLOADING, AND DRIFTING, REFER TO ACSEI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 OR TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, SUITE 150, W-31319 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE 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 Adoption # 0000000000



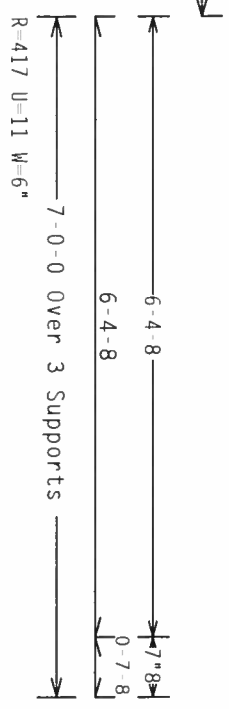
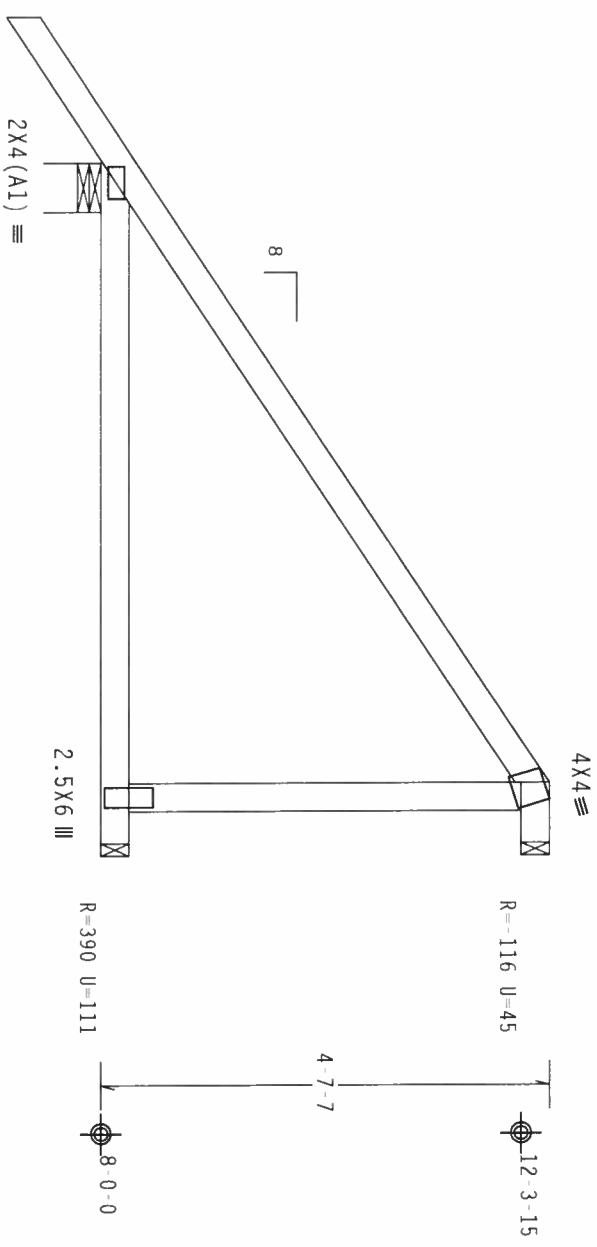
Nov 16, 07

FL/-/4/-/E/-/-		Scale = .5"/Ft.
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TC DL	10.0 PSF	DATE 11/16/07
BC DL	10.0 PSF	DRW HCU8R8228 07320046
BC LL	0.0 PSF	HC-ENG DF/DF *
TOT.LD.	40.0 PSF	SEQN- 60897
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TC1R27RZ04

( 7 329 Sparks Construction Cochenour Lot 6 Pinemount Meadows Subdvn , \*\* E07C )  
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"  
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Bearing reaction of -115# at (7'-0.0, 12'-3.15), requires special connection to resist uplift from loads other than wind.  
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  
Wind reactions based on MWFRS pressures.

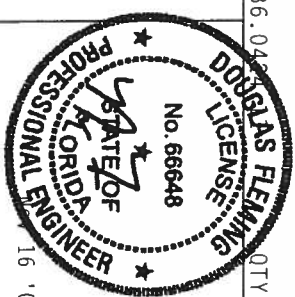


PLT TYP. Wave  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0)  
7.36.04  
QTY: 1  
FL/-/4/-/E/-/-  
Scale = .5" / Ft.

**\*\*WARNING\*\*** TRUSSES RIGIDLY ATTACHED TO FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) 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 TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ALSEA) AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 70/10/16GA (W/15/5/5) ASTM A653 GRADE 40/60 (W, K2H/55) GALV STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, AND 160B. INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE REQUIRED AS OF 1/1/2002 SEC. 2. A SEAL ON THIS CONNECTION PLATE SHALL BE PROVIDED BY THE MANUFACTURER. THE SEAL SHALL BE USED FOR THE DESIGNER'S DECISION. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

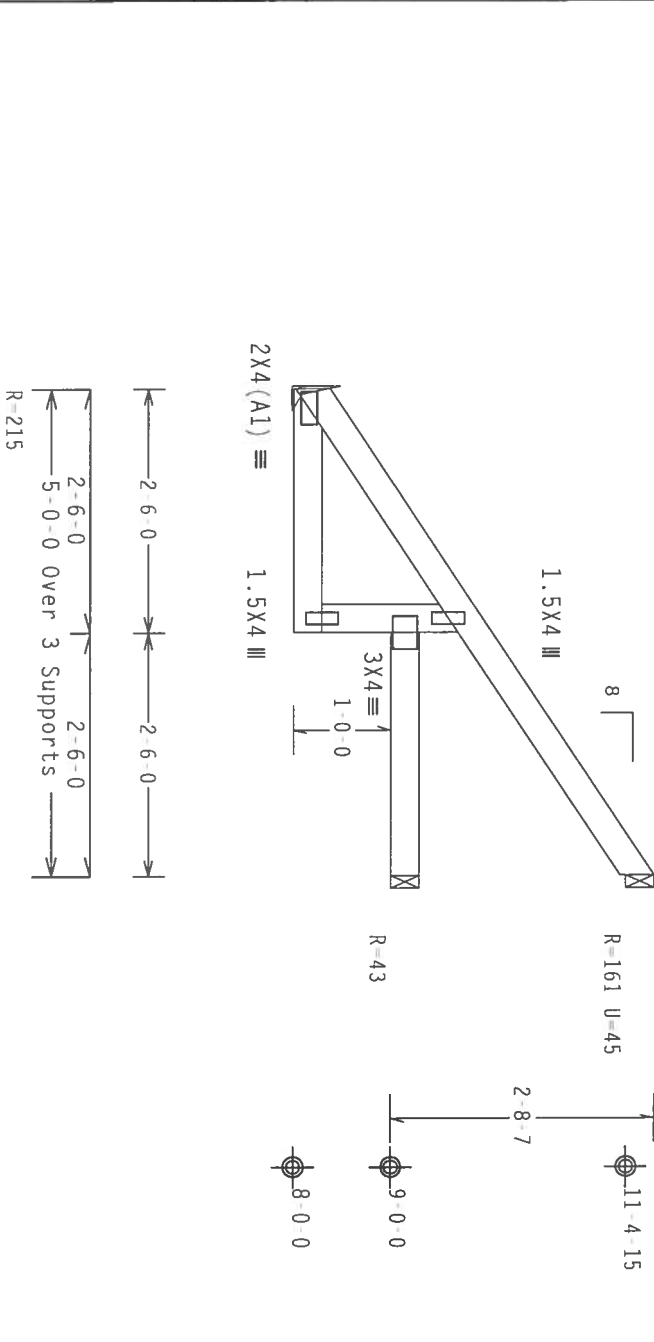
ALPINE  
TPI Building Components Group, Inc.  
Haines City, FL 33844  
FL 16 '07



TC LL	20.0 PSF	REF	R8228- 58673
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320047
BC LL	0.0 PSF	HC-ENG DF/DF	*
TOT.LD.	40.0 PSF	SEQN-	60905
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	1TCIR228204

( 7-329 - Sparks Construction Cochenour - Lot 6 Pinemount Meadows Subdvn , \*\* - E05 )  
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. Iw=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 MMFRS pressures.



PLT TYP. Wave  
Design Crit: TPI-2002 (STD) /FBC  
Cq/RT=1.00(1.25)/0(0)  
7.36.042  
QTY:1  
FL/-/4/-/E/-/-  
Scale =.5"/Ft.

**\*\*WARNING\*\*** TRUSSES ARE NOT TO BE USED IN FABRICATION, 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, 22304) 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 PARTS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** TURNISH 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 TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Approval # 0770  
ALPINE  
CORPORATION

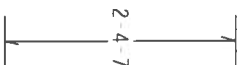


TC LL	20.0 PSF	REF R8228- 58674
TC DL	10.0 PSF	DATE 11/16/07
BC DL	10.0 PSF	DRW HCUR8228 07320012
BC LL	0.0 PSF	HC-ENG DF/DF
TOT.LD.	40.0 PSF	SEQN- 61060
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TC18228Z04



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 MWRFS pressures.



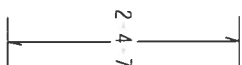
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DOUBLE  
LICENSE  
No. 66648

REF	R8228 - 58675
DATE	11/16/07

TC LL	20.0 PSF	REF	R8228- 58675
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCSUR8228 07320011
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61065
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC18228Z04

Wind reactions based on MFRS pressures.



R-268 U-17 W-6

Scale = .5"/Ft.

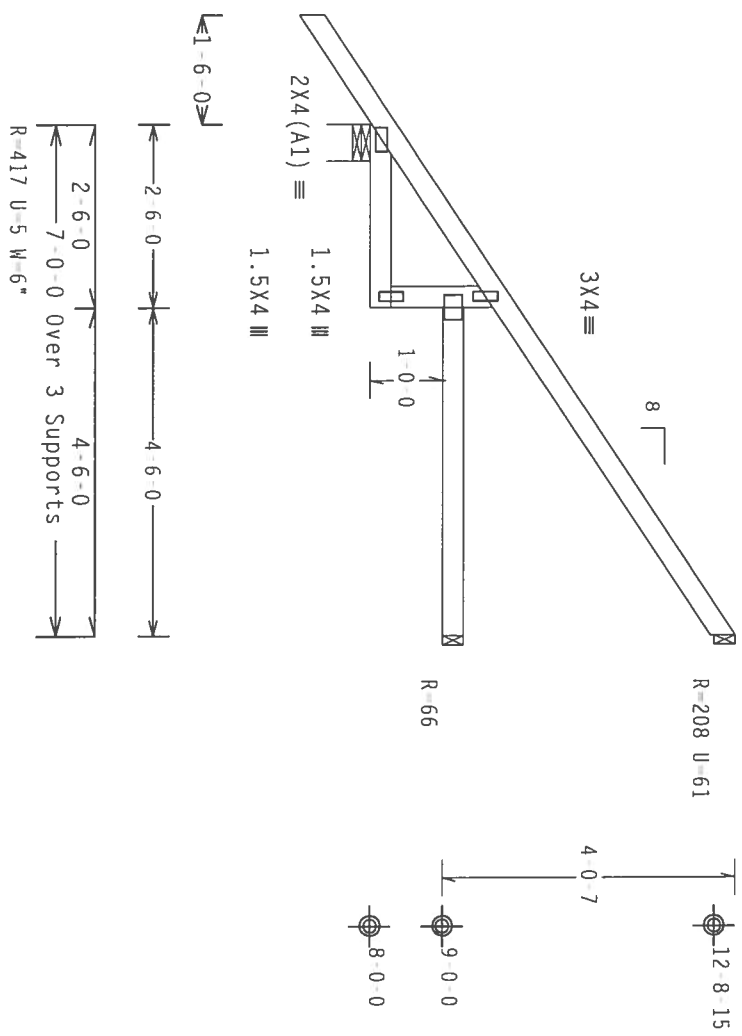
**\*\*IMPORTANT\*\*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IT11: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

REF	R8228- 58676
DATE	11/16/07
DRW	HCU8R8228 07320009
HC-ENG	DF/DF
SEQN-	61069
FROM	AH
JREF-	1TC182282704

( 7-329 - Sparks Construction Cochenour - Lot 6 Pinemount Meadows Subdivn , \*\* - E07A )  
 Top chord 2x4 SP #2 Dense  
 Bot chord 2x4 SP #2 Dense  
 Webs 2x4 SP #3

Calculated horizontal deflection is 0.11" due to live load and 0.17" 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 II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf.  $I_w=1.00$   $GCP(+/-)=0.18$   
 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.



PLT TYP. Wave  
 Design Crit: TPI-2002(STD)/FBC  
 Cq/RT=1.00(1.25)/0(0)  
 QTY: 1 FL/-/4/-/E/-/1-  
 Scale = .375"/Ft.

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSTI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH ITC STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LAKE, 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.

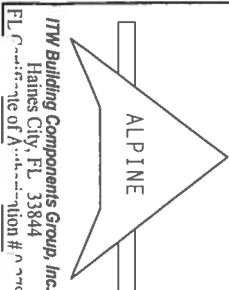
**\*\*IMPORTANT\*\*** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN COMPLIES WITH APPLICABLE PROVISIONS OF WDS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 2014/T6A (4090/55) ALUMINUM GRADE 40/60 (4, K/11.55) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PERMITTED AS OF TPI 2002, ETC.

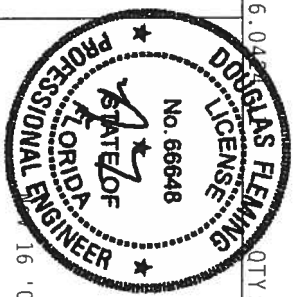
THIS TRUSS IS DESIGNED FOR THE FOLLOWING LOADS: DEAD LOAD (DL) = 5.0 PSF, LIVE LOAD (LL) = 10.0 PSF, WIND LOAD (WL) = 11.0 PSF, TOTAL LOAD (TOT. LD.) = 26.0 PSF. A SEAL ON THIS DESIGN SIGNATURE SHALL BE AFFIXED TO THE TRUSS COMPONENT FOR THE DESIGN CONTRACTOR'S USE.

THIS TRUSS IS DESIGNED FOR THE FOLLOWING LOADS: DEAD LOAD (DL) = 5.0 PSF, LIVE LOAD (LL) = 10.0 PSF, WIND LOAD (WL) = 11.0 PSF, TOTAL LOAD (TOT. LD.) = 26.0 PSF. A SEAL ON THIS DESIGN SIGNATURE SHALL BE AFFIXED TO THE TRUSS COMPONENT FOR THE DESIGN CONTRACTOR'S USE.

THIS TRUSS IS DESIGNED FOR THE FOLLOWING LOADS: DEAD LOAD (DL) = 5.0 PSF, LIVE LOAD (LL) = 10.0 PSF, WIND LOAD (WL) = 11.0 PSF, TOTAL LOAD (TOT. LD.) = 26.0 PSF. A SEAL ON THIS DESIGN SIGNATURE SHALL BE AFFIXED TO THE TRUSS COMPONENT FOR THE DESIGN CONTRACTOR'S USE.



ITW Building Components Group, Inc.  
 Gaines City, FL 33844  
 FL Permit # 070

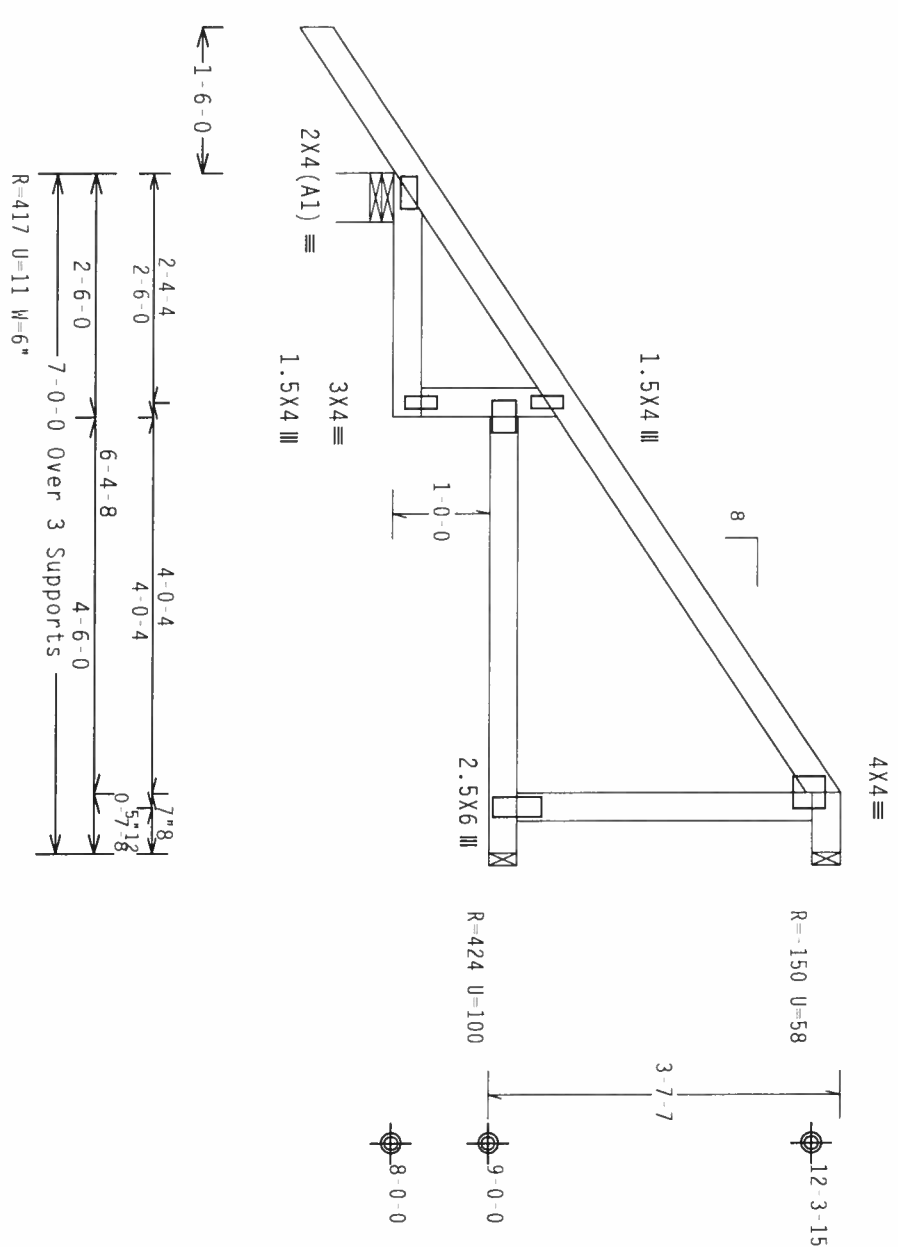


TC LL	20.0 PSF	REF R8228-58677
TC DL	10.0 PSF	DATE 11/16/07
BC DL	10.0 PSF	DRW HCUR8228 07320033
BC LL	0.0 PSF	HC-ENG DF/DF
TOT. LD.	40.0 PSF	SEQN- 61081
DUR. FAC.	1.25	FROM AH
SPACING	24.0"	JRFF- 1TCI8228Z04

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

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

Bearing reaction of -149# at (7'-0.0, 12'-3.15), requires special connection to resist uplift from loads other than wind.  
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.  $I_w=1.00$   $GCF(+/-)=0.18$   
Wind reactions based on MWFRS pressures.

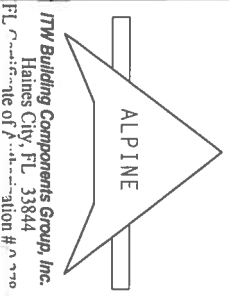


PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/0(0) 7.36.04 QTY:1 FL/-/4/-/E/-/ Scale =.5"/ft.

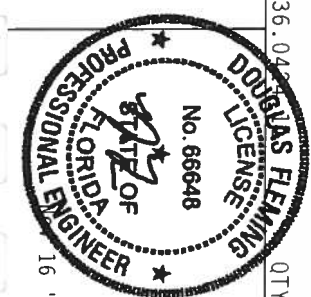
\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCGI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (WOOD CORD TRUSS COUNCIL OF AMERICA, 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\*\* TURNISH 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 TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

ITW BCGI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (WOOD CORD 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.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Registration # 070



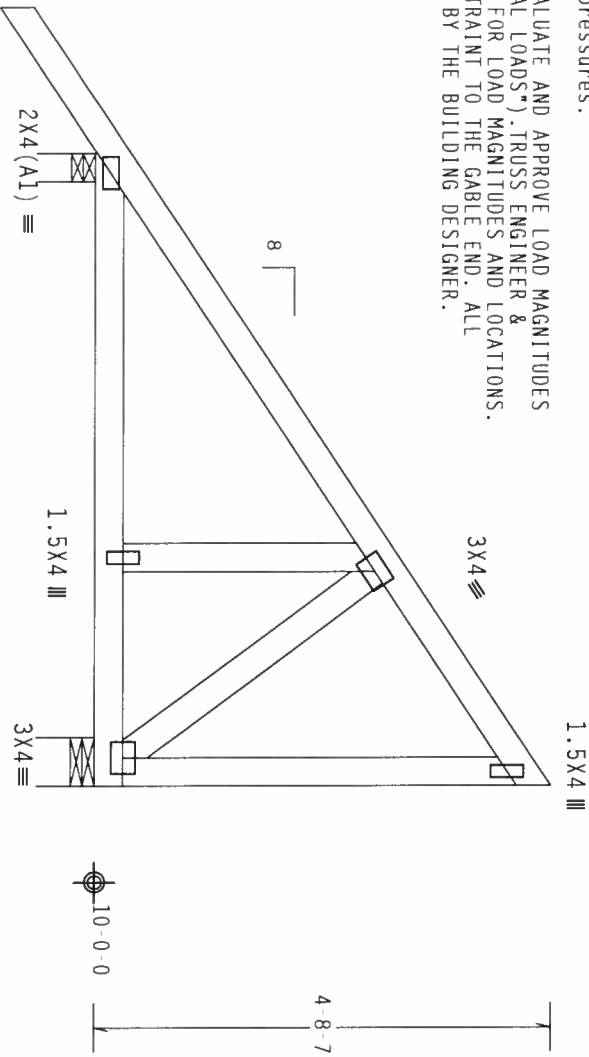
TC LL	20.0 PSF	REF	R8228 - 58678
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07320017
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT. LD.	40.0 PSF	SEQN	61087
DUR. FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF	1TC18228Z04

SPECIAL LOADS  
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	64 PLF at -1.50 to	64 PLF at 4.00
TC - From	241 PLF at 4.00 to	241 PLF at 6.50
BC - From	5 PLF at -1.50 to	5 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 6.50
TC -	138 LB Conc. Load at	4.00

Wind reactions based on MFRS pressures.

THE BUILDING DESIGNER SHALL EVALUATE AND APPROVE LOAD MAGNITUDES AND LOCATIONS AS SHOWN ("SPECIAL LOADS"). TRUSS ENGINEER & FABRICATOR ARE NOT RESPONSIBLE FOR LOAD MAGNITUDES AND LOCATIONS. PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.



1'-6"-0"

4'-1'-12" 4'-1'-12" 2'-2'-8" 2'-4'-4" 1'-12"  
6'-6"-0" Over 2 Supports  
R=539 U=134 W=3.5"  
R=691 U=172 W=6"

PLT TYP. Wave

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

7.36.042

Scale = 5"/Ft.

\*\*\*WARNING\*\*\* TRUSSES ARE TO BE INSTALLED EXACTLY AS SHOWN IN THE TRUSS LAYOUT. NO MODIFICATIONS ARE TO BE MADE TO THE TRUSS LAYOUT. THE TRUSS ENGINEER & FABRICATOR ARE NOT RESPONSIBLE FOR LOAD MAGNITUDES AND LOCATIONS. PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS ARE TO BE PROVIDED BY THE BUILDING DESIGNER.



TC LL	20.0 PSF	REF	R8228-58679
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07320063
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT. LD.	40.0 PSF	SEON-	61556

FROM AH  
JREF-1TC18228Z04

ALPINE  
ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization #00070



DUR.FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JREF-	1TC18228Z04

[illegible]

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. 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 (+/-)=0.55

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Right end vertical not exposed to wind pressure.

R=866 U=206 W=3.5"

Scale = .5" / Ft.

DOUBLE  
LICENSE  
No. 66648

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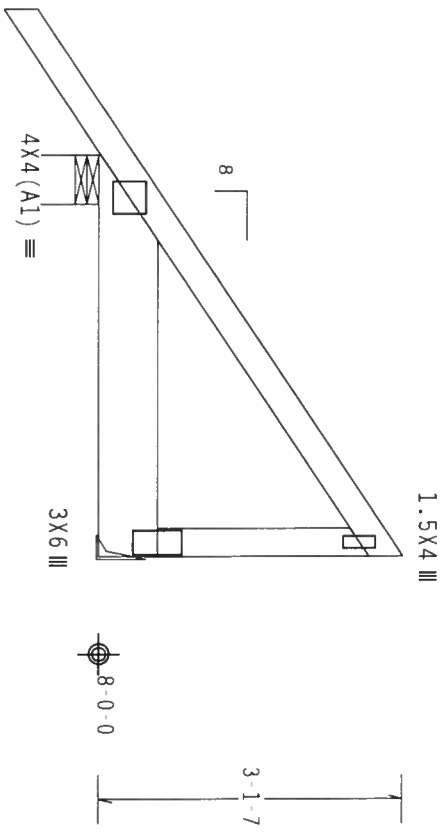
TC LL	20.0 PSF	REF	R8228 - 58680
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCSUR8228 07320019
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN -	61048
DUR.FAC.	1.25	FROM	AH
SPACING SEE ABOVE		JREF -	1TC18228Z04

( 7 329 Sparks Construction Cochenour Lot 6 Pinemount Meadows Subdvn . \*\* M3 )  
Top chord 2x4 SP #2 Dense  
Bot chord 2x8 SP SS  
Webs 2x4 SP #3

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. Iw=1.00 GCPI(+/-)=0.18

Wind reactions based on MMFRS pressures.

SPECIAL LOADS  
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 64 PLF at -1.50 to 64 PLF at 4.13  
BC - From 5 PLF at -1.50 to 5 PLF at -0.00  
BC - From 20 PLF at -0.00 to 20 PLF at 4.13  
PLB - 1377 LB Conc. Load at (1.73,8.04), (3.73,8.04)  
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.



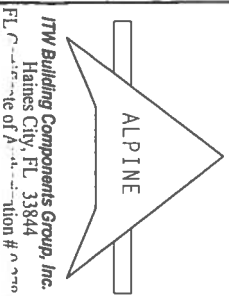
1'-6" ->  
3'-1'-12" ->  
4'-1'-8" Over 2 Supports ->  
R=1272 U=118 W=6" R=1931 U=132

PLT TYP. Wave  
Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0)  
7.36.042  
Scale = .5"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BRACING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6200 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 OF TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF BCS (NATIONAL DESIGN SPEC. BY AIA/PJA) AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 70/18/16GA (W/H/S/S) ASH ASS3 GRADE 40/60 (Q, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS T60A Z. UNLESS OTHERWISE INDICATED, THE SILLING AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 58681
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320052
BC LL	0.0 PSF	HC-ENG DF/DF	
TOT.LD.	40.0 PSF	SEQN-	61455
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TCI8228Z04



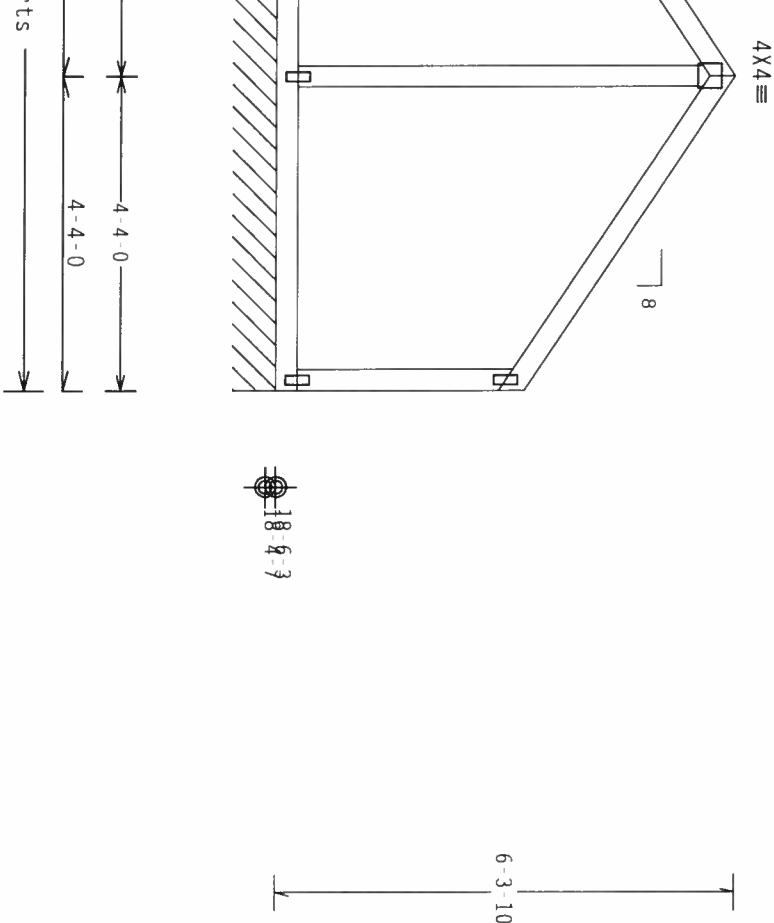


PB6 )

SPECIAL LOADS  
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC From 64 PLF at 0.00 to 64 PLF at 9.67

Right end vertical not exposed to wind pressure.

Deflection meets  $L/240$  live and  $L/180$  total load. Creep increase



7.36.042 **PLAS FLE** QTY

Scale = .375"/Ft.

BRACING. 218  
HIT. 6300  
UNLESS  
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No. 66648

SHALL NOT

STATE OF

11H BCG  
EL. APPLY

PROFESSIONAL ENGINEER

ONAL - 10

16.0

FROM AH  
JREF - 1TC18228Z0,

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

110 mph wind, 19.48 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=2.0 psf.  $1w=1.00 G C p i (+/-)=0.18$

Wind reactions based on MWFRS pressures.

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

Refer to DWG PIGBACKB0207 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

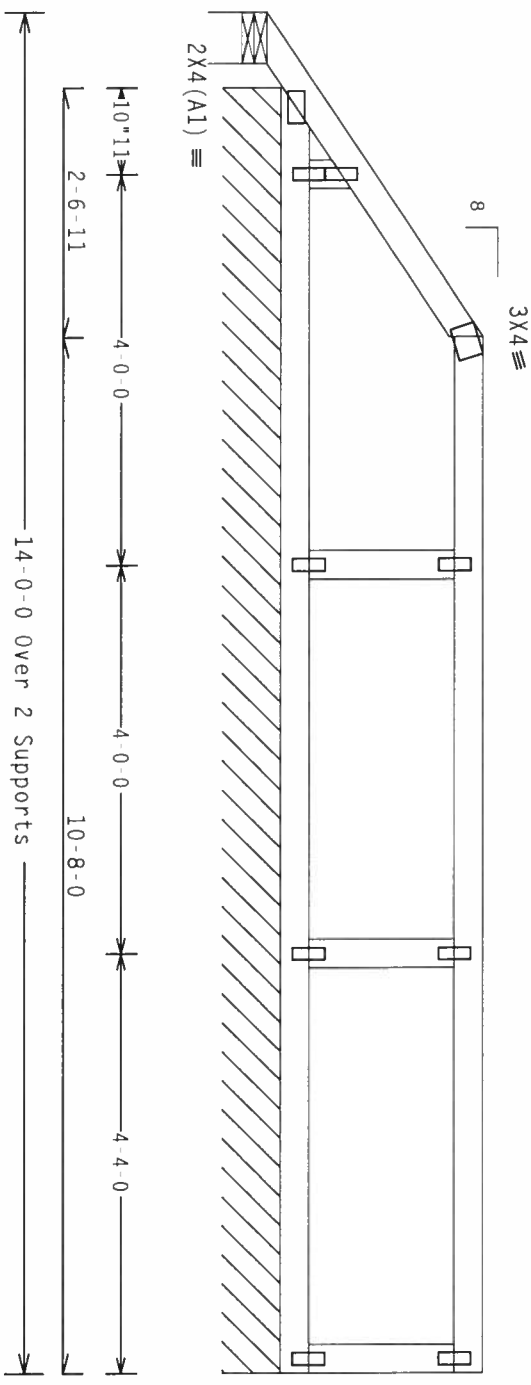
SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

TC - From	64 PLF at 0.00 to	64 PLF at 3.33
TC - From	64 PLF at 3.33 to	64 PLF at 14.00
BC - From	4 PLF at 0.00 to	4 PLF at 14.00

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.



18-4-3

2-0-15

R=13 U=10 W=6.31"  
R=70 PLF U=23 PLF W=13-2-12

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.36.0

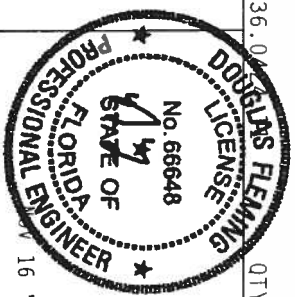
QTY: 1 FL/-/4/-/E/-/-

Scale = .5" / Ft.

\*\*\*WARNING\*\*\* TRUSSES, BRIDGES, EXTERNAL GABLES, IN FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE

TTW Building Components Group, Inc.  
Haines City, FL 33844  
FL 33844



TC LL	20.0 PSF	REF	R8228-58684
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320066
BC LL	0.0 PSF	HC-ENG DF/DF	
TOT.LD.	40.0 PSF	SEQN-	61240
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TCI8228Z04

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

110 mph wind, 20.15 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=2.0 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.

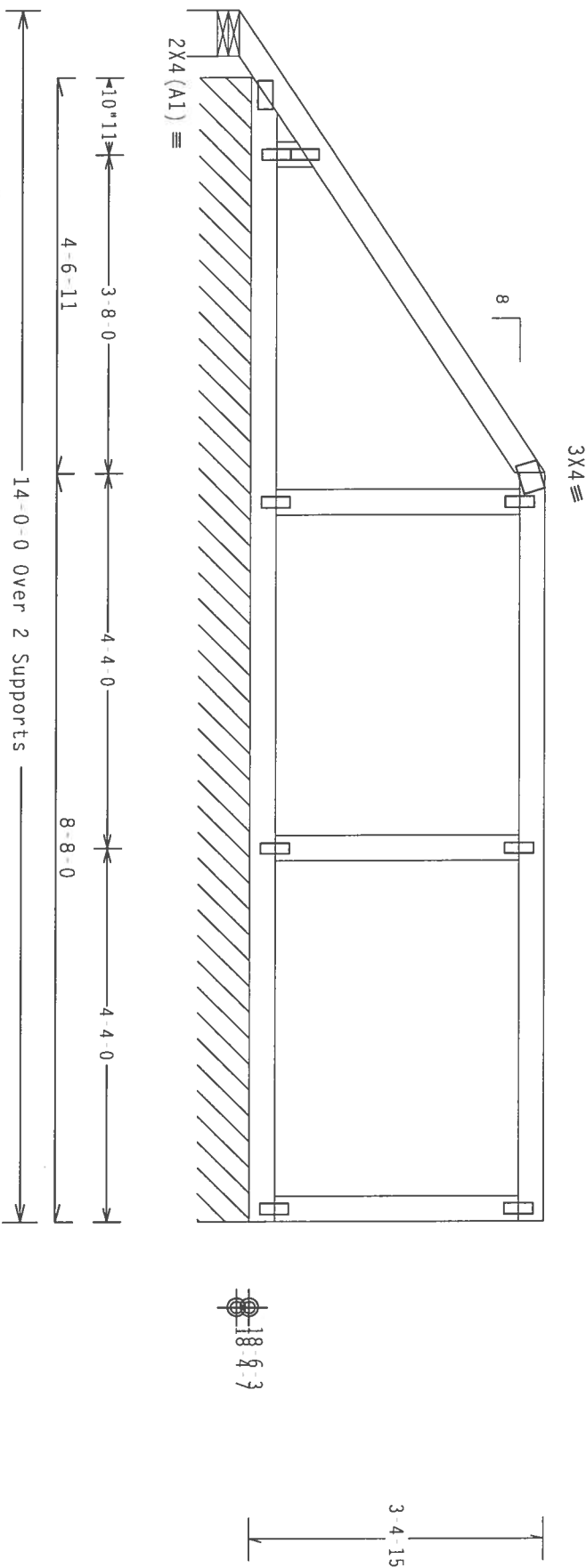
Refer to DWG PIGBACKB0207 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE  
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

----- ( LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25 )  
TC - From 64 PLF at 0.00 to 64 PLF at 5.33  
TC - From 64 PLF at 5.33 to 64 PLF at 14.00  
BC - From 4 PLF at 0.00 to 4 PLF at 14.00

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace  
all flat TC @ 24" OC, all BC @ 24" OC.



R=13 U=22 W=6.31"  
R=70 PLF U=26 PLF W=13-2-12

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.36.042

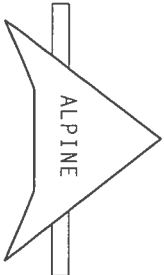
QTY:1

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

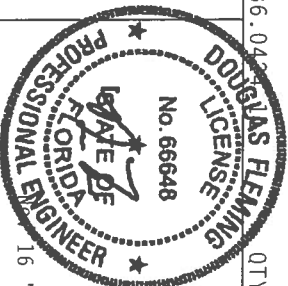
Scale = .5"/ft.

\*\*\*WARNING\*\*\* TRUSS'S REQUIRE EXTERIOR CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.  
REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WICK GOOD TRUSS COUNCIL OF AMERICA, 6300  
ENTERPRISE LANE, MADISON, WI 53719) 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 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 TO BUILD THE TRUSS IN CONFORMANCE WITH  
TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HUD (NATIONAL DESIGN SPEC. BY AIA/AIA AND TPI. ITW BCG  
CONNECTION PLATES ARE MADE OF 2018/16GA (W-0.05/5) ASH AND 30 GA 40/60 (W-0.055) GALV. STEEL. APPLY  
ALL SPECIFICATIONS OF TPI TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2,  
AND SPECIFICATIONS OF TPI TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2,  
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY 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/SPRI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 07070



TC LL	20.0 PSF	REF	R8228- 58685
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07320059
BC LL	0.0 PSF	HC-ENG DF/DF	
TOT.LD.	40.0 PSF	SEON-	61244
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC18228Z04

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

110 mph wind, 20.81 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=2.0 psf. 1w=1.00 GCP(+/-)=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.

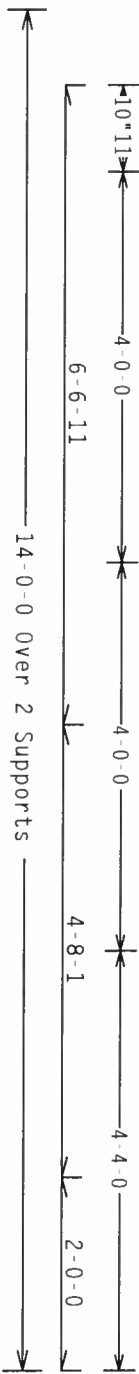
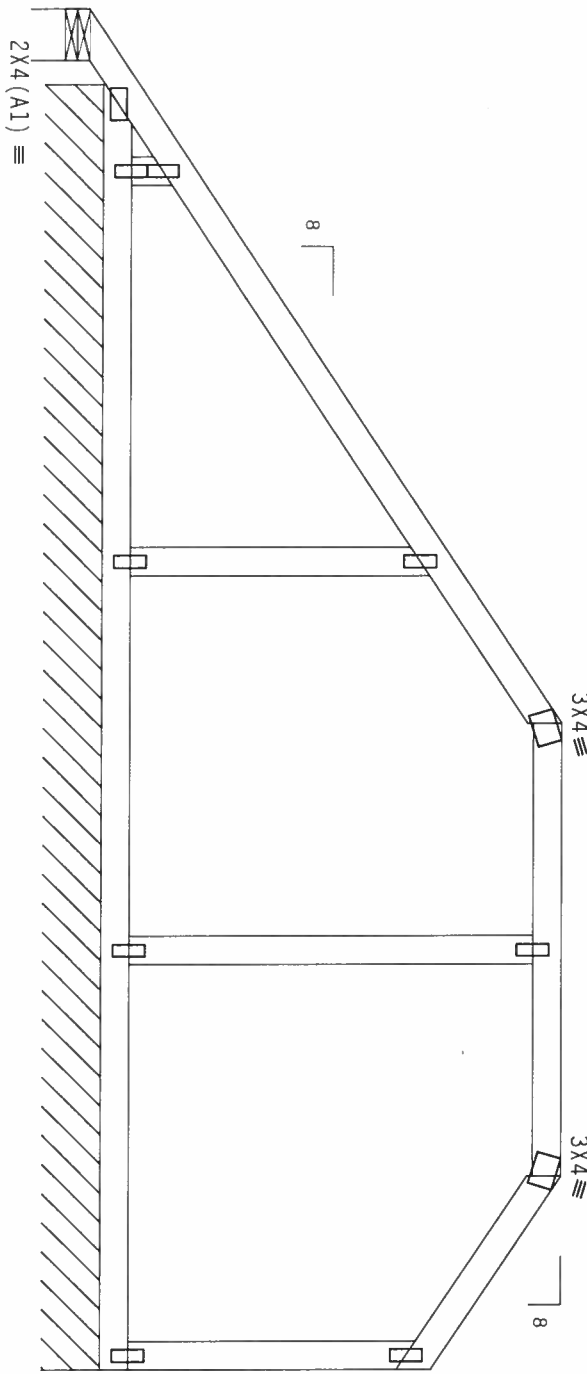
Refer to DWG PIGBACK0207 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

TC - From	64 PLF at 0.00 to	64 PLF at 7.33
TC - From	64 PLF at 7.33 to	64 PLF at 12.00
TC - From	64 PLF at 12.00 to	64 PLF at 14.00
BC - From	4 PLF at 0.00 to	4 PLF at 14.00

Right end vertical not exposed to wind pressure.

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.



R=14 U=40 W=6.31"

R=70 PLF U=26 PLF W=13-2-12

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.36.00

QTY:1

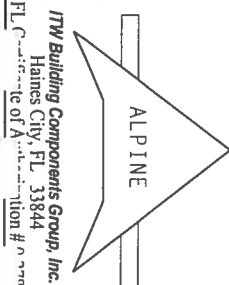
FL/-/4/-/E/-/-

Scale =.5"/ft.

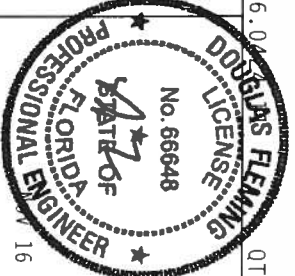
\*\*\*WARNING\*\*\* TRUSSES, RIGID, EXTERIOR, CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 216 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 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. ITW 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 CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W/AS/VS) ASH/AL55 GRADE 40/60 (A, K/1, S5) GALV. STEEL. APPLY ANY INSPECTION OF PLATE CONNECTIONS AND, UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AWS/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Authorization # 00000000



TC LL	20.0 PSF	REF	R8228- 58686
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HGUSR8228 07320041
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61248
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	1TCIR278Z04

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

110 mph wind, 21.48 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=2.0 psf.  $I_w=1.00$   $G C p (+/-)=0.18$

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.

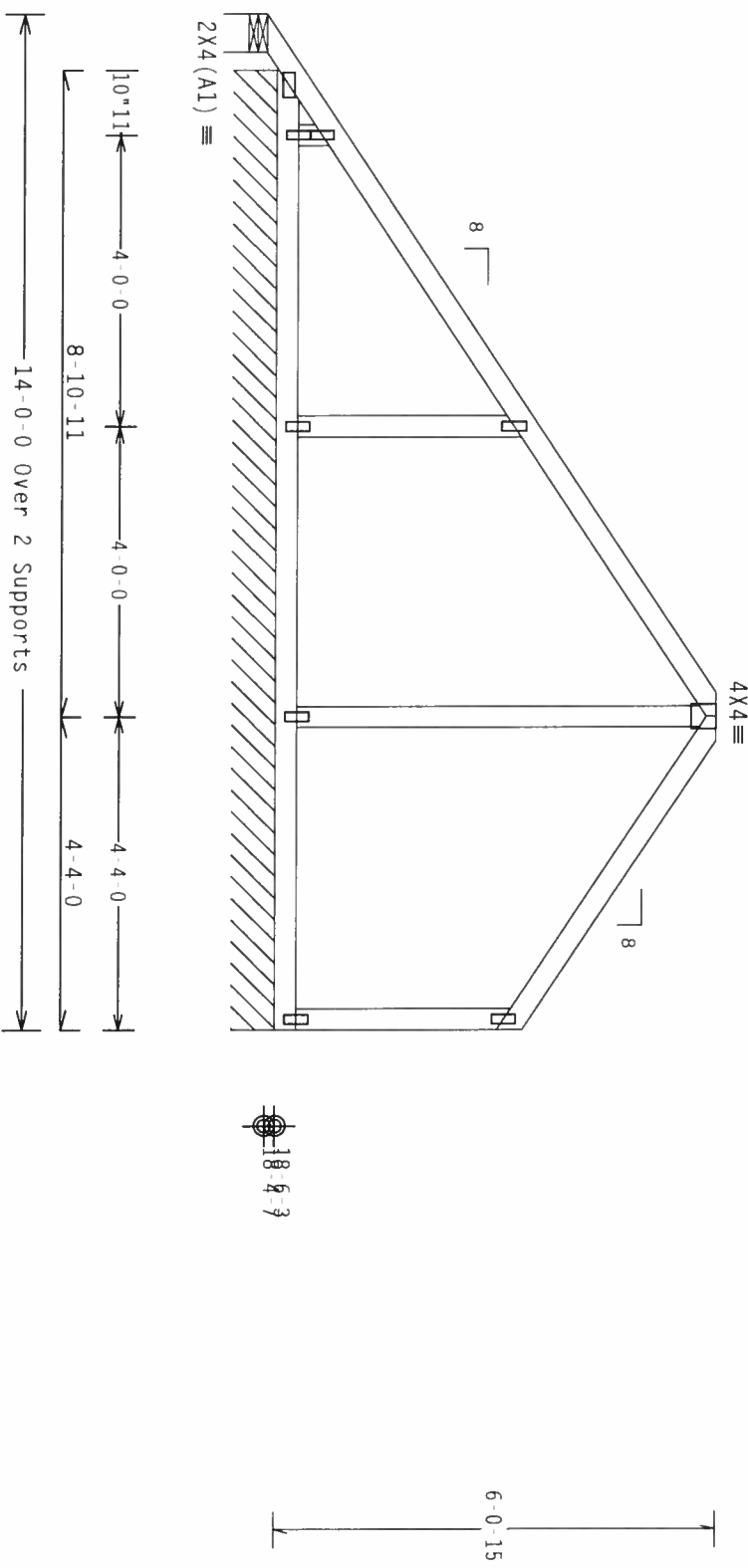
Refer to DWG PIGBACK0207 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 64 PLF at 0.00 to 64 PLF at 9.33  
TC - From 64 PLF at 10.00 to 64 PLF at 14.00  
BC - From 4 PLF at 0.00 to 4 PLF at 14.00

Right end vertical not exposed to wind pressure.

In lieu of rigid ceiling use purlins to brace BC @ 24" OC.



R=14 U=60 W=6.31"  
R=66 PLF U=26 PLF W=13-2-12

Note: All Plates Are 1.5X4 Except As Shown.

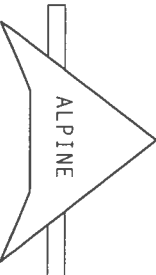
PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC  
Cq/RT=1.00(1.25)/0(0)

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

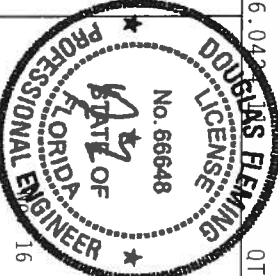
Scale = .375"/ft.

**\*\*WARNING\*\*** TRUSSES REMAIN EXTERIOR. CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314), AND WICK (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. ITW 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 905 (NATIONAL DESIGN SPEC. BY AIA/ASA AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (WALUS/VS) ASH 6053 GRADE 40/60 (W, K70, SS) GALV. STEEL. APPLY THE FOLLOWING TO ALL TRUSSES AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A Z. ANY INSPECTION OF TRUSSES SHALL BE IN ACCORDANCE WITH TPI-2002 (STD) FOR THE TRUSS COMPONENT DRAWING. INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R8228 - 58687
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320056
BC LL	0.0 PSF	HC-ENG DF/DF	
TOT. LD.	40.0 PSF	SEQN-	61252
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	1TCIR278Z04

PB5 )

SPECIAL LOADS  
-----  
(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC From 64 PLF at 0.00 to 64 PLF at 8.00

TC - From	64 PLF at 11.34 to	64 PLF at 14.00 to
BC - From	4 PLF at 0.00 to	4 PLF at 14.00 to

100

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.

3X4 ≡



14-0-0 Over 2 Supports

Design Crit: TPI-2002(STD)/FBC

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

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

Scale = .5" / Ft.

ING  
LICENSE  
No. 66648

0.0 psf

HC-ENG DT/DT

DUK.FAL. 1.23

FROM AH

SPACING 24.0"

JREF - 11C18778Z04

SPECIAL LOADS  
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 64 PLF at 0.00 to 64 PLF at 6.00

	From	to	PLF	at	PLF
BC -	4	0.00	to	4	19.34
TC -	64	13.34	to	64	19.34
FC -	4	0.00	to	4	19.34



7.36.042 GLASS FLEA QTY:1 FL/-/4/-/E/

BRACING, TULE, 218 A., 6300 UNLESS SHALL HAVE		TC LL 20.
		TC DL 10.

10. BC DL

STATE OF  
BC LL 0.

TOT.LD. 40.

16 '07  
DUR. FAC. 1.2

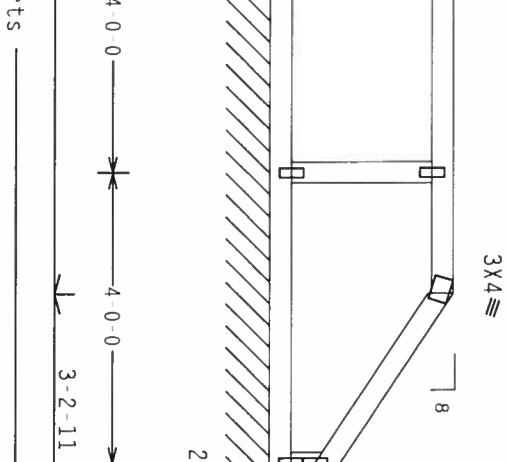
SPACING 21

COMPONENT OF THE	16 '07	DUR. FAC.	1.2
		SPACING	24

SPECIAL LOADS  
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC From 64 PLF at 0.00 to 64 PLF at 4.00

From	PLF at	To	PLF at
TC - From	64	15.34	64
BC - From	4	0.00	4

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC.


$$R=23 \quad U=9 \quad W=6.31$$

7.36.043 **AS FILE** QTY:1 FL/-/4/-/E/-/-

BRACING, 100 FT., 218 A. 6300 JUL 55 SHALL HAVE		TC LL	20.0
		TC DL	10.0

BC DL 10.0

STATE OF  
BC LL 0.0

TOT.LD. 40.0

ESSIGNAL ENGINE	16 '07	DUR.FAC.	1.25
-----------------	--------	----------	------

SPACING 24 0"

DUR.FAC.	1.25
SPACING	24.0"

Scale = .375"/ft.
REF R8228- 58690
DATE 11/16/07
DRW HCURSR8228 073200
QC-ENG DF/DF
EQN- 61299
FROM AH
DRF- 1TCIR278Z04



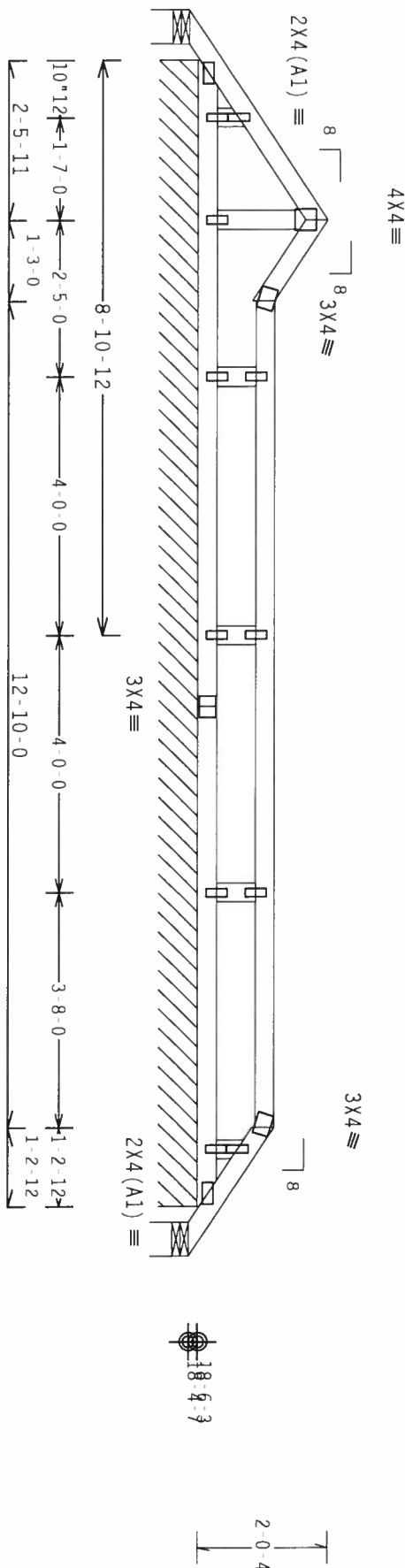
Top chord 2x4 SP #2 Dense  
Bot chord 2x4 SP #2 Dense  
Webs 2x4 SP #3

In lieu of structural panels or rigid ceiling use purlins to brace  
all flat TC @ 24" OC, all BC @ 24" OC.

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

Refer to DWG PIGBACKB0207 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE  
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS			
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)			
TC - From	64 PLF at 0.00 to	64 PLF at 3.25	
TC - From	64 PLF at 3.25 to	64 PLF at 4.50	
TC - From	64 PLF at 4.50 to	64 PLF at 17.34	
TC - From	64 PLF at 17.34 to	64 PLF at 19.34	
BC - From	4 PLF at 0.00 to	4 PLF at 19.34	



R=20 W=6.31"

R=70 PLF W=17-9-7

R=16 W=6.31"

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.36.04

QTY:1

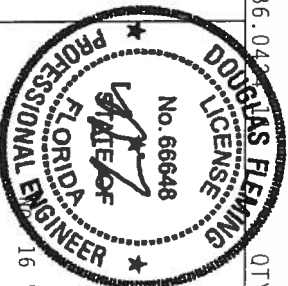
FL/-/4/-/E/-/-

Scale = .375"/Ft.

\*\*WARNING\*\* TRUSSES RIGIDLY ATTACHED TO EXISTING CEILING. THE TRUSS IN CONFORMANCE WITH  
TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.  
REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218  
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) 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.

ALPINE

ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL Certificate of Approval # 0700



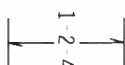
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TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07320068
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61304
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	DRFF-	1TCI8228Z04

PB1 )

SPECIAL LOADS  
-----  
(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC From 64 PLF at 0.00 to 64 PLF at 2.00

TC - From	64 PLF at 4.50 to 64 PLF at 6.50
BC - From	4 PLF at 0.00 to 4 PLF at 6.50

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



Scale = .5" / Ft.

DOUGLAS  
LICENSE  
No. 86648

57

STAFF OF

NOT RECORDED



16

TC LL	20.0 PSF	REF	R8228- 58692
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320067
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	61316
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TC18228Z04

SPECIAL LOADS  
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 60 PLF at 0.00 to 60 PLF at 18.83

110 mph wind, 19.37 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CATII, EXP B, wind TC D1=5.0 psf, BC - From 4 PLF at 0.00 to 4 PLF at 20.83

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



Shown.

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

QTY:1

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

Scale = .375"/Ft.

**WARNING:** PANELS INCLUDING EXISTING CASE, IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PRACTICE REFLECT TO DESI (BUILDING COMPONENT SPEC INFORMATION). PUBLISHED BY IPI (FIRMS PRACTICE INSTITUTE), 218 HORTON LANE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND THE (A000) TRUSS COMMITTEE OF AMERICA, 65000 ENTERPRISE LANE, HUNTSVILLE, AL 35719 FOR SAFETY PRACTICES PRIOR TO PREPARING THE HOUSE FOUNDATIONS. UNLESS OTHERWISE INDICATED, THE COLOR SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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

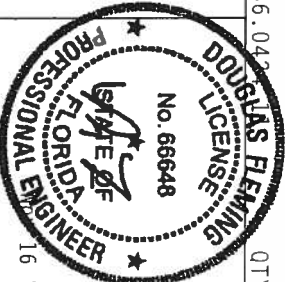
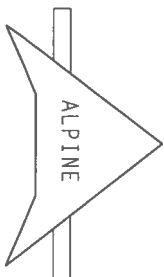
TP1, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTION PLATES ARE MADE OF 20/18/16GA (H, H/55/K) ASTM A653 GRADE 40/60 (H, K/H, 55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND INSURE CONNECTION LOCATED ON TUBE DESIGN POSITION AND BEARING LEGS.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT AND INSPECTION OF DETAILS FOLLOWED BY (1) SHORT, BUT NOT ANOMALOUS OF 1/11/2002 SEE... A SEAL ON THIS

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 7

**ITW Building Components Group, Inc.**  
Haines City, FL 33844  
FL Certificate of Authorization # 003700



TC LL	20.0 PSF	REF	R8228- 58693
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320049
BC LL	0.0 PSF	HC - ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN -	61419
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF -	1TC18228Z04

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

Bearing reaction of -15# at (20-3-11, 18-8-7), requires special connection to resist uplift from loads other than wind.

wind reactions based on MFRS pressures.

Left 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.

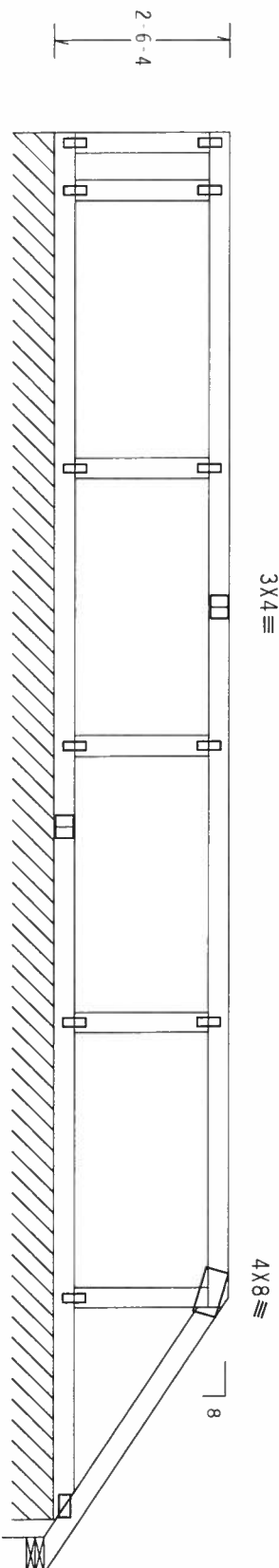
Refer to DWG PIGBACKB0207 for piggyback details.  
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)  
TC - From 60 PLF at 0.00 to 60 PLF at 16.83  
TC - From 64 PLF at 16.83 to 64 PLF at 20.83  
BC - From 4 PLF at 0.00 to 4 PLF at 20.83

110 mph wind, 20.04 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=2.0 psf.  $I_w=1.00$   $G C p_i(+/-)=0.18$

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



10'-0" 4'-0" 4'-0" 4'-0" 4'-1-12 3'-0-15 3'-0-15  
16'-11-12 20'-10-0 Over 2 Supports  
R=67 PLF U=22 PLF W=20-0-11  
R=15 U=17 W=6.31"

Note: All Plates Are 1.5X4 Except As Shown.

PLT TYP. Wave

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

7.36.042

QTY:1

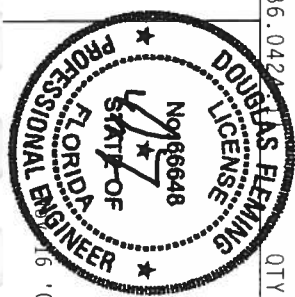
FL/-/4/-/E/-/-

Scale = .375"/ft.

\*\*\*WARNING\*\*\* TRUSSES REQUIRED FIRING CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING. AFTER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LAKE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRENGTHENING 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 NDS (NATIONAL DESIGN SPEC. BY NIPRA) AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 20/10/16GA (W/J/S/S/S) ASH 6053 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DIMENSIONS TABO-2.

MANUFACTURER OF PLATES FOLLOWING TPI SHALL BE PERMITTED AS OF 11/1/2002. SEE 3 FOR THE ASSOCIATION OF THIS MATERIALS. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.  
Haines City, FL 33844  
FL 33844  
Division of A...

TC LL	20.0 PSF	REF	R8228-58694
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07320024
BC LL	0.0 PSF	HC-ENG DF/DF	
TOT.LD.	40.0 PSF	SEQN-	61427
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRF-	1TC18278204

TC LL	20.0 PSF	REF	R8228- 58695
TC DL	10.0 PSF	DATE	11/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07320023
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEON-	61432
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	URFF-	1TC18228Z04

TOP CHORD 2X4 #2 OR BETTER  
BOT CHORD 2X4 #2 OR BETTER  
WEBS 2X4 #3 OR BETTER

## PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.  
SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

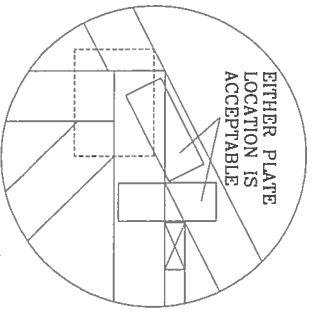
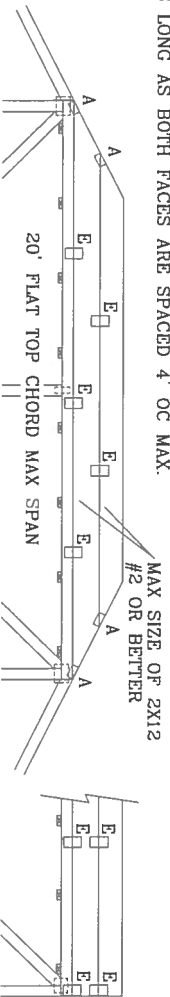
ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

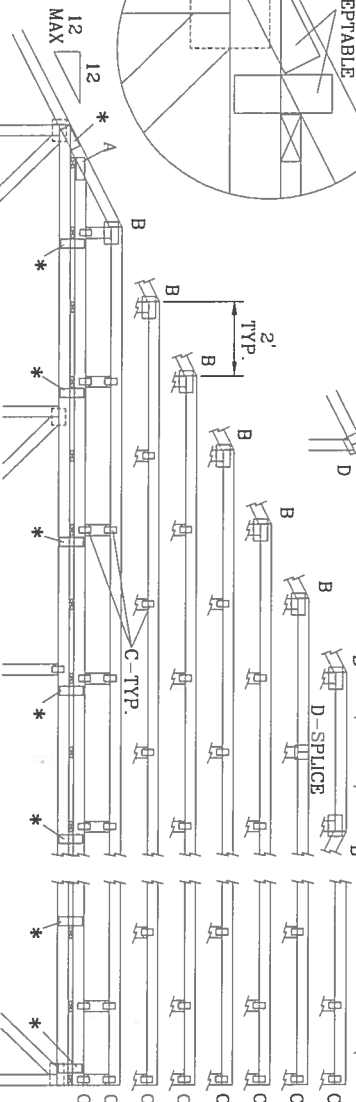
130 MPH WIND, 30' MEAN HGT, ASCE 7-98, ASCE 7-02 OR  
ASCE 7-05, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II,  
EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF  
110 MPH WIND, 30' MEAN HGT, SBC  
ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF  
WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E\*) PLATES MAY BE OFFSET FROM BACK FACE  
PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.



EITHER PLATE  
LOCATION IS  
ACCEPTABLE

OPTIONAL  
SPLICE



\*ATTACH PIGGYBACK WITH 3X8 TRULUX OR ALPINE PIGGYBACK SPECIAL PLATE.

(4) 6d BOX (0.099" X 2" MIN) NAILS.  
8" X 6" X 1/2" RATED SHEATHING GUSSETS (EACH  
FACE) MAY BE USED IN LIEU OF TRULUX PLATES.  
ATTACH WITH (9) 6d BOX (0.099" X 2" MIN) NAILS  
PER GUSSET.  
(4) IN CAP BC AND (4) IN BASE TRUSS FLAT TC.

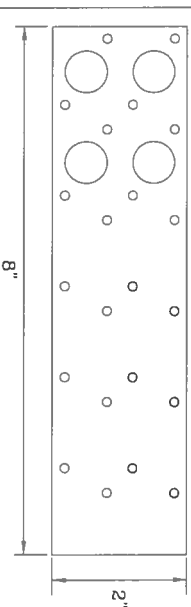
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X6	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X6 OR 3X6 TRULUX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULUX PLATES WITH (9) 0.120" X 1.375" NAILS,  
OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH  
MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL  
FOR TRULUX INFORMATION.

WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 6d BOX (0.113" X 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d BOX (0.135" X 3.5" MIN) NAILS AT 4" OC

\* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF  
FABRICATION. ATTACH TO SUPPORTING TRUSS WITH  
(4) 0.120" X 1.375" NAILS PER FACE PER PLY.  
APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE  
AND SPACE 4' OC OR LESS.



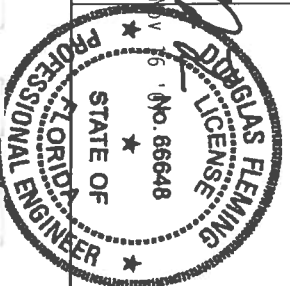
THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 847.045



ITW BUILDING COMPONENTS GROUP, INC.  
POMPANO BEACH, FLORIDA

\*\*\*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 ST., SUITE 312, ALEXANDRIA, VA 22314 AND VITCA (WOOD TRUSS COUNCIL OF  
AMERICA, 6300 ENTERPRISE LN., HANSDEN, VI 55779) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE  
CONNECTIONS UNLESS OTHERWISE INDICATED. BOTTOM 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. ITW BCG, INC. SHALL  
NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN OR FAILURE OF 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 AREA) AND TPI  
C.V. BEG CONNECTOR PLATES ARE MADE OF 50/16/16GA (A4/SS) 5016 ASH A653 GRADE 40/60 (A/K/H/SS)  
C.V. BEG CONNECTOR PLATES ARE MADE OF 50/16/16GA (A4/SS) 5016 ASH A653 GRADE 40/60 (A/K/H/SS)  
DESIGN POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FURNISHED BY OTHER THAN THIS PER  
ANNEX 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  
ANSI/TPI 1 SEC. 2.



MAX LOADING	REF	PIGGYBACK
55 PSF AT	DATE	2/23/07
1.33 DUR. FAC.	DRWG	PIGGYBACKB0207
50 PSF AT	ENG	DLJ/KAR
1.25 DUR. FAC.		
47 PSF AT		
1.15 DUR. FAC.		
SPACING		24.0"



# BOTTOM CHORD FILLER DETAIL

\* OPTIONAL INTERIOR OR CANTILEVER BEARING. MINIMUM PLATE SIZES (1X3 WAVE) MAY BE USED IF BEARING IS OMITTED. WEDGE OR VERTICAL MEMBER MUST COINCIDE WITH BEARING LOCATION.

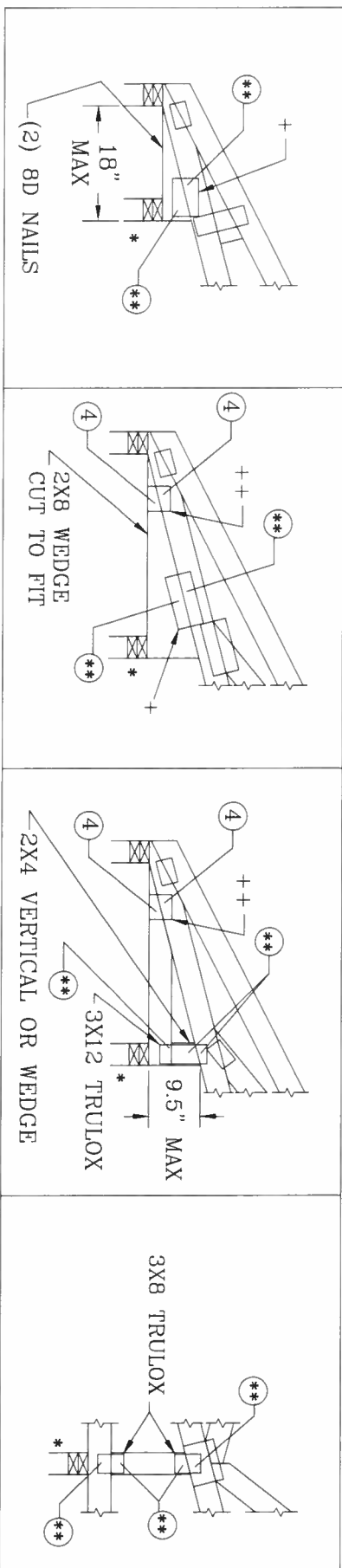
+ 3X4 WAVE OR 4X8 TRULOX  
++ 2X4 WAVE OR 3X6 TRULOX

0.120" X 1.375", NAILS, REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF THE TRUSS. SEE DWG. 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL. FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.

ALL TRULOX PLATES SHOWN ARE MINIMUMS. LARGER PLATES MAY BE REQUIRED TO ACCOMMODATE REQUIRED NAILS (\*\*)

FILLER BOTTOM CHORD OR WEDGE SPECIES	MAXIMUM REACTION		MINIMUM BEARING AREA	** REQUIRED NAILS PER FACE WITH TRULOX PLATES					
	DOWNWARD	UPLIFT		1.00 D.O.L.	1.15 D.O.L.	1.25 D.O.L.	1.33 D.O.L.	1.60 D.O.L.	
DOUGLAS FIR-LARCH	3281#	1656#	1.5" X 3.5"	12	11	10	9	8	
HEM-FIR	2126#	1095#	1.5" X 3.5"	9	8	7	7	6	
SPRUCE-PINE-FIR	2231#	1192#	1.5" X 3.5"	10	9	8	8	6	
SOUTHERN PINE DENSE	3465#	1791#	1.5" X 3.5"	12	11	10	9	8	
SOUTHERN PINE	2966#	1492#	1.5" X 3.5"	10	9	8	8	7	
SOUTHERN PINE NON-DENSE	2520#	1343#	1.5" X 3.5"	9	8	7	7	6	



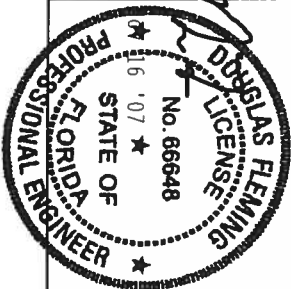
THIS DRAWING REPLACES DRAWINGS A115 A115/R & 884.132



TRUSS BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA

\*\*WARNING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22314 AND WCA (WOOD TRUSS COUNCIL OF 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. TPI BCS, 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 ASEP) AND TPI. TPI, BCS CONNECTOR PLATES ARE MADE OF 2018/16GA (V4/HSS/40) ASTM A653 GRADE 40/60 (V4/HSS) DESIGN POSITION PER TPI. PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED IN THIS PER DESIGN POSITION PER TPI. A SEAL ON THIS DRAWING INDICATES ACCEPTED PROFESSIONAL USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1, SEC. 2.



TC LL	—	PSF	REF	BC FILLER
TC DL	—	PSF	DATE	2/23/07
BC DL	10.0	PSF	DRWG	BCFILLER0207
BC LL	—	PSF	—	ENG DLJ/KAR
TOT. LD.	—	PSF		
DUR. FAC.	1.0/1.15/1.25/1.33			
SPACING	24.0"			



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.

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	ALTERNATIVE T OR L-BRACE	BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEERS SEALED DESIGN.

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



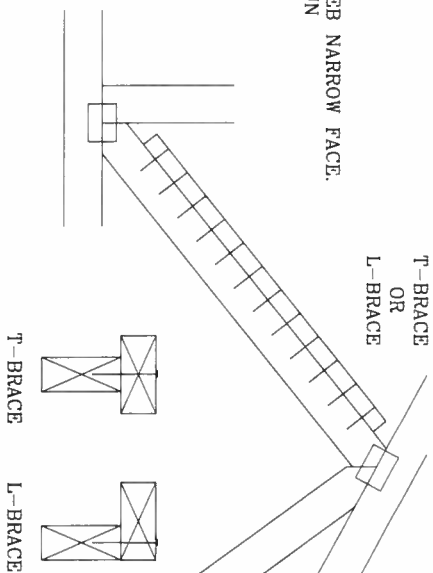
**ITW BUILDING COMPONENTS GROUP, INC.**  
**POMPANO BEACH, FLORIDA**

\*\*MASSING\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22304 AND VICA (VIRGINIA TRUSS COUNCIL), 6300 ENTERPRISE LN., HANSDEN, VA 53759 FOR SAFETY PRACTICES PRIOR TO PERFORMING THE SET AND LIFT. TRUSSES MUST BE PROPERLY INITIATED AND BRACED TO PREVENT COLLAPSE. THE SET, LIFT, AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID JOINTING.

\*\*IMPORTANT\*\* FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. TYPICAL TRUSS SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY CONTRACTOR TO BUILD THE TRUSS IN CONFORMANCE WITH THE FABRICATING, HANDLING, SHIPPING, INSTALLING, DESIGN & BRACING OF TRUSSES. DESIGN CONTRACTOR WITH APPLICABLE PROVISIONS OF NO NATIONAL DESIGN SPEC. BY AISC AND TYPICAL TRUSS CONNECTOR PLATES ARE MADE OF A36/A572/A575/A578/A579/A583/A588/A590/A593/A594/A595/A596/A597/A598/A599/A601/A602/A603/A604/A605/A606/A607/A608/A609/A610/A611/A612/A613/A614/A615/A616/A617/A618/A619/A620/A621/A622/A623/A624/A625/A626/A627/A628/A629/A630/A631/A632/A633/A634/A635/A636/A637/A638/A639/A640/A641/A642/A643/A644/A645/A646/A647/A648/A649/A650/A651/A652/A653/A654/A655/A656/A657/A658/A659/A660/A661/A662/A663/A664/A665/A666/A667/A668/A669/A670/A671/A672/A673/A674/A675/A676/A677/A678/A679/A680/A681/A682/A683/A684/A685/A686/A687/A688/A689/A690/A691/A692/A693/A694/A695/A696/A697/A698/A699/A700/A701/A702/A703/A704/A705/A706/A707/A708/A709/A710/A711/A712/A713/A714/A715/A716/A717/A718/A719/A720/A721/A722/A723/A724/A725/A726/A727/A728/A729/A730/A731/A732/A733/A734/A735/A736/A737/A738/A739/A740/A741/A742/A743/A744/A745/A746/A747/A748/A749/A750/A751/A752/A753/A754/A755/A756/A757/A758/A759/A760/A761/A762/A763/A764/A765/A766/A767/A768/A769/A770/A771/A772/A773/A774/A775/A776/A777/A778/A779/A780/A781/A782/A783/A784/A785/A786/A787/A788/A789/A790/A791/A792/A793/A794/A795/A796/A797/A798/A799/A800/A801/A802/A803/A804/A805/A806/A807/A808/A809/A810/A811/A812/A813/A814/A815/A816/A817/A818/A819/A820/A821/A822/A823/A824/A825/A826/A827/A828/A829/A830/A831/A832/A833/A834/A835/A836/A837/A838/A839/A840/A841/A842/A843/A844/A845/A846/A847/A848/A849/A850/A851/A852/A853/A854/A855/A856/A857/A858/A859/A860/A861/A862/A863/A864/A865/A866/A867/A868/A869/A870/A871/A872/A873/A874/A875/A876/A877/A878/A879/A880/A881/A882/A883/A884/A885/A886/A887/A888/A889/A890/A891/A892/A893/A894/A895/A896/A897/A898/A899/A900/A901/A902/A903/A904/A905/A906/A907/A908/A909/A910/A911/A912/A913/A914/A915/A916/A917/A918/A919/A920/A921/A922/A923/A924/A925/A926/A927/A928/A929/A930/A931/A932/A933/A934/A935/A936/A937/A938/A939/A940/A941/A942/A943/A944/A945/A946/A947/A948/A949/A950/A951/A952/A953/A954/A955/A956/A957/A958/A959/A960/A961/A962/A963/A964/A965/A966/A967/A968/A969/A970/A971/A972/A973/A974/A975/A976/A977/A978/A979/A980/A981/A982/A983/A984/A985/A986/A987/A988/A989/A990/A991/A992/A993/A994/A995/A996/A997/A998/A999/A1000/A1001/A1002/A1003/A1004/A1005/A1006/A1007/A1008/A1009/A1010/A1011/A1012/A1013/A1014/A1015/A1016/A1017/A1018/A1019/A1020/A1021/A1022/A1023/A1024/A1025/A1026/A1027/A1028/A1029/A1030/A1031/A1032/A1033/A1034/A1035/A1036/A1037/A1038/A1039/A1040/A1041/A1042/A1043/A1044/A1045/A1046/A1047/A1048/A1049/A1050/A1051/A1052/A1053/A1054/A1055/A1056/A1057/A1058/A1059/A1060/A1061/A1062/A1063/A1064/A1065/A1066/A1067/A1068/A1069/A1070/A1071/A1072/A1073/A1074/A1075/A1076/A1077/A1078/A1079/A1080/A1081/A1082/A1083/A1084/A1085/A1086/A1087/A1088/A1089/A1090/A1091/A1092/A1093/A1094/A1095/A1096/A1097/A1098/A1099/A1100/A1101/A1102/A1103/A1104/A1105/A1106/A1107/A1108/A1109/A1110/A1111/A1112/A1113/A1114/A1115/A1116/A1117/A1118/A1119/A1120/A1121/A1122/A1123/A1124/A1125/A1126/A1127/A1128/A1129/A1130/A1131/A1132/A1133/A1134/A1135/A1136/A1137/A1138/A1139/A1140/A1141/A1142/A1143/A1144/A1145/A1146/A1147/A1148/A1149/A1150/A1151/A1152/A1153/A1154/A1155/A1156/A1157/A1158/A1159/A1160/A1161/A1162/A1163/A1164/A1165/A1166/A1167/A1168/A1169/A1170/A1171/A1172/A1173/A1174/A1175/A1176/A1177/A1178/A1179/A1180/A1181/A1182/A1183/A1184/A1185/A1186/A1187/A1188/A1189/A1190/A1191/A1192/A1193/A1194/A1195/A1196/A1197/A1198/A1199/A1200/A1201/A1202/A1203/A1204/A1205/A1206/A1207/A1208/A1209/A1210/A1211/A1212/A1213/A1214/A1215/A1216/A1217/A1218/A1219/A1220/A1221/A1222/A1223/A1224/A1225/A1226/A1227/A1228/A1229/A1230/A1231/A1232/A1233/A1234/A1235/A1236/A1237/A1238/A1239/A1240/A1241/A1242/A1243/A1244/A1245/A1246/A1247/A1248/A1249/A1250/A1251/A1252/A1253/A1254/A1255/A1256/A1257/A1258/A1259/A1260/A1261/A1262/A1263/A1264/A1265/A1266/A1267/A1268/A1269/A1270/A1271/A1272/A1273/A1274/A1275/A1276/A1277/A1278/A1279/A1280/A1281/A1282/A1283/A1284/A1285/A1286/A1287/A1288/A1289/A1290/A1291/A1292/A1293/A1294/A1295/A1296/A1297/A1298/A1299/A1300/A1301/A1302/A1303/A1304/A1305/A1306/A1307/A1308/A1309/A1310/A1311/A1312/A1313/A1314/A1315/A1316/A1317/A1318/A1319/A1320/A1321/A1322/A1323/A1324/A1325/A1326/A1327/A1328/A1329/A1330/A1331/A1332/A1333/A1334/A1335/A1336/A1337/A1338/A1339/A1340/A1341/A1342/A1343/A1344/A1345/A1346/A1347/A1348/A1349/A1350/A1351/A1352/A1353/A1354/A1355/A1356/A1357/A1358/A1359/A1360/A1361/A1362/A1363/A1364/A1365/A1366/A1367/A1368/A1369/A1370/A1371/A1372/A1373/A1374/A1375/A1376/A1377/A1378/A1379/A1380/A1381/A1382/A1383/A1384/A1385/A1386/A1387/A1388/A1389/A1390/A1391/A1392/A1393/A1394/A1395/A1396/A1397/A1398/A1399/A1400/A1401/A1402/A1403/A1404/A1405/A1406/A1407/A1408/A1409/A1410/A1411/A1412/A1413/A1414/A1415/A1416/A1417/A1418/A1419/A1420/A1421/A1422/A1423/A1424/A14

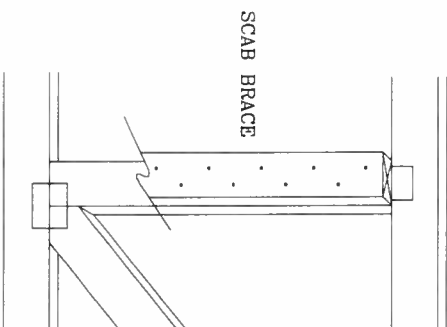
T-BRACING  
OR  
L-BRACING:

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



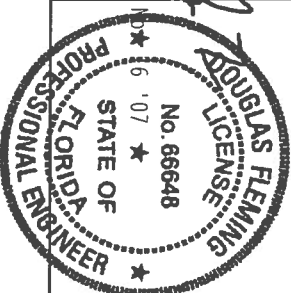
## SCAB BRACING:

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	BRCLBSUB0207
BC LL	PSF	-ENG	MLH/KAR
TOT. LD.	PSF		
DUR. FAC.			
SPACING			



MAX GABLE VERTICAL LENGTH														
2x4 CABLE VERTICAL SPACING	BRACE GRADE	NO BRACES	(1) 1x4 "L" BRACE •		(1) 2x4 "L" BRACE •		(2) 2x4 "L" BRACE •		(1) 2x6 "L" BRACE •		(2) 2x6 "L" BRACE •		(2) 2x6 "L" BRACE •	
			GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B		
24" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"	
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"	
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"	
	HF	STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"	
		#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"	
	SP	#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"	
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"	
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"	
	DFL	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"	
		#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	
		STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"	
16" O.C.	SPF	STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"	
		#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
		#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"	
	SP	#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
		STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"	
	DFL	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	
		#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	
		STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"	
	12" O.C.	SPF	STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
			#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
			#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
SP		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
		STUD	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"	
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"	

CABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS  $L/240$ .

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

GABLE END SUPPORTS LOAD FROM 4' 0"

PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

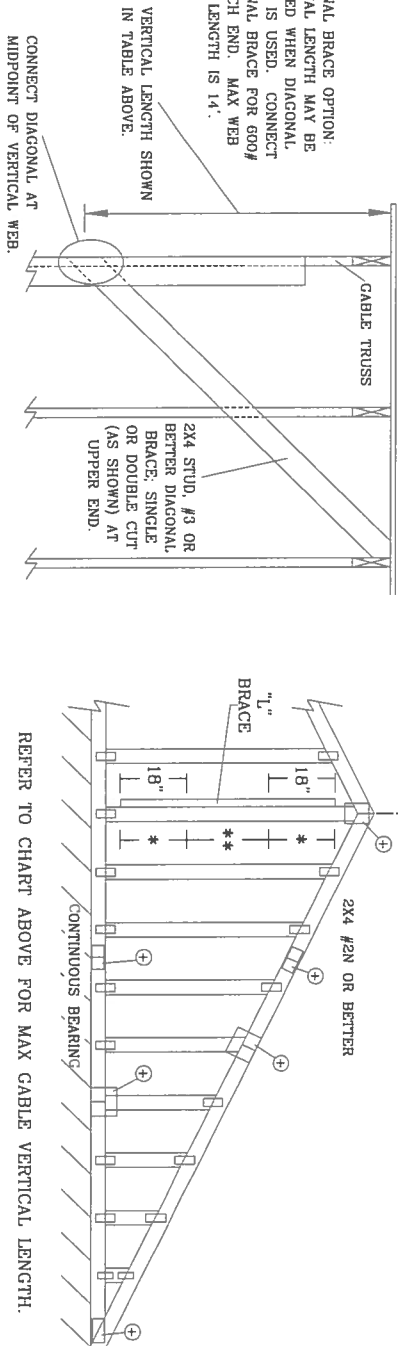
\* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.

\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C.  
IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

7. 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.

DIAGONAL BRACE OPTION:  
VERTICAL LENGTH MAY BE  
DOUBLED WHEN DIAGONAL  
BRACE IS USED. CONNECT  
DIAGONAL BRACE FOR 600#  
AT EACH END. MAX WEB  
TOTAL LENGTH IS 14'.

VERTICAL LENGTH SHOWN  
IN TABLE ABOVE.

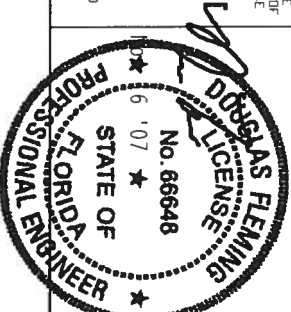
CONNECT DIAGONAL AT  
MIDPOINT OF VERTICAL WEB.

# 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 PLATE MANUFACTURER, 218 NORTH LE STR., SUITE 210, ALEXANDRIA, VA 22319 AND VITA CADDED TRUSS COUNCIL, D IBERICIA, 6300 ENTERPRISE LN, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THE STEEL CONNECTIONS. BULLETS INDICATED THAT CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOLTED CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BEG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUS IN CONFORMANCE WITH THE REQUIRED FABRICATING, HANDLING, SHIPPING, INSTALLING, SPECIFIC BY AREA AND TYPICAL DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NATIONAL DESIGN SPEC. BY AREA AND TYPICAL. BEG CONNECTOR PLATES ARE MADE OF 20/219/60SS AND ASTM A633 GRADE 40/60 (K/HS) DESIGN. PROTECT PERMITS TO EACH FACE OF SURFACES AND UNLESS OTHERWISE LOCATED ON THIS DRAWING. AS 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 ANSI/TPI-1 SEC. 2.



BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR

#1 / #2

STANDARD

#3

STUD

HEM-FIR

#2

STUD

#3

STANDARD

DOUGLAS FIR-LARCH

#3

STUD

STANDARD

DOUGLAS FIR-LARCH

#1

#2

GROUP B:

HEM-FIR

#1 & BTR

#1

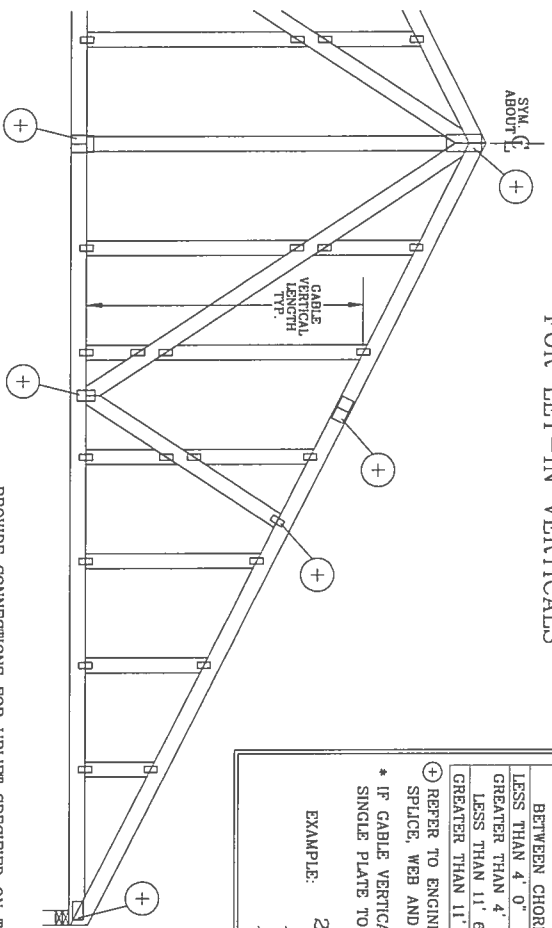
DOUGLAS FIR-LARCH

#1

#2

REF	ASCE7-02 GABI1015
DATE	2/23/07
DRWG	A1015EE0207
-ENG	
MAX. TOT. LD. 60 PSF	
MAX. SPACING 24.0"	

# GABLE DETAIL FOR LET-IN VERTICALS



CABLE 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	

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

EXAMPLE:

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

HAND DRIVEN NAILS:

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.

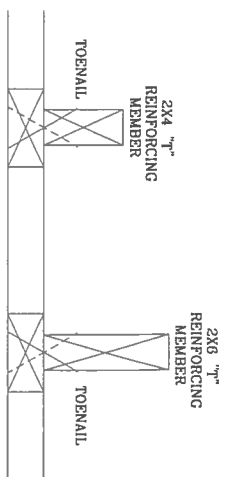
GUN DRIVEN NAILS:

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 GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

- ASCE 7-93 CABLE DETAIL DRAWINGS
- A11015EN0207, A10015EN0207, A09015EN0207, A08015EN0207, A07015EN0207, A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207
- ASCE 7-98 CABLE DETAIL DRAWINGS
- A13015EC0207, A12015EC0207, A11015EC0207, A08015EC0207, A13030EC0207, A12030EC0207, A11030EC0207, A08030EC0207
- ASCE 7-02 CABLE DETAIL DRAWINGS
- A13015EC0207, A12015EC0207, A11015EC0207, A08015EC0207, A13030EC0207, A12030EC0207, A11030EC0207, A08030EC0207
- ASCE 7-05 CABLE DETAIL DRAWINGS
- A13015EC0207, A12015EC0207, A11015EC0207, A08015EC0207, A13030EC0207, A12030EC0207, A11030EC0207, A08030EC0207
- SPE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876.719 & HC28294035



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

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

## WEB LENGTH INCREASE W/ "T" BRACE

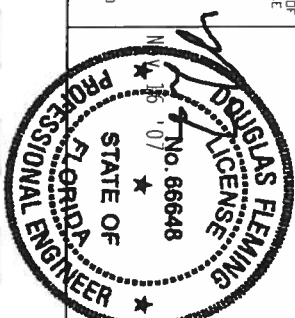
WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
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  
"L" BRACE INCREASE (FROM ABOVE) = 10% = 1.10  
(1) 2X4 "L" BRACE LENGTH = 6' 7"  
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH  
1.10 x 6' 7" = 7' 3"



ITW BUILDING COMPONENTS GROUP, INC.  
POMPAHO BEACH, FLORIDA



REF	LET-IN VERT
DATE	2/23/07
DRWG	GBLETTINO207
-ENG	DLI/KAR
MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"