

ITW Building Components Group, Inc.

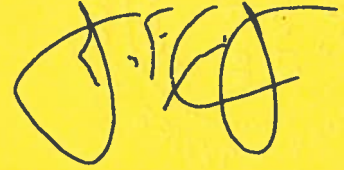
1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: ITBI8228Z0211132904

Truss Fabricator: Anderson Truss Company
Job Identification: 7-276--Freeman Design Group Brown -- , **
Truss Count: 22
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.36, 7.24, 7.35.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 32.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: A11030EE-GBLLETIN-BRCLBSUB-PIGBACKA-PIGBACKB-

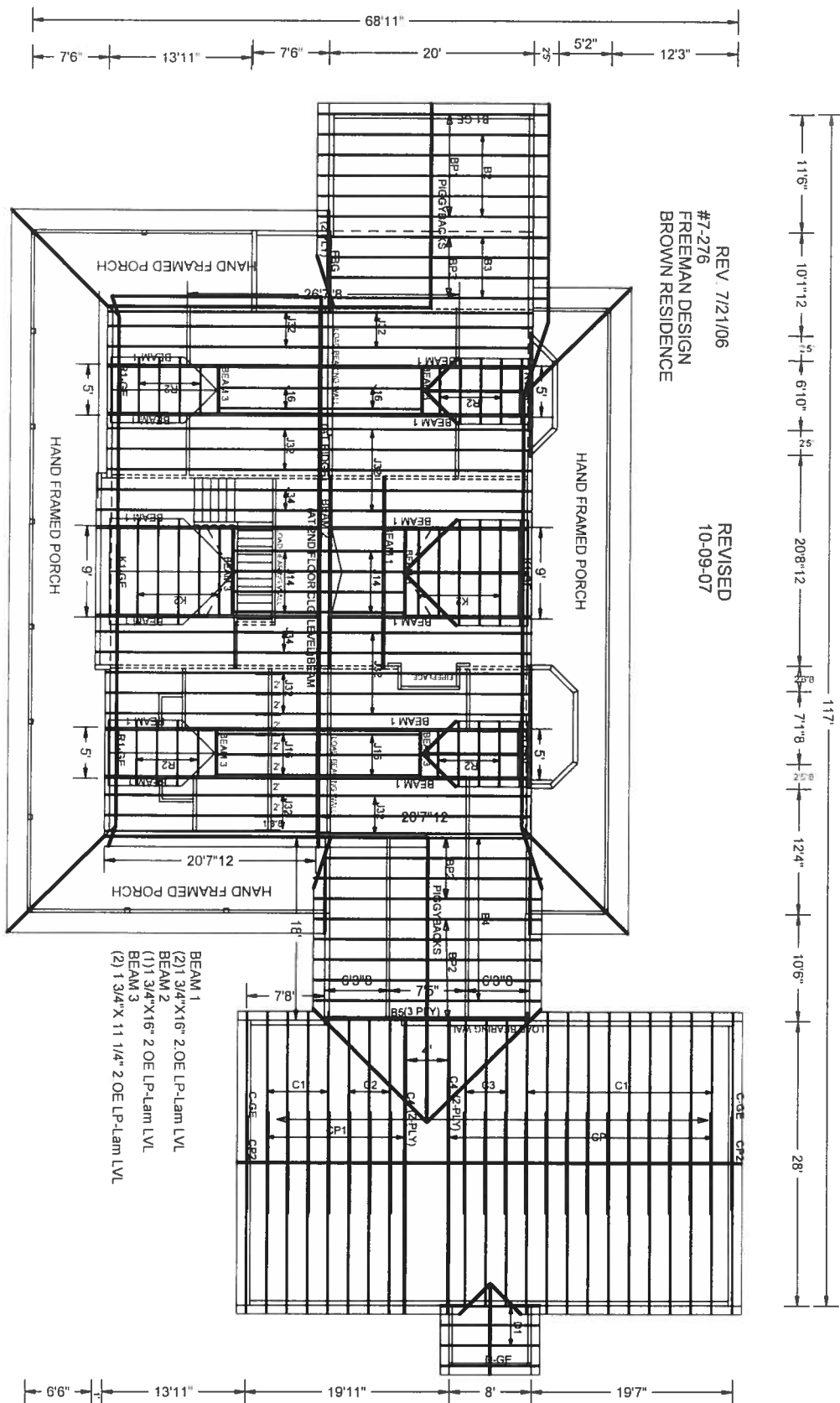


Seal Date: 10/11/2007

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	54437--B4		07284003	10/11/07
2	54438--B1-GE		07284003	10/11/07
3	54439--B3		07284013	10/11/07
4	54440--B2		07284014	10/11/07
5	54441--B5		07284004	10/11/07
6	54442--C-GE		07284008	10/11/07
7	54443--C4		07284010	10/11/07
8	54444--C1		07284011	10/11/07
9	54445--C3		07284012	10/11/07
10	54446--C2		07284015	10/11/07
11	54447--D-GE		07284006	10/11/07
12	54448--D1		07284007	10/11/07
13	54449--FBG		07284005	10/11/07
14	54450--K1-GE		07284001	10/11/07
15	54451--K2		07284002	10/11/07
16	54452--CP2		07284004	10/11/07
17	54453--CP1		07284009	10/11/07
18	54454--BP1		07284016	10/11/07
19	54455--BP2		07284017	10/11/07
20	54456--BP3		07284018	10/11/07
21	54457--R1-GE		07284019	10/11/07
22	54458--R2		07284020	10/11/07





JOB DESCRIPTION: Freeman Design Group
/: Brown

JOB NO:

7-276

PAGE NO

1 OF 1

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

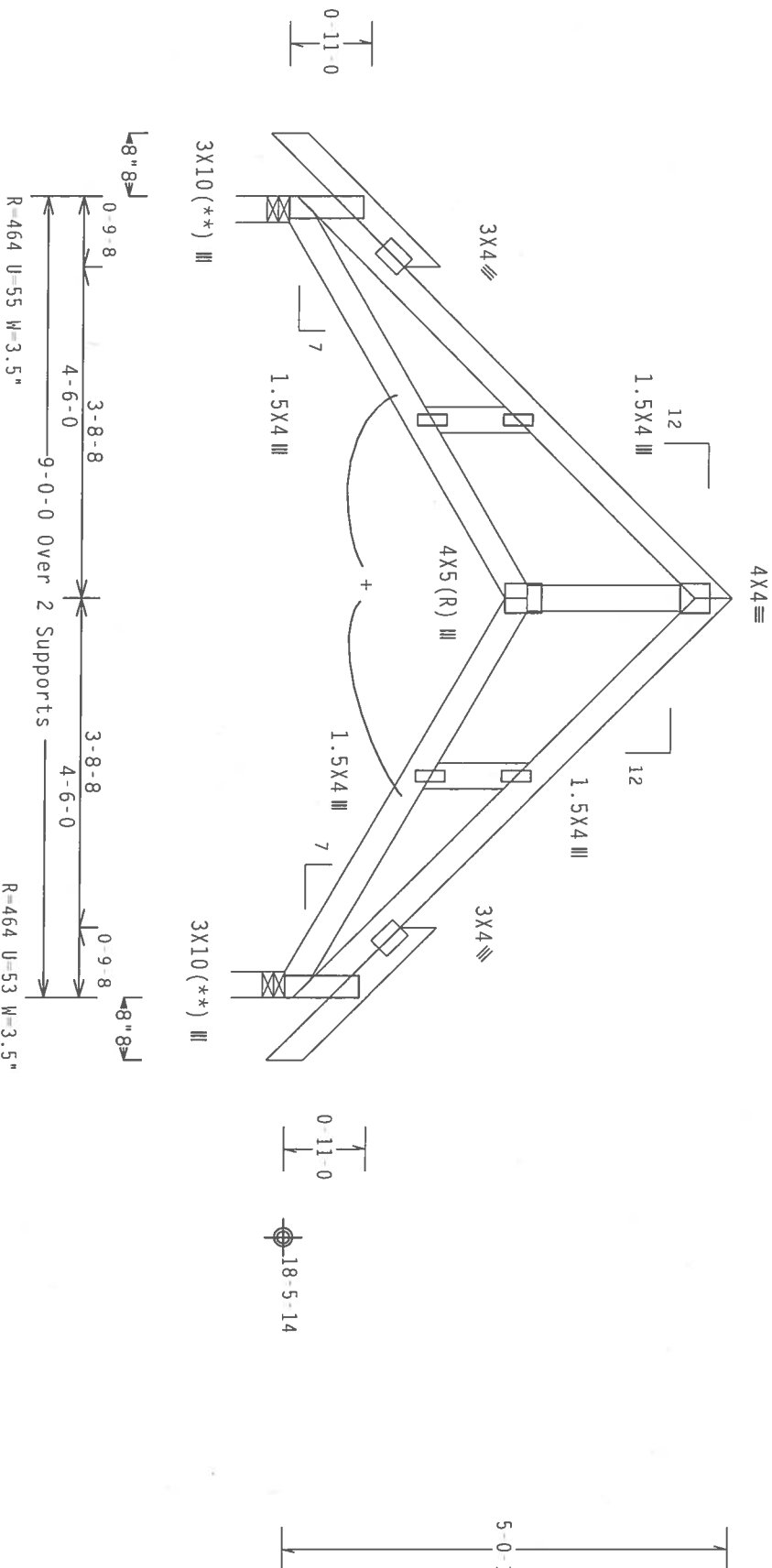
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

110 mph wind, 21.10 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC Df=5.0 psf, wind BC Df=5.0 psf. $I_w=1.00$ Gcpi(+/-)=0.18

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.

+ Member to be laterally braced for horizontal wind loads.
Bracing system to be designed and furnished by others.



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

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

7.35.0316

QTY: 2

FL/-/4/-/1/-/R/-/

Scale = .5"/Ft.

*"MAINTAINING" FRICES (REQUIREMENT EXERCISE CASE IN FABRICATION), MANHOLES, SHIPPING, INSTALLING AND DRIVING REFER TO BEST (BOLDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE STEEL INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC, 6000 TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MANSFIELD, OH 44719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED THE TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR IN ACC. THE EVAL. NOT

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE BRIS IN CONFORMANCE WITH

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. 17M BCG

CONNECTOR PLATES ARE MADE OF 20/10/16GA (M, H/55/K) ASTM A653 GRADE 40/60 (M, K/H, 55) GALV. STEEL. APPLY

PLATE 10 EACH END OF CROSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PLR DRAWINGS 160A 2
ANY INSPECTION OF PLATES FOLLOWED BY A CHECK BY A QUALIFIED PERSON TO BE MADE

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

DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING INDUSTRY AND NOT THE RESPONSIBILITY OF PROFESSIONAL ENGINEERING SOLELY FOR THE TRUSS COMPONENT.

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2

100

Professional Engineer Seal for the State of Florida, License No. 2212, signed by M. E. Collins.

2	FL/-/4/-/-/R/-	Scale = .5"/Ft.
TC LL	20.0 PSF	REF R8228 - 39595
TC DL	10.0 PSF	DATE 10/09/07
BC DL	10.0 PSF	DRW HCUR8228 07282070
BC LL	0.0 PSF	HC-ENG TCE/AP
TOT.LD.	40.0 PSF	SEON- 11095 REV
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1TB68228Z01

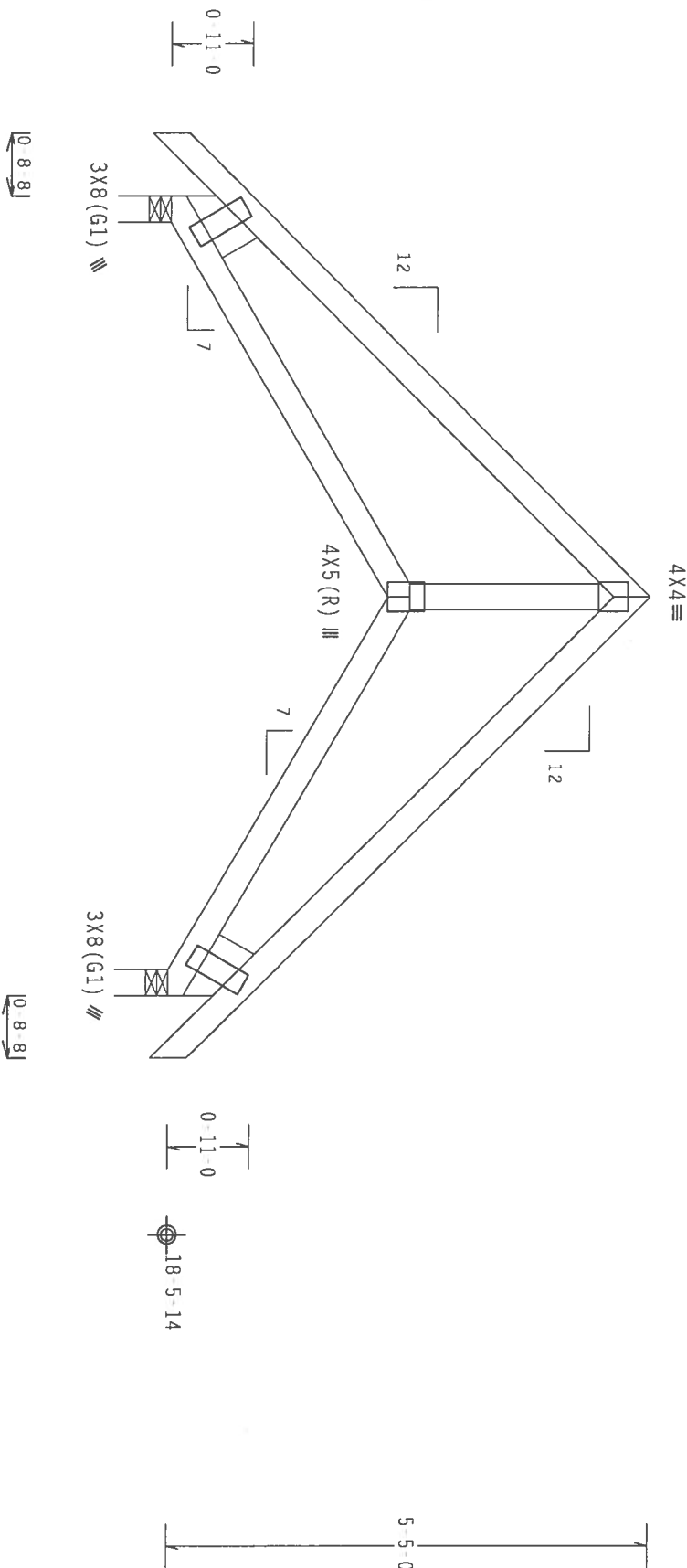
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Lt Studded Wedge 2x6 SP #2::Rt Studded Wedge 2x6 SP #2:

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

110 mph wind, 21.30 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/360 live and L/240 total load. Creep increase
factor for dead load is 1.50.



4'-6'-0" 9'-0'-0" Over 2 Supports 4'-6'-0"
R=464 U=180 W=3.5" R=464 U=180 W=3.5"

PLT TYP. Wave

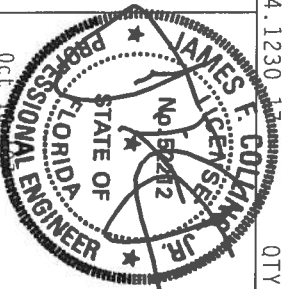
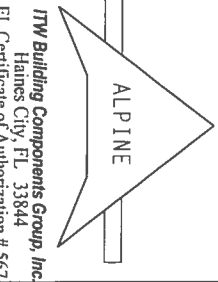
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

QTY:10 FL/-/4/-/-/R/-

Scale = .5"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO DESIGN (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE LANE, HANOVER, VA 22060) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI BCG, INC. SHALL NOT
BE RESPONSIBLE FOR ANY DAMAGE TO OR FAILURE OF THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH
TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. TPI BCG, INC. SHALL NOT BE RESPONSIBLE FOR
DESIGN CONFLICTS WITH APPLICABLE PROVISIONS OF ANY NATIONAL DESIGN SPEC. BY AREA AND TPI. TPI BCG
CONNECTION PLATES ARE MADE OF 20/18/16GA (4/1/55/47) ASH 663 GRADE 40/60 (4/1/55) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 150A-2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA AS OF TPI 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.



TC LL	20.0 PSF	REF R8228-39596
TC DL	10.0 PSF	DATE 10/09/07
BC DL	10.0 PSF	DRW HCUSR8228-07282071
BC LL	0.0 PSF	HC-ENG TCE/AP
TOT.LD.	40.0 PSF	SEQN-35851
DUR.FAC.	1.25	
SPACING	24.0"	JREF-1TBG8228201

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

End verticals exposed to wind pressure. Deflection meets $L/240$ criteria for brittle and flexible wall coverings.

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

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.



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

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

7.35.0316 101

QTY: 9

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

Scale = .25"/Ft.

WARNING: THESE RECORDS MAY BE SUBJECT TO THE FREEDOM OF INFORMATION ACT. HANDLING, SHIPPING, INSTALLING AND BRACING REFERRED TO MUST BE DONE IN ACCORDANCE WITH THE FOLLOWING INFORMATION. PUBLISHED BY THE TIRRELL PRACTICE INSTITUTE, 218 HORTON LANE, SUITE 312, ALEXANDRIA, VA, 22314 AND ALSO GOOD TRUSS COMPANY OF AMERICA, 6300 W. 13TH AVE., SUITE 100, DENVER, CO, 80202. FOR SAFETY PRACTICES AND PLEAS TO PREVENTING INJURY OF WORKERS, UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PARTS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

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

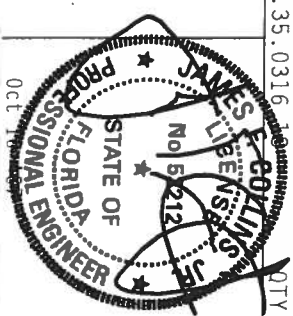
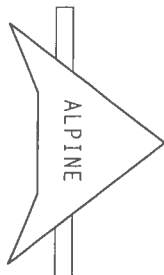
TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

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

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11 2002 SEC 3 A SEAL ON THIS

DESIGN SHOW. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 567



FL / 4 / - / R / -		Scale = .25" / Ft.
TC LL	20.0 PSF	REF R8228- 39597
TC DL	10.0 PSF	DATE 10 / 09 / 07
BC DL	10.0 PSF	DRW HCUR8228 07282072
BC LL	0.0 PSF	HC- ENG TCE / AP
TOT. LD.	40.0 PSF	SEON- 11099 REV
DUR. FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1TB88228201

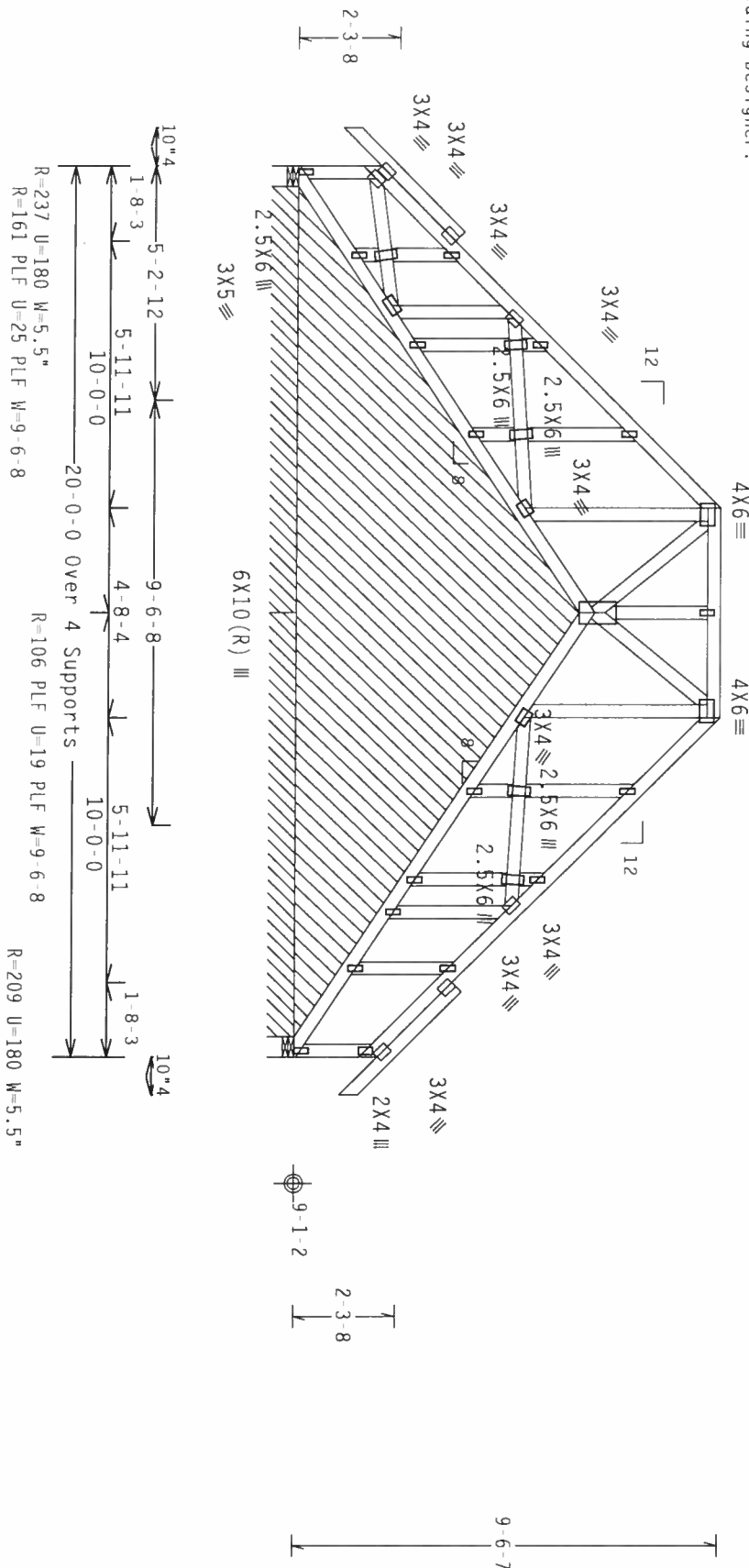
110 mph wind, 15.00 ft mean hgt. ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi (+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.

ase

ase



Design Crit: TPI-2002(STD)/FBC

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

QTY:1

Scale = .25" / Ft.



STATE OF

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August 1970

TC LL	20.0 PSF	REF	R8228 - 39598
TC DL	10.0 PSF	DATE	10/09/07
BC DL	10.0 PSF	DRW	HCUSR8228 07282073
BC LL	0.0 PSF	HC-ENG	TCE/AP
TOT.LD.	40.0 PSF	SEQN-	117614 REV
DUR.FAC.	1.25	FROM	JP
SPACING	SEE ABOVE	JREF-	1TBG8228201

110 mph wind, 22.68 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=1.2 psf. $I_w=1.00$ GCPI (+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWGS A11030EE0207 & GBLETTIN0207 for more requirements.

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

Refer to Dwg PIGBACKA0207 or PIGBACKB0207 for piggyback details. Portion of truss under piggyback is to be braced @ 24" oc unless otherwise specified.

braced @ 24" oc unless otherwise specified.



4-5-5

R=12 U=13 W=4.95"

Design Crit: TPI-2002(STD)/FBC

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

QY:2 FL/-/4/-/-/R/-

Scale = .5"/Ft.

JAMES T. COLLINS
LICENSE
MS. BOOKS
JAN 1971

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

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

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIAA) AND IBC. ITM BOARDS TO EACH FACE OF JOINTS AND CONNECTIONS SHALL BE 20/18/16GA (W, H, S) (K) ASTM A653 GRADE 40/60 (W, K/H, S) GALV. STEEL. APPLY

PLATES TO EACH OF THE CROSS AND, ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN OF TP11 2002 SEC.3, DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY CODE FOR THE THREE REPRESENTATIVE PLATES. A SEAL ON THIS

DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/CP1 1 SEC. 2.

Journal of Management Inquiry 22(4)

001 10-07

SPACING SEE ABOVE

JREF - 1TB68228Z01

1

Top Chord 2x4 SP #2 Dense
Bot Chord 2x6 SP #2
Webs 2x4 SP #3 :W2, W4 2x4 SP #2 Dense:

SPECIAL LOADS
(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC From 60 PLF at 0.00 to 60 PLF at 7.96
BC From 20 PLF at 0.00 to 20 PLF at 7.96
BC 1569 LB Conc. Load at 0.56, 2.56, 4.56, 6.56

Wind reactions based on MMFRS pressures.

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

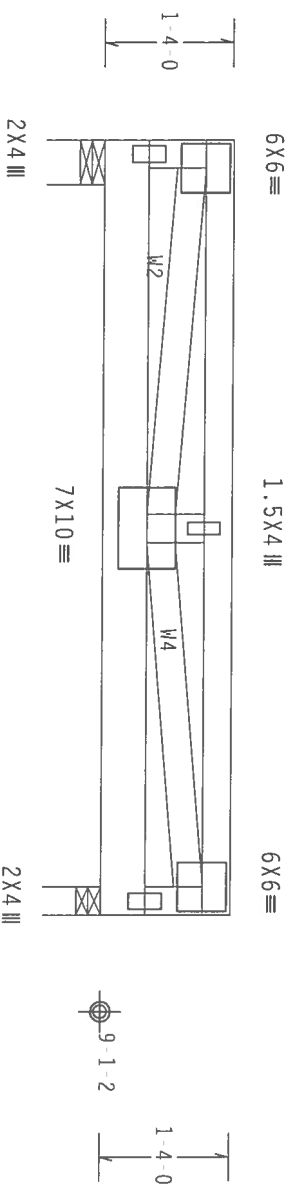
Truss must be installed as shown with top chord up.

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Box or Gun (0.128"x3.25", min.) nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 2 Rows @ 4.00" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

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. $iw=1.00 G C p i (+/-) = -0.18$

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



7-11-8 Over 2 Supports
R=3785 U=407 W=5.5"
R=3128 U=337 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

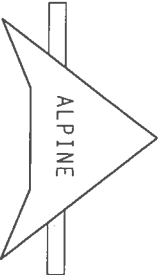
7.35, 0.316

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

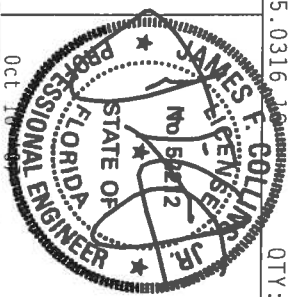
Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCSI (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 FORTHERN LANE, HOUSTON, TX 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 FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TPI, OR FABRICATING HANDLING, SHIPPING AND BRACING INSTRUCTIONS. BY AREA AND TPI. THE BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W4/IS/PS) ASTM A653 GRADE 40/60 (W, K/1/53) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMHX AS OF TPI-2002 SEC.3.3. 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 AMST/TPI 1 SEC. 2.



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 667



TC LL	20.0 PSF	REF R8228- 39600
TC DL	10.0 PSF	DATE 10/09/07
BC DL	10.0 PSF	DRW HCUSR8228 07282076
BC LL	0.0 PSF	HC-ENG TCE/AP
TOT.LD.	40.0 PSF	SEON- 11105 REV
DUR.FAC.	1.25	FROM JP
SPACING	SEE ABOVE	UREF- 1TBG8228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
Stack Chord SC1 2x4 SP #2 Dense:
Stack Chord SC2 2x4 SP #2 Dense:

Truss spaced at 24.0" OC designed to support 1-6-0 top chord
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord
must not be cut or notched.

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

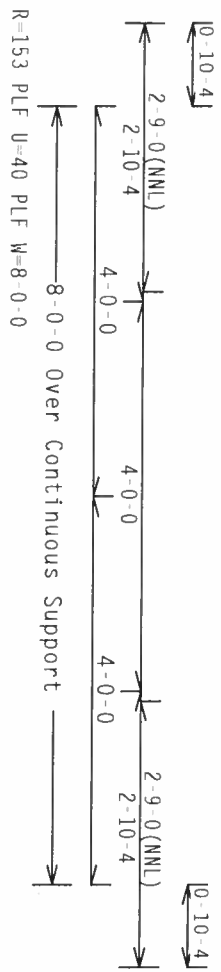
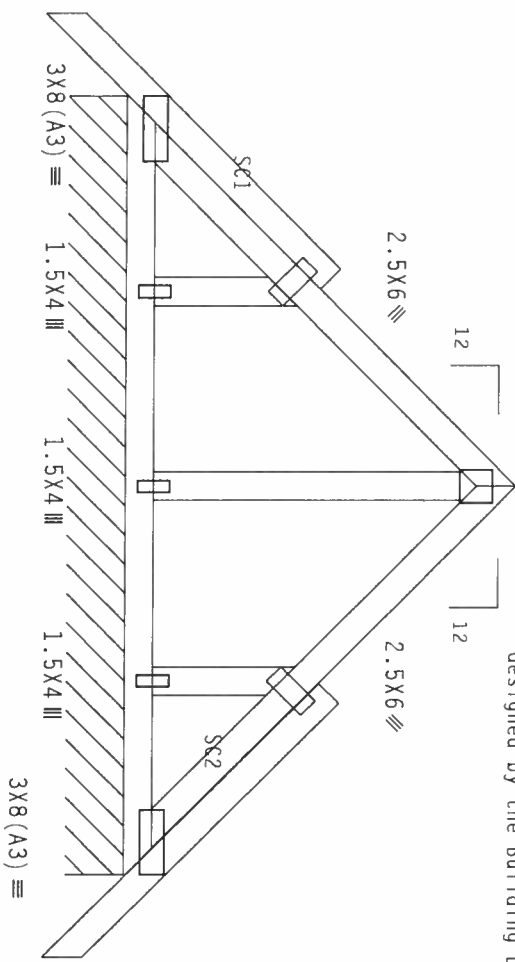
Deflection meets L/360 live and L/240 total load. Creep increase
factor for dead load is 1.50.

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.

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

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



PLT TYP. Wave

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

7.24.1230

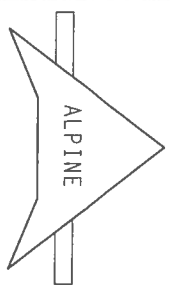
QTY:1

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

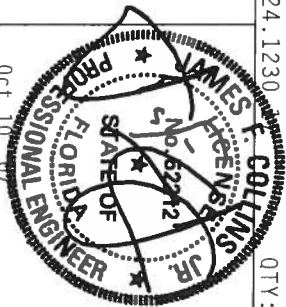
Scale =.5"/Ft.

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

****IMPORTANT**** TURN IN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT
BE RESPONSIBLE FOR ANY DAMAGE TO THIS DESIGN. ANY ALTERATION TO BUILD THE TRUSS IN CONFORMANCE WITH
THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. THE BCG
CONNECTION PLATES ARE MADE OF 20/10/16GA (U-H/SS/2X) 45TH AGS GRAD 40/60 (U, K/H/SS) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES THE SIGNATURE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567



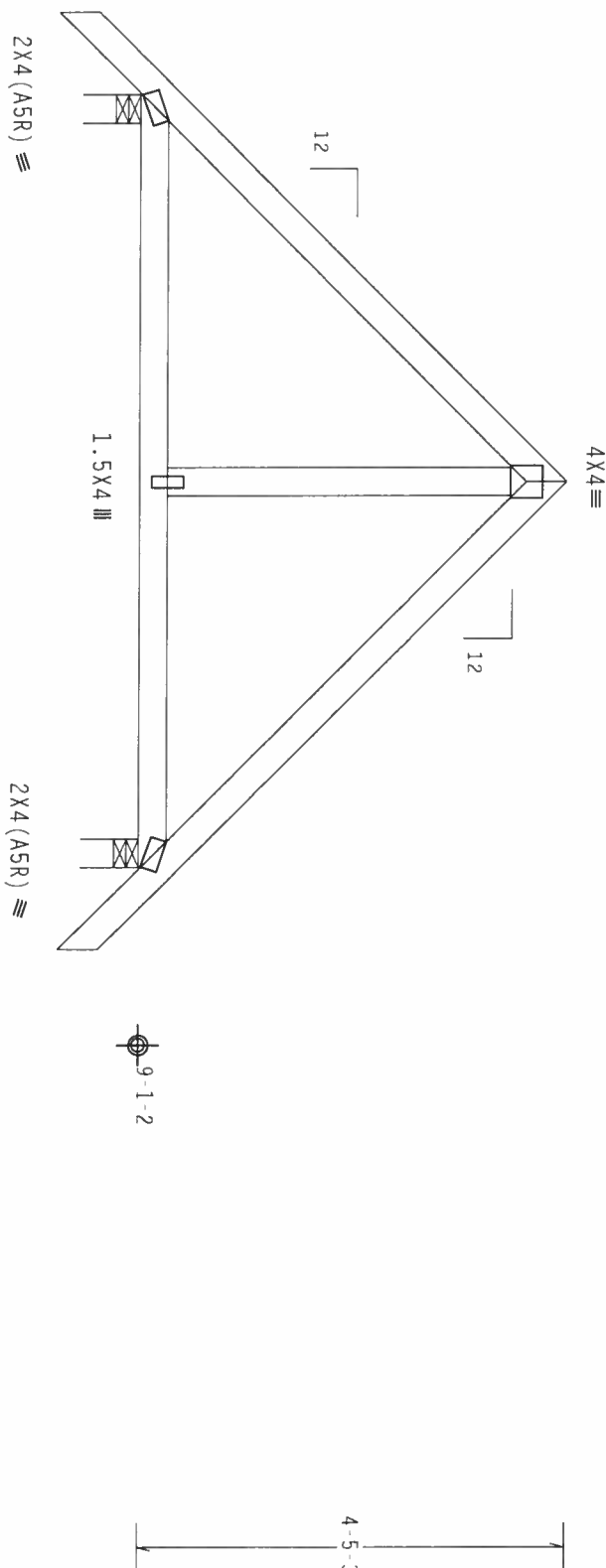
TC LL	20.0 PSF	REF R8228- 39601
TC DL	10.0 PSF	DATE 10/10/07
BC DL	10.0 PSF	DRW HCUR8228 07283001
BC LL	0.0 PSF	HC-ENG TCE/AP *
TOT. LD.	40.0 PSF	SEON- 167057
DUR. FAC.	1.25	FROM JP
SPACING	SEE ABOVE	JREF- 1TBG8228Z01

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART_ENC. bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCp(+/-)=0.55

Wind reactions based on MWFRS pressures.

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

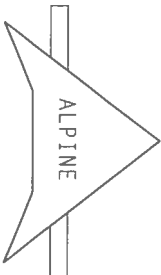
 $C_q/RT=1.00(1.25)/10(0)$

7.24.1230

QTY:3

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

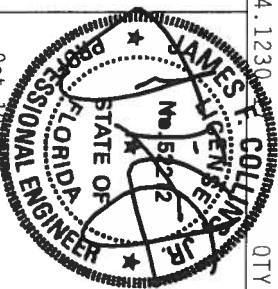
Scale = .5" / Ft.



ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 567

WARNING FRAMES REINFORCED EARTH CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO RES1 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY ISI (FLOOR PLATE INSTITUTE), 218 NORTH 1ST STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NICK (NORTH BRASS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, FALLS CHURCH, VA, 22034) FOR SAFETY PRACTICES PRIOR TO REINFORCING THESE FRAMES. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED CEILING.

* * * IMPORTANT * * * A COPY OF THIS DESIGN TO BE: INSTALLATION CONFORMANCE, THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BACKING OF TRUSSES, INSIST ON COORDINATING WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC., BY AREA) AND TPI, CONNECTION PLATES ARE MADE OF 20/10/1656A (W-15/5/5/5) ASTM A653 GRADE 40/60 (W-1/2/1/35) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRINKINGS TONG & AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEXA A3 OF TPII 2002 SEC.3.- A SEAL ON THIS



TC LL	20.0 PSF	REF	R8228- 39602
TC DL	10.0 PSF	DATE	10/09/07
BC DL	10.0 PSF	DRW	HCUSR8228 07282081
BC LL	0.0 PSF	HC-ENG	TCE/AP *
TOT.LD.	40.0 PSF	SEQN-	167053
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1TBG8228Z01

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

Truss spaced at 24.0" OC designed to support 1-6-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

110 mph wind, 15.46 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC $I_w=1.00$ GCF (+/-)=0.18

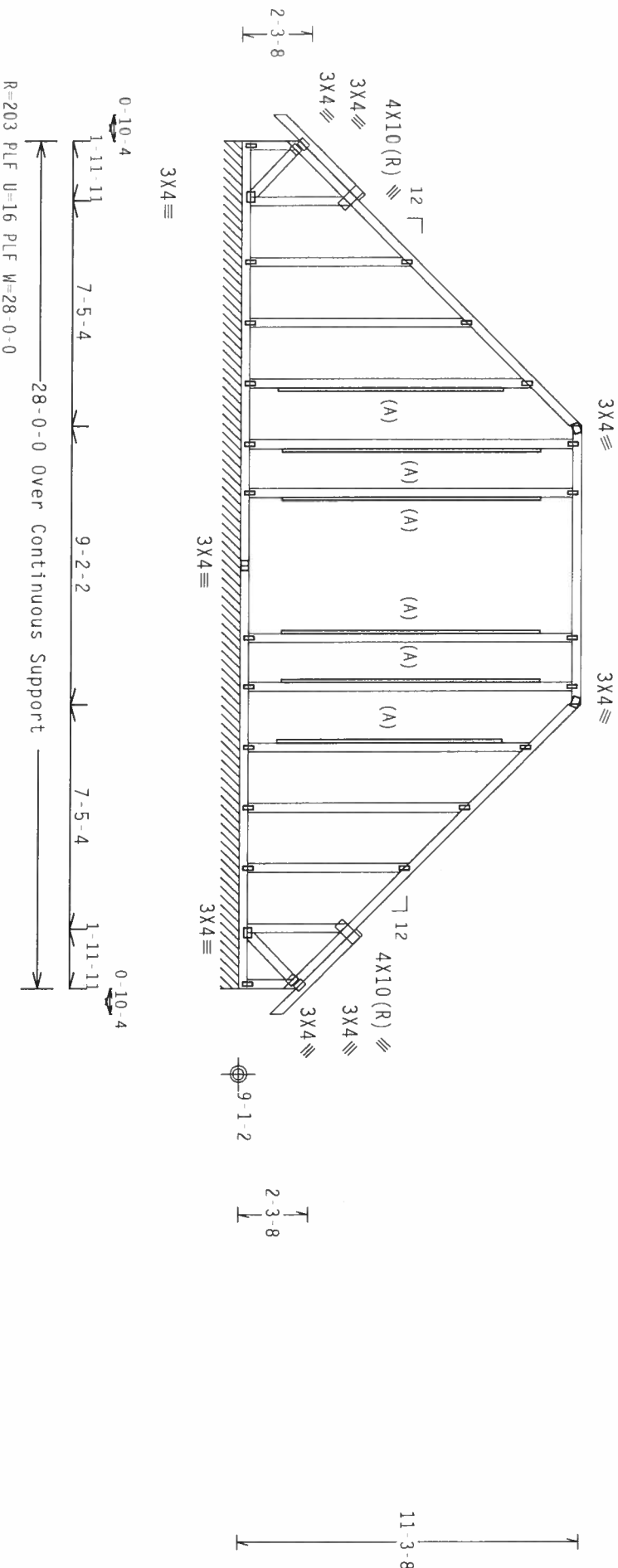
Wind reactions based on MWFRS pressures.

See DWGS A11030EE0207 & GBULLETIN0207 for more requirements.

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

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

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave

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

7.24.1230.17

QTY:2 FL/-/4/-/-/R/-

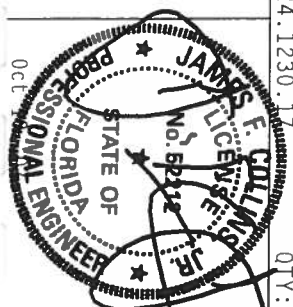
Scale = .1875"/Ft.

WARNING PRIORS REQUIRED EXPERIENCE CARE IN FABRICATION, HANDING, SHUDDING, INSTALLING AND DRAGGING, RETIE TO DECK. (SHOULD COME WITH COMPONENT SAFETY INFORMATION). PUBLISHED BY THE (FIBERS PLASTIC INSTITUTE, 2100 NORTH 1ST STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICKS COMPANY OF AMERICA, 6300 W. ENTERPRISE LANE, SUITE 111, SALT LAKE CITY, UT 84119 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE PROCEDURES. QUESTIONS IDENTIFIED INDICATED FOR CHORD SHALL HAVE PREVIOUSLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PREVIOUSLY ATTACHED SIDING CEILING.

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

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567



FL/4/-/-R/-		Scale = .1875"/Ft.
TC LL	20.0 PSF	REF R8228- 39603
TC DL	10.0 PSF	DATE 10/10/07
BC DL	10.0 PSF	DRW HCUH8228 07283002
BC LL	0.0 PSF	HC-ENG TCE/AP
TOT.LD.	40.0 PSF	SEQN- 167135 REV
DUR.FAC.	1.25	FROM JP
SPACING	SEE ABOVE	UREF- 1TBG8228Z01

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

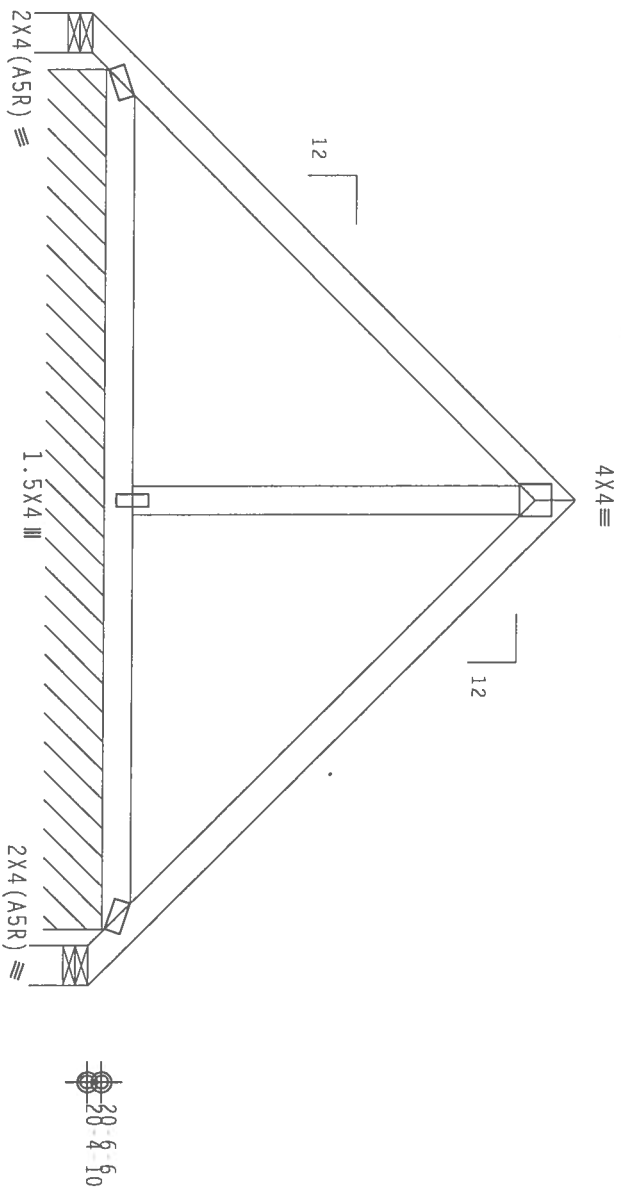
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACK0207 or PIGBACKB0207 for piggyback details. Portion of truss under piggyback is to be braced @ 24" oc unless otherwise specified.

110 mph wind, 22.89 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=1.2 psf. $I_w=1.00$ GCPI (+/-) = 0.18

Wind reactions based on MMFRS pressures.

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



4-5-1
4-5-1
10'-0-0 Over 3 Supports
R= 116 U-227 W 4.95"
R= 105 PLF U-52 PLF W=8-10-2
R= 116 U-180 W 4.95"

PLT TYP. Wave

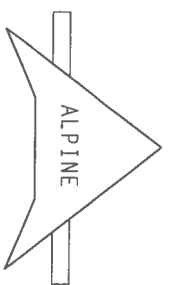
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

QTY: 22 FL/-/4/-/1-/R/-

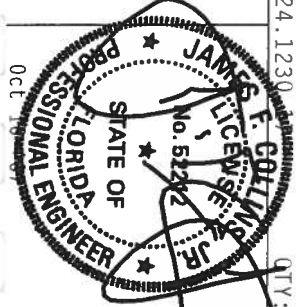
Scale = .5"/Ft.

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

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



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 567

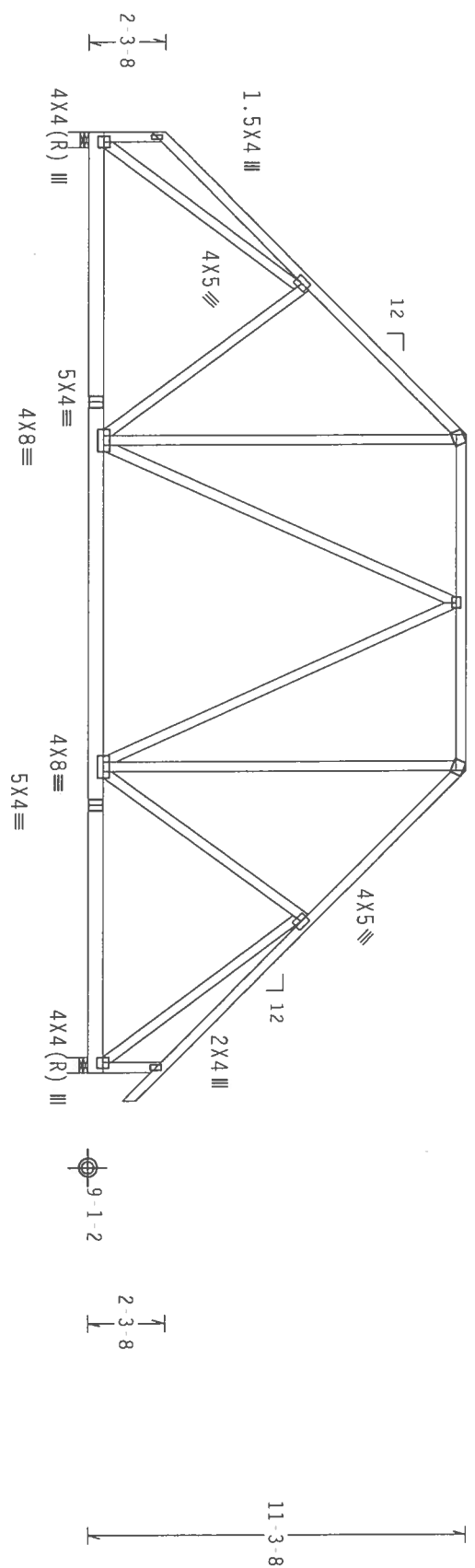


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TC DL	10.0 PSF	DATE 10/10/07
BC DL	2.0 PSF	DRW HCUR8228 07283003
BC LL	0.0 PSF	HC-ENG TCE/AP
TOT. LD.	32.0 PSF	SEQN- 167064
DUR. FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1TBG8228Z01

SPECIAL LOADS			
	(LUMBER	DUR.FAC.=1.25 /	PLATE DUR.FAC.=1.25)
TC - From	104 PLF at 0.00 to	104 PLF at 9.00	
TC - From	104 PLF at 9.00 to	104 PLF at 19.00	
TC - From	104 PLF at 19.00 to	104 PLF at 28.85	
BC - From	30 PLF at 0.00 to	30 PLF at 8.00	
BC - From	30 PLF at 8.00 to	30 PLF at 9.45	
BC - From	130 PLF at 9.45 to	130 PLF at 18.55	
BC - From	30 PLF at 18.55 to	30 PLF at 20.00	
BC - From	30 PLF at 20.00 to	30 PLF at 28.00	
BC - From	9 PLF at 28.00 to	9 PLF at 28.85	

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.

Truss to be spaced at 19" oc from one side and at 51.75" oc from opposite side.



2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Box or Gun (0.128"x3.25", min.) nails)

Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.

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

110 mph wind, 15.46 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. 1lw=1.00 GCpi(+/-)-0.18

Wind reactions based on MMFRS pressures.

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

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

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Box or Gun (0.128"x3.25",_min.)_nails)

	Row	@ 4" O.C.
Top chord:	1 Row	@12:00" O.C.
Bot Chord:	1 Row	@12:00" O.C.
Diaphragms:	1 Row	@ 4" O.C.

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

110 mph wind, 15.46 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 gcpi (+/-) =0.18

Wind reactions based on MWRFS pressures.

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

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

PLT TYP. Wave

****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, 218 NORTH LEE STREET, SUITE 317, ALEXANDRIA, VA, 22314) AND NFCA (NATIONAL TRUSS COUNCIL OF AMERICA, 6300

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

(0)	7.24.1230	17
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QTY:2 FL/-/4/-/-/R/-

Scale = .1875"/ft.

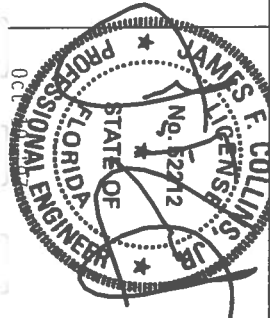
R=2333 U=266 W=5.5"

R=2432 U=277 W=5.5"

0-10-4

$$\frac{11}{38}$$


ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R8228- 39605
TC DL	10.0 PSF	DATE	10/10/07
BC DL	10.0 PSF	DRW	HCUSR8228 07283004
BC LL	0.0 PSF	HC-ENG	TCE/AP
TOT.LD.	40.0 PSF	SEQN-	167149
DUR.FAC.	1.25	FROM	JP
SPACING	SEE ABOVE	JREF-	1TBG8228Z01

110 mph wind, 15.46 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 MFRS pressures.

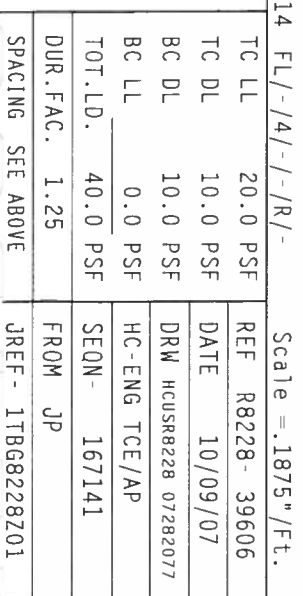
(A) Continuous lateral bracing equally spaced on member. In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC. Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Scale = .1875"/Ft.

SHALL HAVE
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JAMES F. COLLINS
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110 mph wind, 15.89 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

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

TC - From	68	PLF at	0.00	to	68	PLF at	9.00
TC - From	68	PLF at	9.00	to	68	PLF at	19.00
TC - From	68	PLF at	19.00	to	68	PLF at	28.00
BC - From	20	PLF at	0.00	to	20	PLF at	9.29
BC - From	120	PLF at	9.29	to	120	PLF at	18.55
BC - From	20	PLF at	18.55	to	20	PLF at	28.00

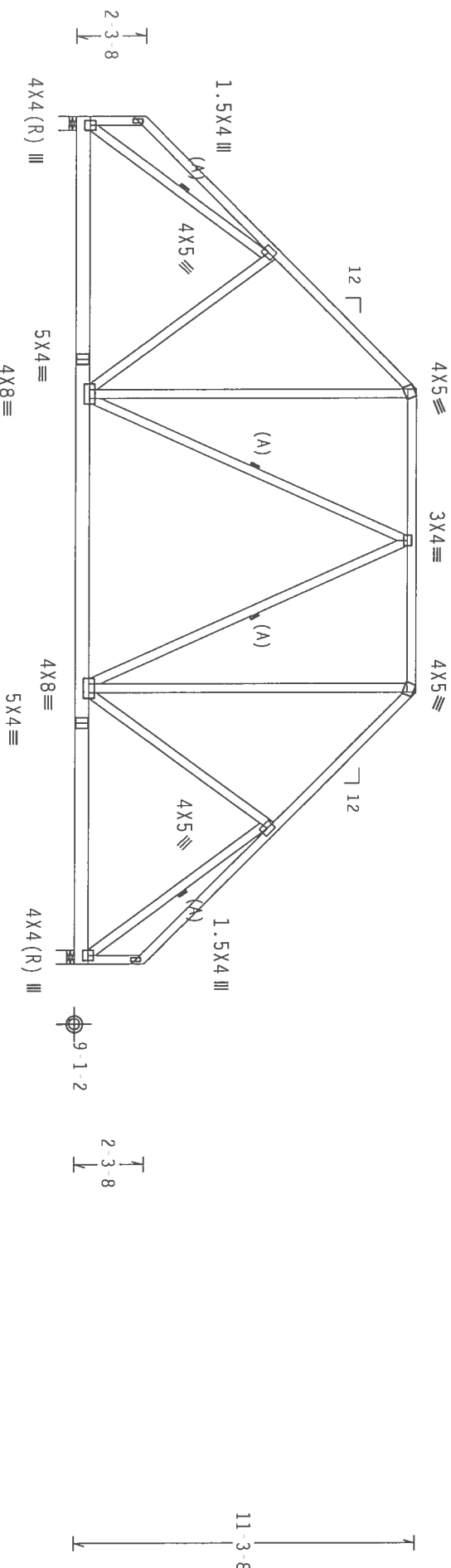
Wind reactions based on MWFRS pressures.

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

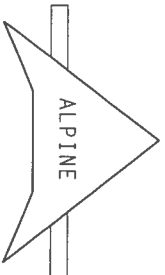
Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

QTY:3 FL/-/4/-/-/R/-

Scale = .1875"/Ft.



ITW Building Components Group, Inc.
Haines City, FL 33844
F1 Certificate of Authorization # 567

-WARNING- FRIGS. REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND MAINTAINING TO AVOID THE POSSIBILITY OF PERSONAL INJURY OR PROPERTY DAMAGE. (SEE THE FOLLOWING INFORMATION). PUBLISHED BY THE FRIGS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND HICK GOOD RIBBONS COMPANY OF AMERICA, 65000 INTERSTATE 44E, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO REFRIGERATING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL GORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

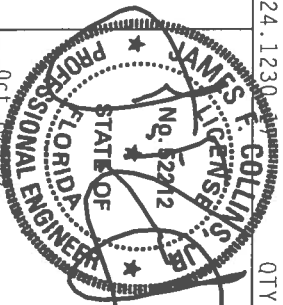
**** IMPORTANT ****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITH BCG, INC. SHALL NOT

IP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AIAA) AND IP1. ITH BCG

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERMITTED AT OF 1911-2002 SEC 3 A SEAL ON THIS

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Oct 10 1967

3	FL/-/4/-/-/R/-	Scale = .1875"/Ft.
TC LL	20.0 PSF	REF R8228 - 39607
TC DL	10.0 PSF	DATE 10/09/07
BC DL	10.0 PSF	DRW HCU8R8228 07282079
BC LL	0.0 PSF	HC-ENG TCE/AP
TOT.LD.	40.0 PSF	SEON - 167082
DUR.FAC.	1.25	FROM JP
SPACING	SEE ABOVE	JREF - 1TBG8228201

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

End verticals exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

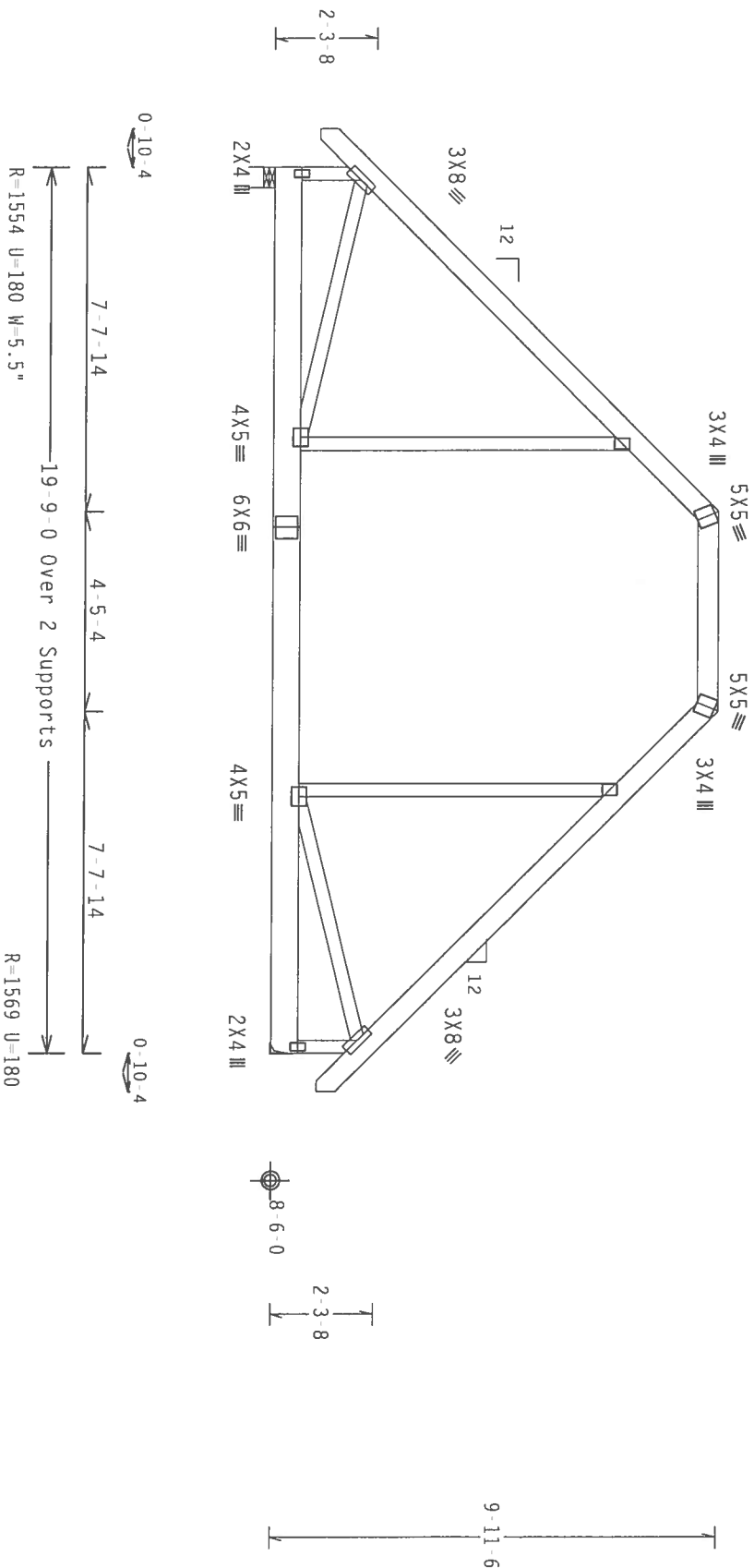
BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 6-3-0 to 13-8-0.

Wind reactions based on MWFRS pressures.

Calculated horizontal deflection is 0.08" due to live load and 0.20" due to dead load.

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

Deflection meets $L/360$ live and $L/240$ 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)

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

7.24.1230 € / 60112 Q

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

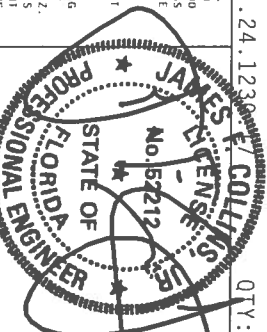
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ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 567

FI Certificate of Authorization # 567



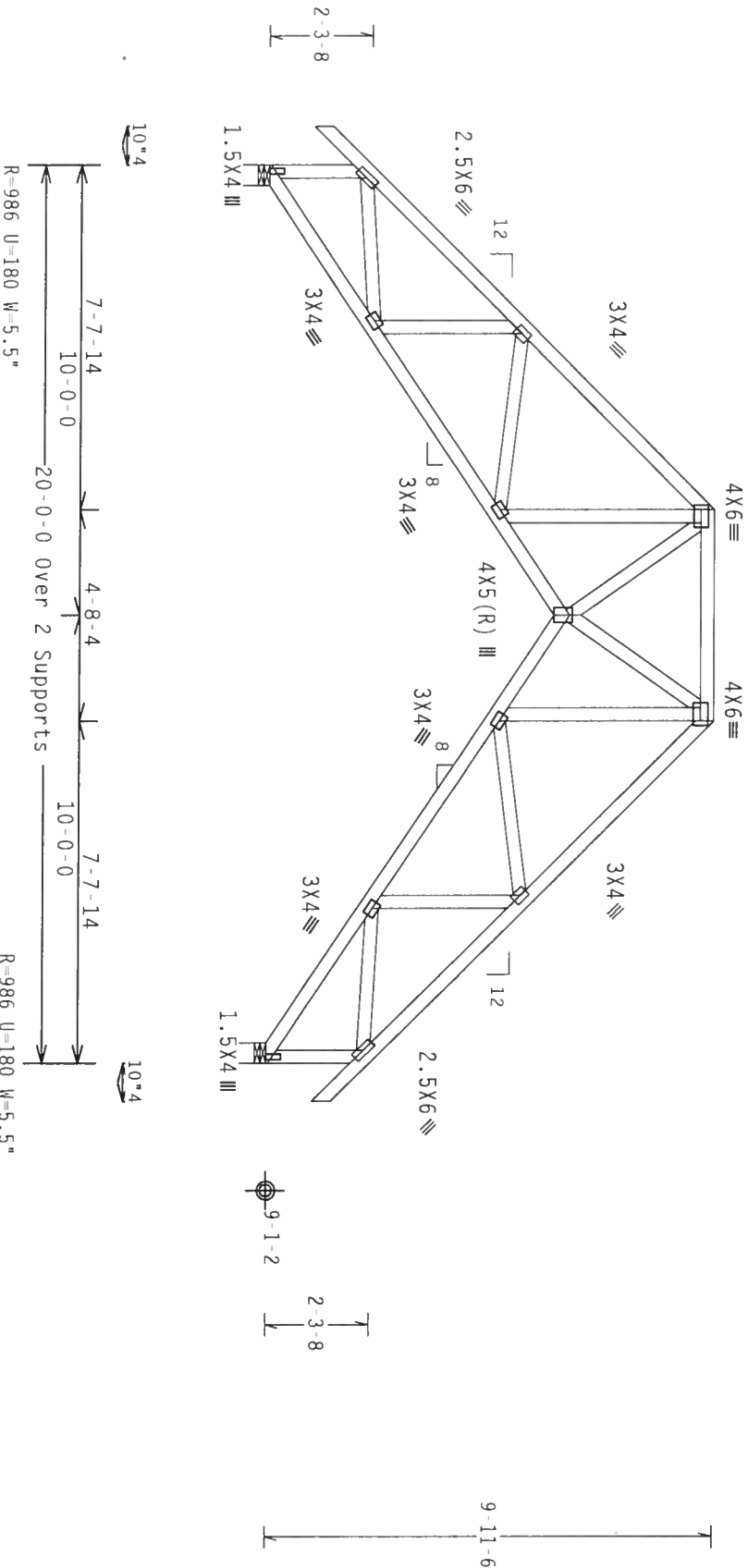
Oct 10 07

TC LL	20.0 PSF	REF	R8228- 39608
TC DL	10.0 PSF	DATE	10/09/07
BC DL	10.0 PSF	DRW	HCUSR8228 07282075
BC LL	0.0 PSF	HC-ENG	TCE/AP
TOT.LD.	40.0 PSF	SEQN-	117638
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1TBG8228Z01

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.

Wind reactions based on MIFRS pressures.

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



Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

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

Scale = .25"/Ft.

WARNING: BUILDERS OF RIGID CLIMATE CARE IN FABRICATION, HANDLING, LIFTING, INSTALLING AND DRIVING REFER TO BEST AVAILABLE CURRENT EVIDENCE ON SAFETY INFORMATION, FURNISHED BY THE CLIMATE CARE INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALPHARETTA, GA 30201, AND A/CRA (A/CRA) GROUP, TRUSS COMPANY OF AMERICA, 600 ENTERPRISE LANE, HUNTSVILLE, AL 35719, FOR SAFETY PRACTICES PRIOR TO PREPARING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CHORDING.

****IMPORTANT**** FURNISH A COPY OF THIS NOTICE TO THE REGISTRATION QUADRANT FOR EACH UNIT AND TO THE UNIT'S REGISTRATION AGENT.

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE A VIOLATION OF THE CONTRACT. 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 A VIOLATION OF THE CONTRACT.

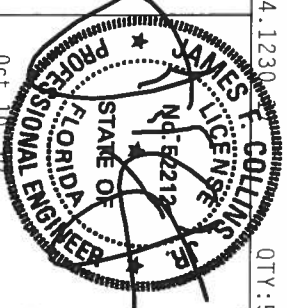
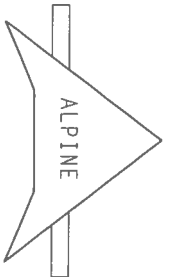
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AIAA) AND TPI. CONNECTOR PLATES ARE MADE OF 2017/17664 (A HSS/AL) ASTM A663 GRADE 40/60 (A 7075 T6 AL) EFFECTIVE

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERMITTED AS OF 10/11/2002 SEC 3

A SCALE OF THE
ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
DESIGN SHOWN

BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2

ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 567



FL/-/4/-/-R/-		Scale = .25"/ft.
TC LL	20.0 PSF	REF R8228- 39609
TC DL	10.0 PSF	DATE 10/09/07
BC DL	10.0 PSF	DRW HCUR8228 07282078
BC LL	0.0 PSF	HC-ENG TCE/AP
TOT.LD.	40.0 PSF	SEON- 117606
DUR.FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1TB68228701

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Left end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

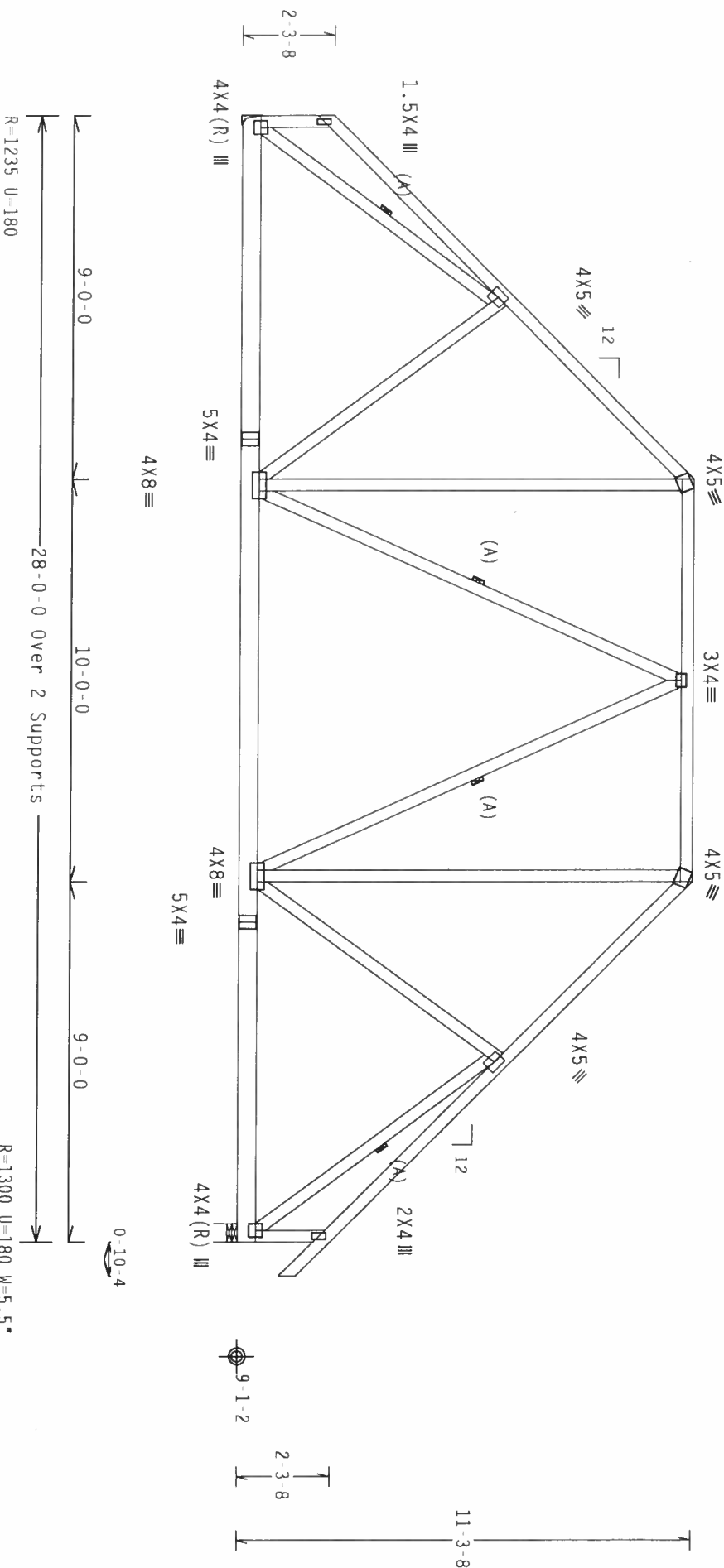
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

110 mph wind, 15.46 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 MWFRS pressures.

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

Deflection meets L/360 live and L/240 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)/10(0)

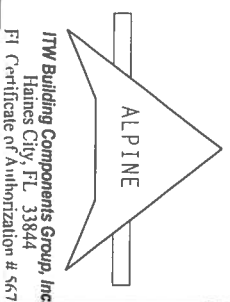
7.24.1230

QTY:3 FL/-/4/-/R/-

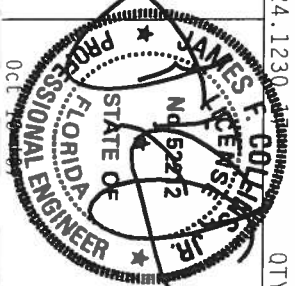
Scale = .25"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, 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, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, HADISON, NJ 07719) 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 THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. 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
FI Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R8228-39610
TC DL	10.0 PSF	DATE	10/09/07
BC DL	10.0 PSF	DRW	HCU8R8228 07282080
BC LL	0.0 PSF	HC-ENG	TCE/AP
TOT. LD.	40.0 PSF	SEQN-	167145
DUR. FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1TBG8228Z01

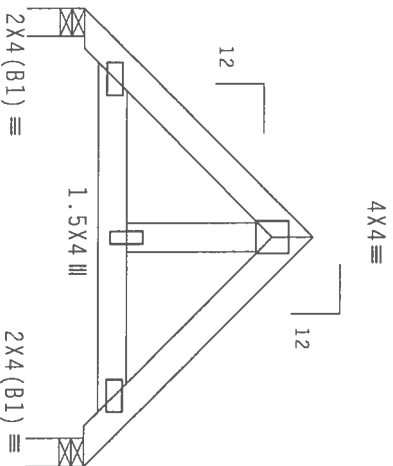
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. Portion of truss under piggyback is to be braced @ 24" oc unless otherwise specified.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP 8, wind TC D1=5.0 psf, wind BC D1=5.0 psf [w=1.00 Gobi(+/-)0.18

Wind reactions based on MIFRS pressures.

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.



9-1-2

2-2-6

Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

QTY:6 FL/-/4/-/-/R/-

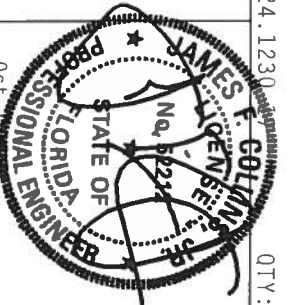
Scale = .5"/Ft.

WARNING: THE FOLLOWING EXTREME CARE IN FABRICATION, HANDLING, SUPPORTING, INSTALLING AND BRACING REFER TO BCS1 QUALIFYING COMPONENT SAFETY INFORMATION. THIS SHOULD BE THE RESPONSIBILITY OF THE INSTALLER. 218 NORTH LEE STREET, SUITE 312, AUSTIN, TEXAS 78701 AND APCA HOME TRUSS COMPANY ARE NOT RESPONSIBLE FOR ACTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CILLING.

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

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R8228- 39611
TC DL	10.0 PSF	DATE	10/10/07
BC DL	10.0 PSF	DRW	HCUSR8228 07283005
BC LL	0.0 PSF	HC-ENG	TCE/AP
TOT.LD.	40.0 PSF	SEQN-	167032
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1TBG8228Z01

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

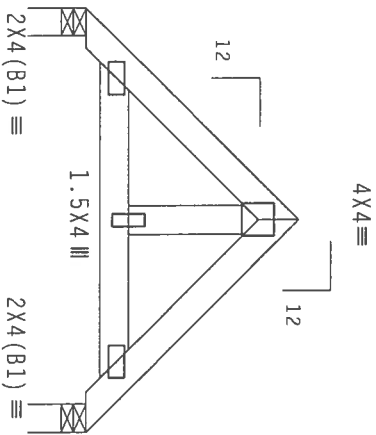
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details. Portion of truss under piggyback is to be braced @ 24" oc unless otherwise specified.

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 MWFRS pressures.

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.



9-1-2

2.06

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

QTY:10 FL/-/4/-/-/R/-

Scale = .5"/Ft.

***WARNING:** THESE REINFORCED CONCRETE CASES IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND OPERATING ARE TO BE USED AS A BUILDING COMPONENT SPECIALLY INFORMATION, PUBLISHED BY THE GIBBS PATENT INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND ALSO FROM TRUSS COMPANY OF AMERICA, 6100 ENTERPRISE LANE, HANSON, MI 48039 FOR ALL 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 FIELD CEILING.

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

ON FABRICATING, HANDLING, SHIPPING, INSTALLING & BACKING OF THOUSDS. THE BCR

DESIGN CONTRACTS WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY ATRAI) AND TPI. THE BCR

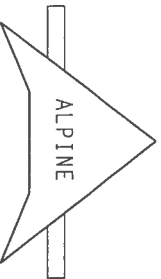
CONCRETE PLATES ARE MADE OF 20/10/16GA (4.5% G.S.) GRAD 40/60 (4.5% G.S.) GALV. STEEL. A

PLATES TO EACH FACE OF THOUS & THOUS (OTHERWISE LOCATED ON THIS DESIGN, POSITION PER THOUSDS. TOP 2

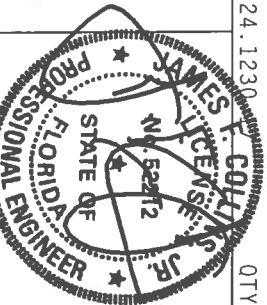
AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMER. AS OF TPI 2002 SEC. 2

DESIGN MODIFICATIONS, AND CANCELLED BY THE DESIGNER. THE DESIGNER SHALL BE RESPONSIBLE FOR THE

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.
Haines City, FL 33844
F1 Certificate of Authorization # 567



0 FL/-/4/-/R/-		Scale =.5"/ft.
TC LL	20.0 PSF	REF R8228- 39612
TC DL	10.0 PSF	DATE 10/10/07
BC DL	10.0 PSF	DRW HCUR8228 07283006
BC LL	0.0 PSF	HC-ENG TCE/AP
TOT.LD.	40.0 PSF	SEON- 167112
DUR.FAC.	1.25	FROM JP
SPACING	24.0"	JREF- 1TB68228Z01

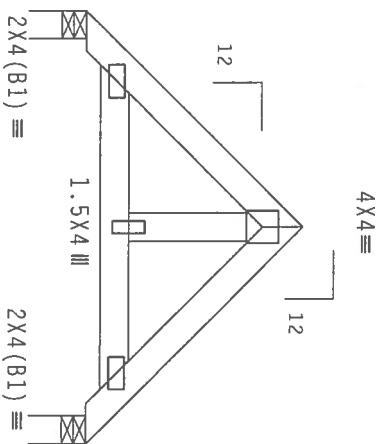
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

Refer to Dwg PIGBACKA0207 or PIGBACKB0207 for piggyback details. Portion of truss under piggyback is to be braced @ 24" oc unless otherwise specified.

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 MWFRS pressures.

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.



9-1-2

2-0-14

Diagram illustrating the layout of a 4-5-4 Over 2 Supports beam. The beam is divided into three equal segments of 17'-15" each, with a total length of 53'-0". The segments are labeled "17'-15\"", "17'-15\"", and "17'-15\"" from left to right. The supports are labeled "4-5-4 Over 2 Supports".

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

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

Scale = .5"/Ft.

*****WARNING***** (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY IPI (TRUSS PATING INSTITUTE, 218 NORTH LANE STREET, SUITE 312, ALXAMRIA, VA, 22134) 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.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITR BCC. ITR SHALL NOT

IP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTION PLATES ARE MADE OF 20/18/16NiA (H, H/35/K) ASIN AB53 GRADL 40/60 (H, K/H, 55) GALV, SIEEL, APPLY

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. ONLY FOR THE TRUST COMPONENT

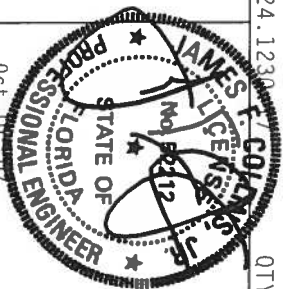
BUILDING DESIGNER PER ANSI/APA 1 SEC. 2

ALPINE

ITW Building Components Group, Inc.

FALMOUTH CITY, FL 38604

F-1 (Folicale di Ammortalizzazione # 767)



Oct 10 07

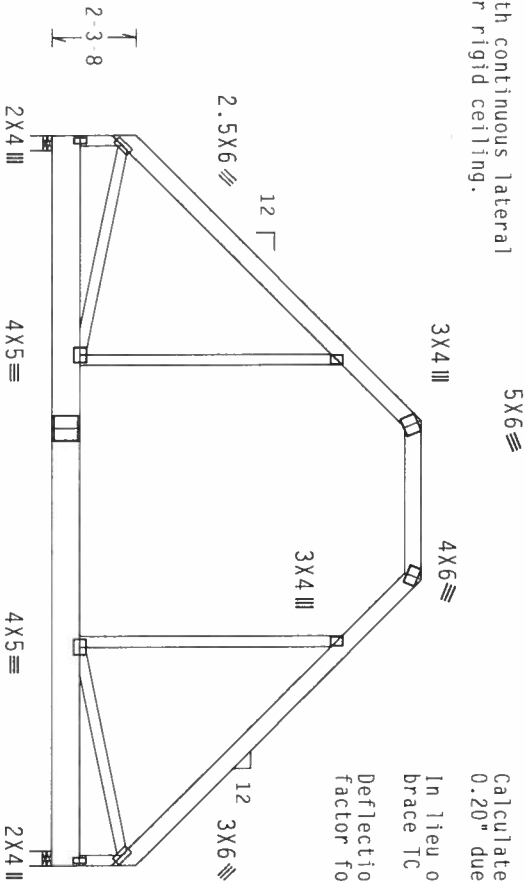
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TC DL	10.0 PSF	DATE	10/10/07
BC DL	10.0 PSF	DRW	HCUSR8228 07283007
BC LL	0.0 PSF	HC-ENG	TCE/AP
TOT.LD.	40.0 PSF	SEQN-	117645
DUR.FAC.	1.25	FROM	JP
SPACING	24.0"	JREF-	1TBG8228Z01

Top chord 2x6 SP #1 Dense
Bot chord 2x10 SP SS
Webs 2x4 SP #3

SPECIAL LOADS

TC - From	68 PLF at -0.04 to 68 PLF at 6.25
TC - From	97 PLF at 6.25 to 97 PLF at 7.97
TC - From	97 PLF at 7.97 to 97 PLF at 12.14
TC - From	97 PLF at 12.14 to 97 PLF at 13.67
TC - From	68 PLF at 13.67 to 68 PLF at 19.96
BC - From	20 PLF at -0.04 to 20 PLF at 6.25
BC - From	120 PLF at 6.25 to 120 PLF at 13.67
BC - From	20 PLF at 13.67 to 20 PLF at 19.96
BC - 143 LB Conc. Load at 6.25	
BC - 1378 LB Conc. Load at 13.60	
BC - 1235 LB Conc. Load at 15.60, 17.60	

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



3 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Box or Gun (0.128"x3.25", min.) nails)
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 3.00" o.c.
Webs: 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.30 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{cpl}(+/-)=0.18$

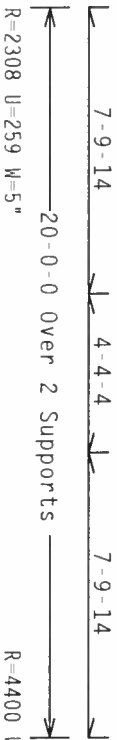
Wind reactions based on MMFRS pressures.

End verticals exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

Calculated horizontal deflection is 0.13" due to live load and 0.20" due to dead load.

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

Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

Scale = .1875"/ft.

****WARNING**** TRUSSES REQUIRING EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO NCES (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, HANOVER, NH 03719) 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 TRUSSES IN CONFORMANCE WITH THE FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, BY APPROX AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 20/24/26/28/30/32/34/36/38/40/42/44/46/48/50/52/54/56/58/60/62/64/66/68/70/72/74/76/78/80/82/84/86/88/90/92/94/96/98/100/102/104/106/108/110/112/114/116/118/120/122/124/126/128/130/132/134/136/138/140/142/144/146/148/150/152/154/156/158/160/162/164/166/168/170/172/174/176/178/180/182/184/186/188/190/192/194/196/198/200/202/204/206/208/210/212/214/216/218/220/222/224/226/228/230/232/234/236/238/240/242/244/246/248/250/252/254/256/258/260/262/264/266/268/270/272/274/276/278/280/282/284/286/288/290/292/294/296/298/300/302/304/306/308/310/312/314/316/318/320/322/324/326/328/330/332/334/336/338/340/342/344/346/348/350/352/354/356/358/360/362/364/366/368/370/372/374/376/378/380/382/384/386/388/390/392/394/396/398/400/402/404/406/408/410/412/414/416/418/420/422/424/426/428/430/432/434/436/438/440/442/444/446/448/450/452/454/456/458/460/462/464/466/468/470/472/474/476/478/480/482/484/486/488/490/492/494/496/498/500/502/504/506/508/510/512/514/516/518/520/522/524/526/528/530/532/534/536/538/540/542/544/546/548/550/552/554/556/558/560/562/564/566/568/570/572/574/576/578/580/582/584/586/588/590/592/594/596/598/600/602/604/606/608/610/612/614/616/618/620/622/624/626/628/630/632/634/636/638/640/642/644/646/648/650/652/654/656/658/660/662/664/666/668/670/672/674/676/678/680/682/684/686/688/690/692/694/696/698/700/702/704/706/708/710/712/714/716/718/720/722/724/726/728/730/732/734/736/738/740/742/744/746/748/750/752/754/756/758/760/762/764/766/768/770/772/774/776/778/780/782/784/786/788/790/792/794/796/798/800/802/804/806/808/810/812/814/816/818/820/822/824/826/828/830/832/834/836/838/840/842/844/846/848/850/852/854/856/858/860/862/864/866/868/870/872/874/876/878/880/882/884/886/888/890/892/894/896/898/900/902/904/906/908/910/912/914/916/918/920/922/924/926/928/930/932/934/936/938/940/942/944/946/948/950/952/954/956/958/960/962/964/966/968/970/972/974/976/978/980/982/984/986/988/990/992/994/996/998/1000/1002/1004/1006/1008/1010/1012/1014/1016/1018/1020/1022/1024/1026/1028/1030/1032/1034/1036/1038/1040/1042/1044/1046/1048/1050/1052/1054/1056/1058/1060/1062/1064/1066/1068/1070/1072/1074/1076/1078/1080/1082/1084/1086/1088/1090/1092/1094/1096/1098/1100/1102/1104/1106/1108/1110/1112/1114/1116/1118/1120/1122/1124/1126/1128/1130/1132/1134/1136/1138/1140/1142/1144/1146/1148/1150/1152/1154/1156/1158/1160/1162/1164/1166/1168/1170/1172/1174/1176/1178/1180/1182/1184/1186/1188/1190/1192/1194/1196/1198/1200/1202/1204/1206/1208/1210/1212/1214/1216/1218/1220/1222/1224/1226/1228/1230/1232/1234/1236/1238/1240/1242/1244/1246/1248/1250/1252/1254/1256/1258/1260/1262/1264/1266/1268/1270/1272/1274/1276/1278/1280/1282/1284/1286/1288/1290/1292/1294/1296/1298/1300/1302/1304/1306/1308/1310/1312/1314/1316/1318/1320/1322/1324/1326/1328/1330/1332/1334/1336/1338/1340/1342/1344/1346/1348/1350/1352/1354/1356/1358/1360/1362/1364/1366/1368/1370/1372/1374/1376/1378/1380/1382/1384/1386/1388/1390/1392/1394/1396/1398/1400/1402/1404/1406/1408/1410/1412/1414/1416/1418/1420/1422/1424/1426/1428/1430/1432/1434/1436/1438/1440/1442/1444/1446/1448/1450/1452/1454/1456/1458/1460/1462/1464/1466/1468/1470/1472/1474/1476/1478/1480/1482/1484/1486/1488/1490/1492/1494/1496/1498/1500/1502/1504/1506/1508/1510/1512/1514/1516/1518/1520/1522/1524/1526/1528/1530/1532/1534/1536/1538/1540/1542/1544/1546/1548/1550/1552/1554/1556/1558/1560/1562/1564/1566/1568/1570/1572/1574/1576/1578/1580/1582/1584/1586/1588/1590/1592/1594/1596/1598/1600/1602/1604/1606/1608/1610/1612/1614/1616/1618/1620/1622/1624/1626/1628/1630/1632/1634/1636/1638/1640/1642/1644/1646/1648/1650/1652/1654/1656/1658/1660/1662/1664/1666/1668/1670/1672/1674/1676/1678/1680/1682/1684/1686/1688/1690/1692/1694/1696/1698/1700/1702/1704/1706/1708/1710/1712/1714/1716/1718/1720/1722/1724/1726/1728/1730/1732/1734/1736/1738/1740/1742/1744/1746/1748/1750/1752/1754/1756/1758/1760/1762/1764/1766/1768/1770/1772/1774/1776/1778/1780/1782/1784/1786/1788/1790/1792/1794/1796/1798/1800/1802/1804/1806/1808/1810/1812/1814/1816/1818/1820/1822/1824/1826/1828/1830/1832/1834/1836/1838/1840/1842/1844/1846/1848/1850/1852/1854/1856/1858/1860/1862/1864/1866/1868/1870/1872/1874/1876/1878/1880/1882/1884/1886/1888/1890/1892/1894/1896/1898/1900/1902/1904/1906/1908/1910/1912/1914/1916/1918/1920/1922/1924/1926/1928/1930/1932/1934/1936/1938/1940/1942/1944/1946/1948/1950/1952/1954/1956/1958/1960/1962/1964/1966/1968/1970/1972/1974/1976/1978/1980/1982/1984/1986/1988/1990/1992/1994/1996/1998/2000/2002/2004/2006/2008/2010/2012/2014/2016/2018/2020/2022/2024/2026/2028/2030/2032/2034/2036/2038/2040/2042/2044/2046/2048/2050/2052/2054/2056/2058/2060/2062/2064/2066/2068/2070/2072/2074/2076/2078/2080/2082/2084/2086/2088/2090/2092/2094/2096/2098/2100/2102/2104/2106/2108/2110/2112/2114/2116/2118/2120/2122/2124/2126/2128/2130/2132/2134/2136/2138/2140/2142/2144/2146/2148/2150/2152/2154/2156/2158/2160/2162/2164/2166/2168/2170/2172/2174/2176/2178/2180/2182/2184/2186/2188/2190/2192/2194/2196/2198/2200/2202/2204/2206/2208/2210/2212/2214/2216/2218/2220/2222/2224/2226/2228/2230/223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Truss spaced at 24.0" OC designed to support 1-4-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

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

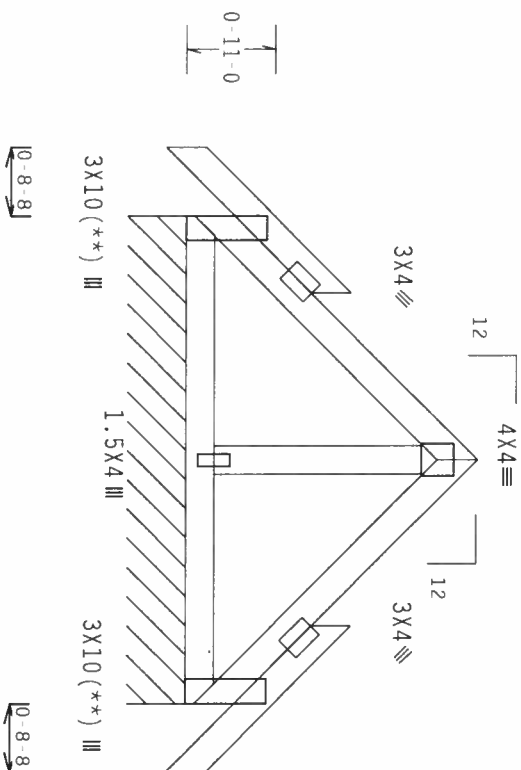
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 20.10 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. $I_w=1.00$ Gcpl(+/-)=0.18

Right end vertical not exposed to wind pressure.

See DWGS A11030EE0207 & GBLETTIN0207 for more requirements.

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.



0-11-0
18-5-14

3-0-1

Diagram of a continuous beam with four supports. The beam is divided into three equal spans of 1-8-8. The total length is 5-0-0. The beam is labeled "Over Continuous Support" and "PLF W=5-0-0". The beam is supported by four vertical supports. The beam is labeled "R=151 PLF".

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.35.0310

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

Scale = .5" / Ft.

****WARNING**** TRUSS'S REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCS' (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY FBI (TRUSS PLATE INSTITUTE, 210 HORTHILL STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300

THE TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT

IMPORTANT: FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. IWBG, 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 TRUSSESS.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. 17M BOLT CONNECTOR PLATES ARE MADE OF 2018/16GA (M. 11/55/K) ASTM A653 GRADE 40/60 (M. K/H. 55) GALV. STEEL. APPLY

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z
ANY INSPECTION OF PLATES FOLLOWED BY (A) SHALL BE PER ANNEX A3 OF TOL 2002 ETC 3

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.

1. *Chlorophyll a* (mg/g) 1.00
 2. *Chlorophyll b* (mg/g) 0.50
 3. *Chlorophyll a + b* (mg/g) 1.50
 4. *Carotenoids* (mg/g) 0.20
 5. *Protein* (mg/g) 1.00
 6. *Starch* (mg/g) 0.50
 7. *Cellulose* (mg/g) 0.50
 8. *Phenolic compounds* (mg/g) 0.50
 9. *Flavonoids* (mg/g) 0.50
 10. *Antioxidant activity* (mg/g) 0.50
 11. *Anticancer activity* (mg/g) 0.50
 12. *Antibacterial activity* (mg/g) 0.50
 13. *Antifungal activity* (mg/g) 0.50
 14. *Antiparasitic activity* (mg/g) 0.50
 15. *Antiviral activity* (mg/g) 0.50
 16. *Anticancer activity* (mg/g) 0.50
 17. *Antibacterial activity* (mg/g) 0.50
 18. *Antifungal activity* (mg/g) 0.50
 19. *Antiparasitic activity* (mg/g) 0.50
 20. *Antiviral activity* (mg/g) 0.50

ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 5667

316
J. COLLINS
No. 152212
STATE OF FLORIDA
PROFESSIONAL ENGINEER
OCT 10 07
QTY. 2

TC LL	20.0 PSF	REF	R8228- 39615
TC DL	10.0 PSF	DATE	10/09/07
BC DL	10.0 PSF	DRW	HCUR8228 07282083
BC LL	0.0 PSF	HC-ENG	TCE/AP
TOT.LD.	40.0 PSF	SEQN-	11110 REV
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF -	1TB8228Z01

R2)

110 mph wind, 20.30 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



350

230

QTY:16 FL/-/4/-/-/R/-

Scale = .5"/Ft.

SALES
No 52272
L. CENSE
J.P.

TC LL	20.0 PSF
<u>TC DL</u>	10.0 PSF

REF	R8228 - 39616
DATE	10/09/07

RC 11

HC-ENG TCE / AD

Oct 10 '07

DUR.FAC.	1.25
SPACING	24.0"

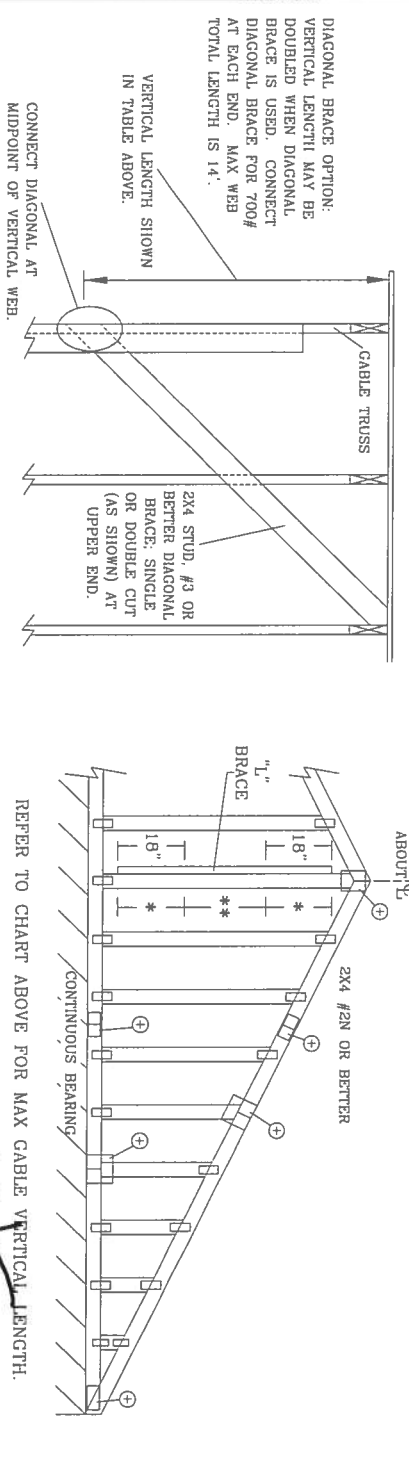
JREF - 1TBG8228Z01

GABLE VERTICAL SPACING	2x4 GABLE VERTICAL SPECIES	BRACE GRADE	BRACE NO. BRACES											
			(1) 1x4 "L" BRACE *				(1) 2x4 "L" BRACE *				(2) 2x4 "L" BRACE **			
12" O.C.	D.F.L.	SP	GROUP A				GROUP B				GROUP A			
			GROUP B				GROUP A				GROUP B			
16" O.C.	D.F.L.	SP	GROUP A				GROUP B				GROUP A			
			GROUP B				GROUP A				GROUP B			
24" O.C.	D.F.L.	SP	GROUP A				GROUP B				GROUP A			
			GROUP B				GROUP A				GROUP B			
12" O.C.	D.F.L.	SP	GROUP A				GROUP B				GROUP A			
			GROUP B				GROUP A				GROUP B			
16" O.C.	D.F.L.	SP	GROUP A				GROUP B				GROUP A			
			GROUP B				GROUP A				GROUP B			
24" O.C.	D.F.L.	SP	GROUP A				GROUP B				GROUP A			
			GROUP B				GROUP A				GROUP B			

BRACING GROUP SPECIES AND GRADES:											
GROUP A:						GROUP B:					
SPRUCE-PINE-FIR			HEM-FIR			SOUTHERN PINE			DOUGLAS FIR-LARCH		
#1 / #2	STANDARD	STUD	#1 / #2	STANDARD	STUD	#1 / #2	STANDARD	STUD	#1 / #2	STANDARD	STUD
#3			#3			#3			#3		
STANDARD			STANDARD			STANDARD			STANDARD		

GABLE TRUSS DETAIL NOTES:

- LIVE LOAD DEFLECTION CRITERIA IS L/240.
- PROVIDE UPLIFT CONNECTIONS FOR 100 PSF OVER CONTINUOUS BEARING (5 PSF TO DEAD LOAD).
- GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.
- ATTACH EACH "L" BRACE WITH 10d NAILS.
- FOR (1) "L" BRACE: SPACE NAILS AT 2' 0" O.C. IN 18" END ZONES AND 4' 0" O.C. BETWEEN ZONES.
- FOR (2) "L" BRACES: SPACE NAILS AT 3' 0" O.C. IN 18" END ZONES AND 6' 0" O.C. BETWEEN ZONES.
- "L" 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.

ALPINE

TRUSSING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE TRUSSING MANUAL, PUBLISHED BY THE TRUSSING INSTITUTE, 210 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22304, AND THIS DRAWING FOR THE TRUSSING FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BGC, INC. SHALL NOT BE RESPONSIBLE FOR THE DESIGN OR FAILURE TO BUILD THE TRUSS IN ACCORDANCE WITH THE TRUSSING MANUAL. THE TRUSSING INSTITUTE SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION. THE TRUSSING INSTITUTE SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION. THE TRUSSING INSTITUTE SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION.

ITV BGC, INC. SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION. THE TRUSSING INSTITUTE SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION. THE TRUSSING INSTITUTE SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION.

DESIGN POSITION PER DRAWING 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANS/101.1 SEC. 2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANS/101.1 SEC. 2.

MAX. TOT. LD. 60 PSF

MAX. SPACING 24' 0"

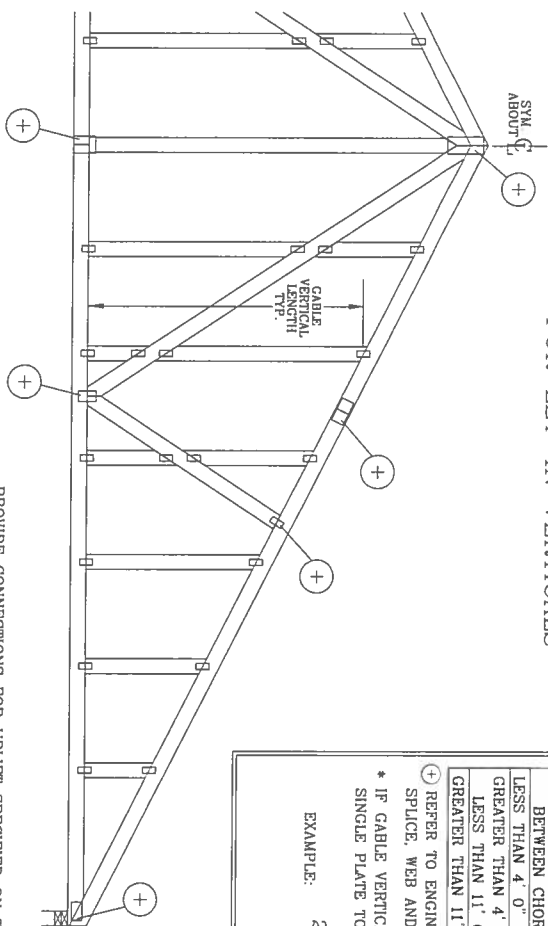
REF ASCE7-02-CAB1030

DATE 2/23/07

DRWG A11030EED0207

-ENG

CABLE DETAIL FOR LET-IN VERTICALS

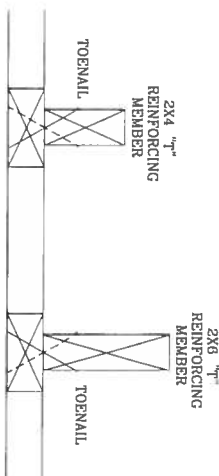
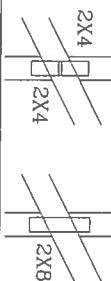


VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X6
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X6
GREATER THAN 11' 6"	2.5X4	2.5X6

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

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

EXAMPLE:



TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE 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 M/RH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
110 MPH	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
110 MPH	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
100 MPH	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
100 MPH	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
90 MPH	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
90 MPH	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
80 MPH	2x6	20 %	30 %
80 MPH	2x4	20 %	10 %
80 MPH	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
70 MPH	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
70 MPH	2x6	10 %	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24' O.C. SP #3

"T" REINFORCING MEMBER SIZE = 2X4
"T" 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"

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

ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN0207, A10015EN0207, A09030EN0207, A08015EN0207, A07015EN0207, A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207

ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A08015EC0207, A13030EC0207, A12030EC0207, A11030EC0207, A10030EC0207, A08030EC0207

ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EE0207, A12015EE0207, A11015EE0207, A10015EE0207, A08015EE0207, A13030EE0207, A12030EE0207, A11030EE0207, A10030EE0207, A08030EE0207

ASCE 7-05 GABLE DETAIL DRAWINGS
A13015E50207, A12015E50207, A11015E50207, A10015E50207, A08015E50207, A13030E50207, A12030E50207, A11030E50207, A10030E50207, A08030E50207

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

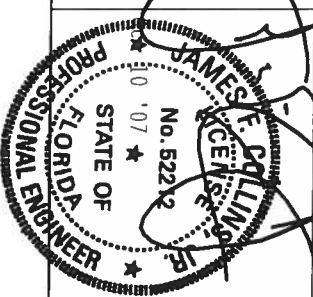
THIS DRAWING REPLACES DRAWINGS GAB98117 876.719 & HC26294035



ITV BUILDING COMPONENTS GROUP, INC.
POMPAHO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE BUILDING DEPARTMENT'S TRUSSING, PUBLISHED BY THE TRUSS COUNCIL OF AMERICA, 6900 ENTERPRISE LN. HANSON, VA 52719 FOR SAFETY PRACTICES PRIOR TO PREPARING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE TRUSS OR TO THE BUILDING FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE FABRICATING AND BRACING OF TRUSSES, ITV, BCG CONNECTOR PLATES ARE MADE OF 2018/1664 (A/H/S/S/X) ASTM A503 GRADE 40/60 (A/H/S/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY THE 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 TOT. LD. 60 PSF	REF LET-IN VERT
DUR. FAC. ANY	DATE 2/23/07
MAX SPACING 24.0"	DRWG GBLLETTINO207
	-ENG DLJ/KAR

PIGGYBACK DETAIL

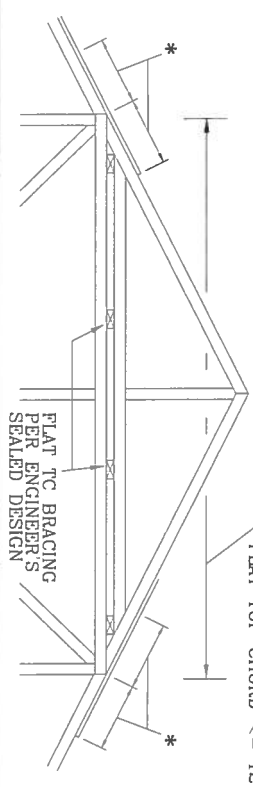
100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-02 OR ASCE 7-05, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

80 MPH WIND, 30.00 FT MEAN HGT, SBC, ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

100 MPH WIND, 30.00 FT MEAN HGT, ASCE 7-98, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5.0 PSF, WIND BC DL=5.0 PSF.

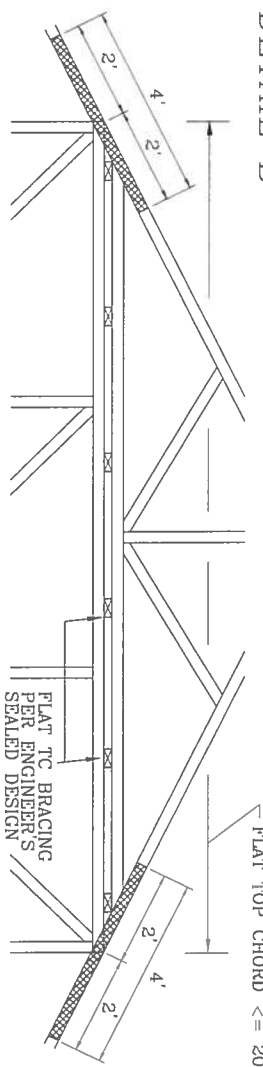
NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. PROVIDE DIAGONAL BRACING OR OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS.

DETAIL A



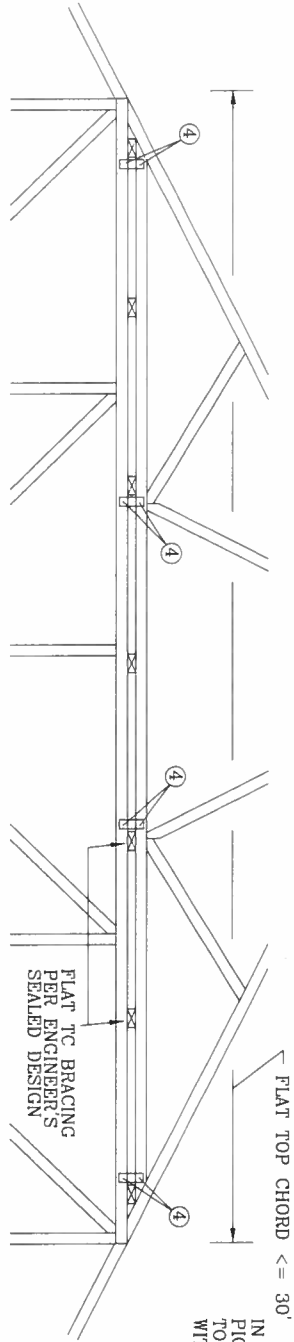
PIGGYBACK CAP TRUSS TOENAILLED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS.
* 12" MIN RIGID SHEATHING OVERLAP WITH 8d COMMON (0.131"x2.5") OR GUN NAILS IN OVERLAP ZONE SPACED AT 4" O.C.

DETAIL B



PIGGYBACK CAP TRUSS TOENAILLED TO ALL TOP CHORD BRACING WITH (2) 10d COMMON (0.148"x3") NAILS AND SECURED WITH 2x4 #3 GRADE SCAB (1 SIDE ONLY) ATTACHED WITH 10d COMMON NAILS AT 4" O.C.

DETAIL C



CAP TRUSS TOENAILLED TO TOP CHORD BRACING AND SECURED WITH 3XB TRULOX PLATES (EACH FACE) AT EACH END AND AT 1/3 POINTS. CIRCLED NUMBER INDICATES REQUIRED NUMBER OF 0.120" X 1.375" NAILS PER FACE. SEE DRAWING 160TL FOR TRULOX INFORMATION.

IN LIEU OF TRULOX CONNECTORS, ALPINE 62PB SPECIAL PIGGYBACK CONNECTORS MAY BE USED. SHOP APPLY TOOTHED PORTION, FIELD ATTACH TO MATING TRUSS WITH (4) 0.120" X 0.375" NAILS MINIMUM EACH FACE.



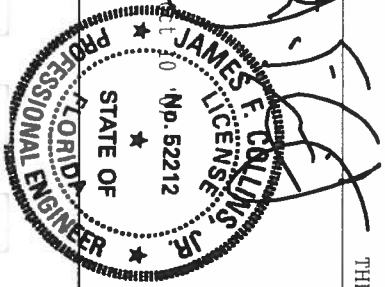
THIS DRAWING REPLACES DRAWINGS 581,670 & 961,860



ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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IMPORTANT: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH ITW OR FABRICATING, HANDLING, SHIPPING, INSTALLING, & BRACING OF TRUSSES. ITW BCG CONNECTOR PLATES ARE MADE OF 6061-T6 ALUMINUM. THEY ARE NOT TO BE USED IN ANY OTHER APPLICATION. ITW BCG CONNECTOR PLATES ARE MADE OF 6061-T6 ALUMINUM. THEY ARE NOT TO BE USED IN ANY OTHER APPLICATION. DESIGN, POSITION PER DRAWINGS 160A-2, ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE PER ANNEK 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.



TC LL	PSF	REF	PIGGYBACK
TC DL	PSF	DATE	2/23/07
BC DL	PSF	DRWG	PIGBACKA0207
BC LL	PSF	ENG	DLI/KAR
TOT. LD. MAX	60 PSF		
DUR. FAC.	1.15		
SPACING	24.0"		

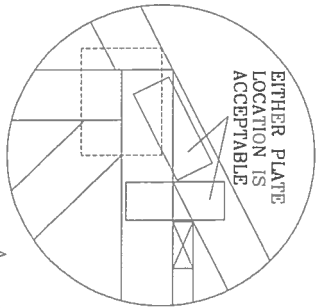
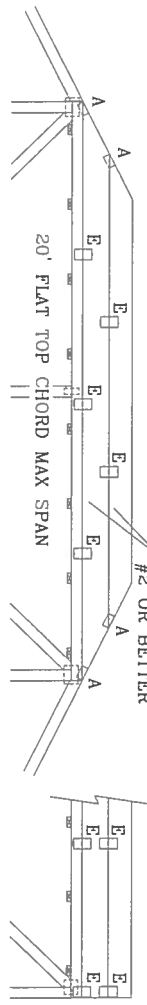
TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

PIGGYBACK DETAIL

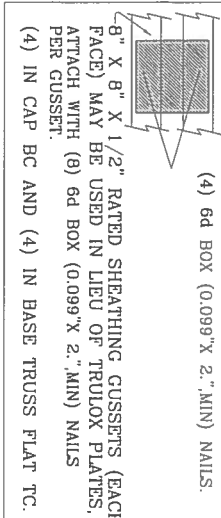
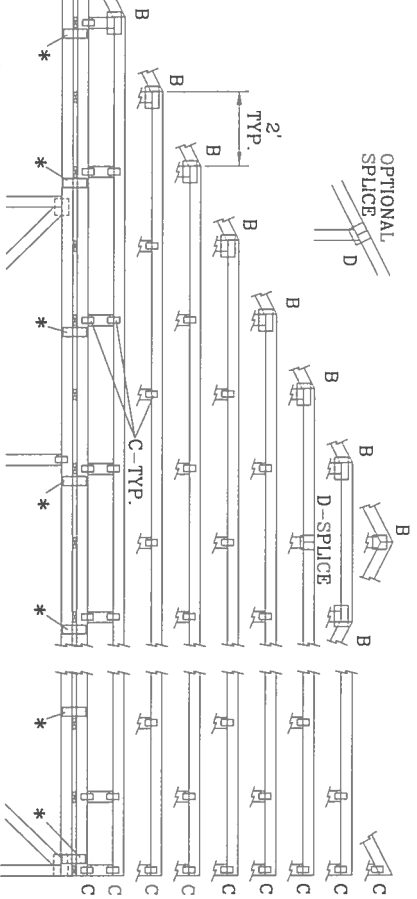
REFER TO SEALED DESIGN FOR DASHED PLATES.
SPACE PIGGYBACK VERTICALS AT 4' OC MAX.
TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

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, CAT II, 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.



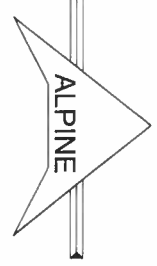
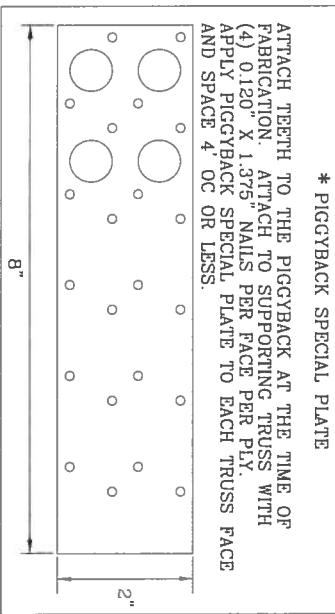
*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.



JOINT TYPE	SPANS UP TO			
	30'	34'	36'	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 TRULOX AT 4' OC, ROTATED VERTICALLY			

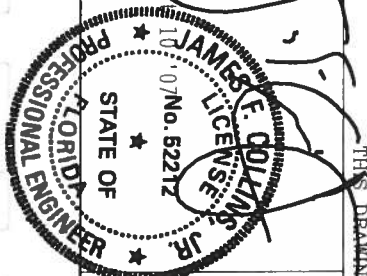
ATTACH TRULOX PLATES WITH (B) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

WEB LENGTH	WEB BRACING CHART
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "I" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d BOX (0.113" X 2.5" MIN) NAILS AT 4" OC.
10' TO 14'	2x4 "I" 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



ITW BUILDING COMPONENTS GROUP, INC.
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MAX LOADING	REF	PIGGYBACK
55 PSF AT	DATE	2/23/07
1.33 DUR. FAC.	DRWG	PIGGYBACK0207
50 PSF AT	ENG	DLJ/KAR
1.25 DUR. FAC.		
47 PSF AT		
1.15 DUR. FAC.		
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 CLIB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

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

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

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

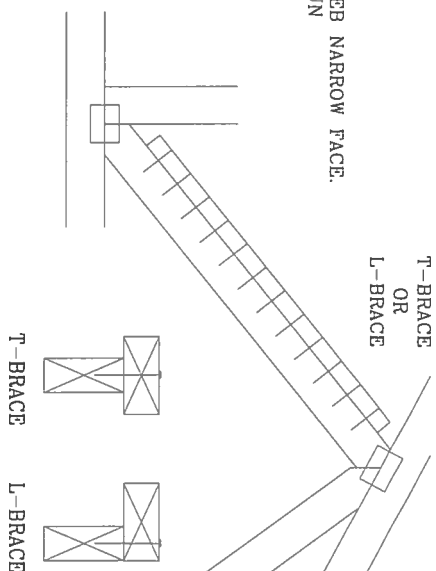
- (*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

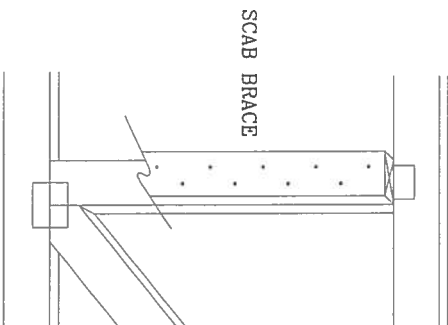
T-BRACING
OR
L-BRACING:

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:

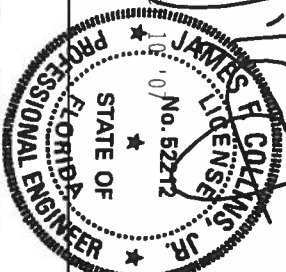
APPLY SCAB(S) TO WIDE FACE OF WEB
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN
(0.128"x 3.14") NAILS.
AT 6" O.C. BRACE IS A MINIMUM
80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640

ALL MAINTENANCE TASKS 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 (WOOD TRUSS CODE) AT ADDRESS 6300 ENTERPRISE LN., MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE TASKS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE A PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. TIV BEG, INC SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE BY THE TRUSS IN CONFORMANCE WITH TIP, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CONFLICTS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY AIA AND PERMITTING AGENCIES. ALL TRUSSES TO BE MADE OF 6061-T6 ALUMINUM. ALL BOLTS TO BE 7079-T6 ALUMINUM. CONNECTOR PLATES ARE MADE OF 6061-T6 ALUMINUM. ASH 8653 GRADE 40/60 Q/A/H/ST/PC DESIGN POSITION PER DRAWINGS 1600-2. AN INSPECTION OF PLATES PROVIDED WITH PER ANNEK 43 OF TIP 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 MSW/TIP 1, SEC. 2.



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			

