

(7 165 - 1 - T44)

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

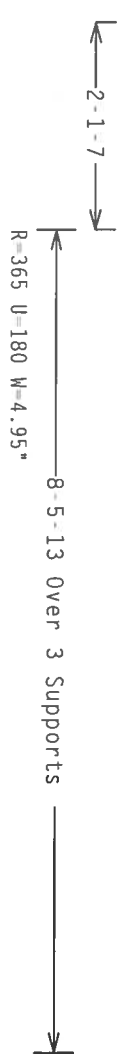
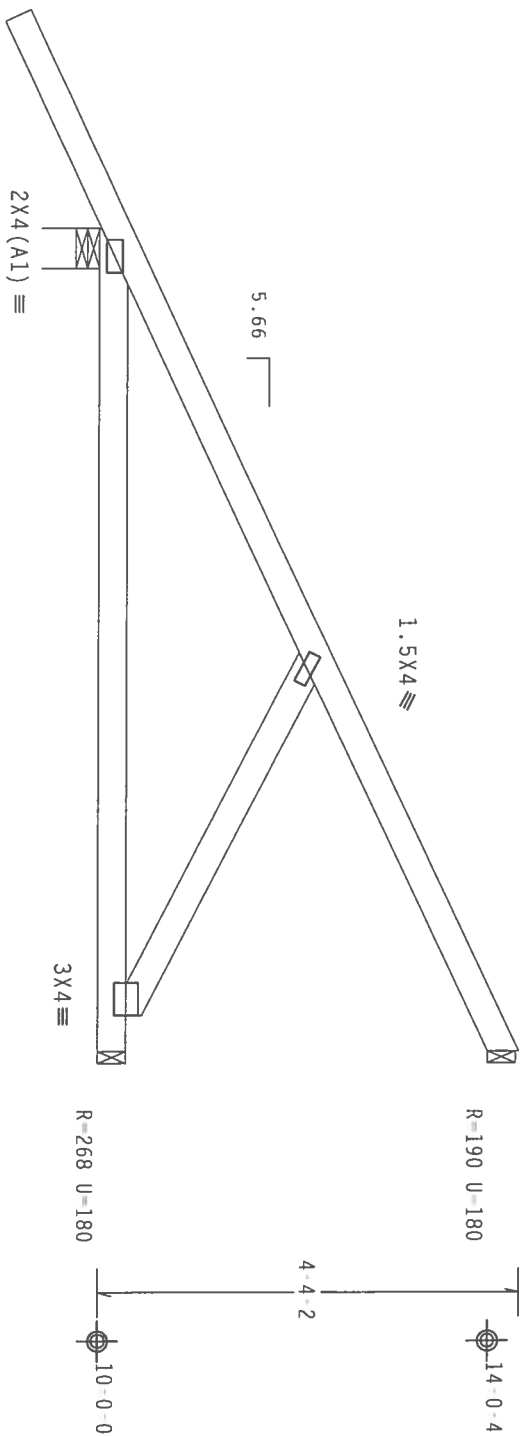
Hipjack supports 6'-0" setback jacks with no webs.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, OPEN bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $6cp1(+/-)=-0.00$

Wind reactions based on MMFRS pressures.

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



PLT TYP. Wave

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

7.24.12

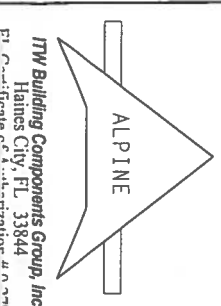
OTY:1

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

Scale = .5"/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, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 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 THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. ITW BCG DESIGN CONTRACTS WITH APPLICABLE PROVISIONS OF MD5 (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/10/10GA (U-10/55/K) ASH 4060 GRADE 40/60 (K-10/55) GALV. STEEL. APPLY AND INSPECT FOR CORROSION. SHALL BE PERMANENTLY LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1604-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S RESPONSIBILITY. A SEAL OR THIS 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.



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



TC LL	20.0 PSF	REF	R487 - 2787
TC DL	10.0 PSF	DATE	11/29/07
BC DL	10.0 PSF	DRW	HCUSR487 07333006
BC LL	0.0 PSF	HC-ENG	DAL/DF
TOT.LD.	40.0 PSF	SEQN-	23279
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TCU487 Z01

(7-165-1 - T45)

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

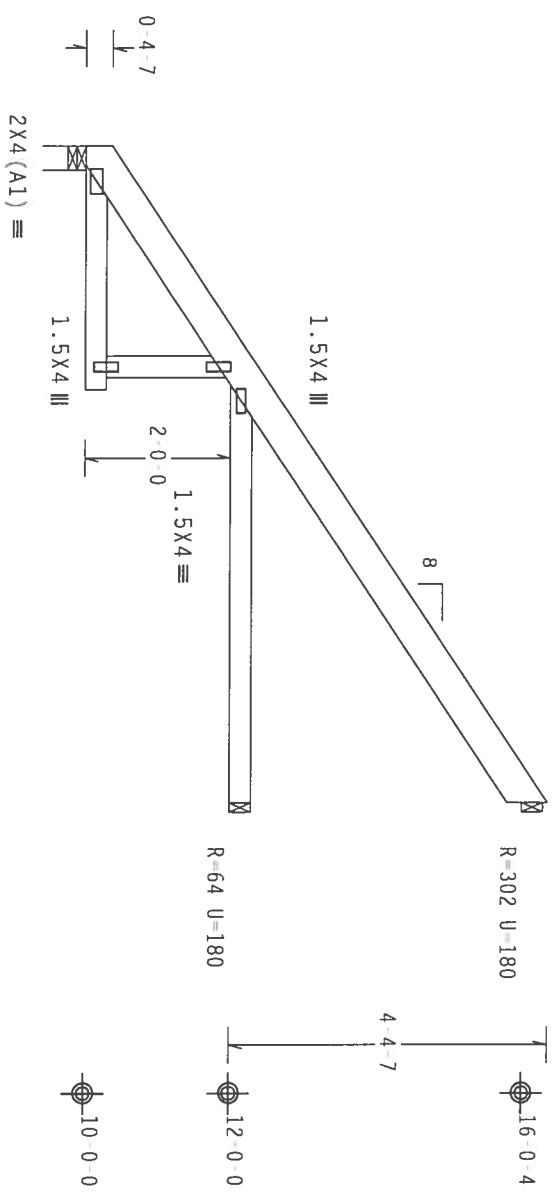
Calculated horizontal deflection is 0.12" due to live load and 0.19" due to dead load.

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

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

Wind reactions based on MMFRS pressures.

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



9'-0-0 Over 3 Supports
R=368 U=180 W=4"
(0.769" Effective Contact)

PLT TYP. Wave

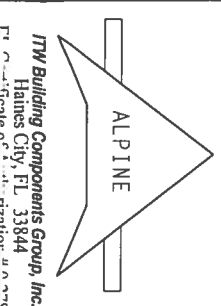
Design Crit: TPI 2002(STD)/FBC
 $C_q/R_T=1.00(1.25)/10(0)$

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

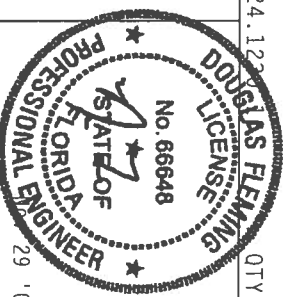
Scale = .375"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE NATIONAL TRUSS COUNCIL OF AMERICA, 1000 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. ITM 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 AREA) AND TPI. ITM BCG CONNECTION PLATES ARE MADE OF 2018/T606 (WU/SS/S) ASTM A653 GRADE 40/60 (WU/SS) GALV. STEEL. APPLY A PROTECTIVE COATING TO ALL EXPOSED SURFACES. BRACING SHALL BE PERMITTED AS OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES THE SUFFICIENCY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITM Building Components Group, Inc.
Haines City, FL 33844
Fabrication Division

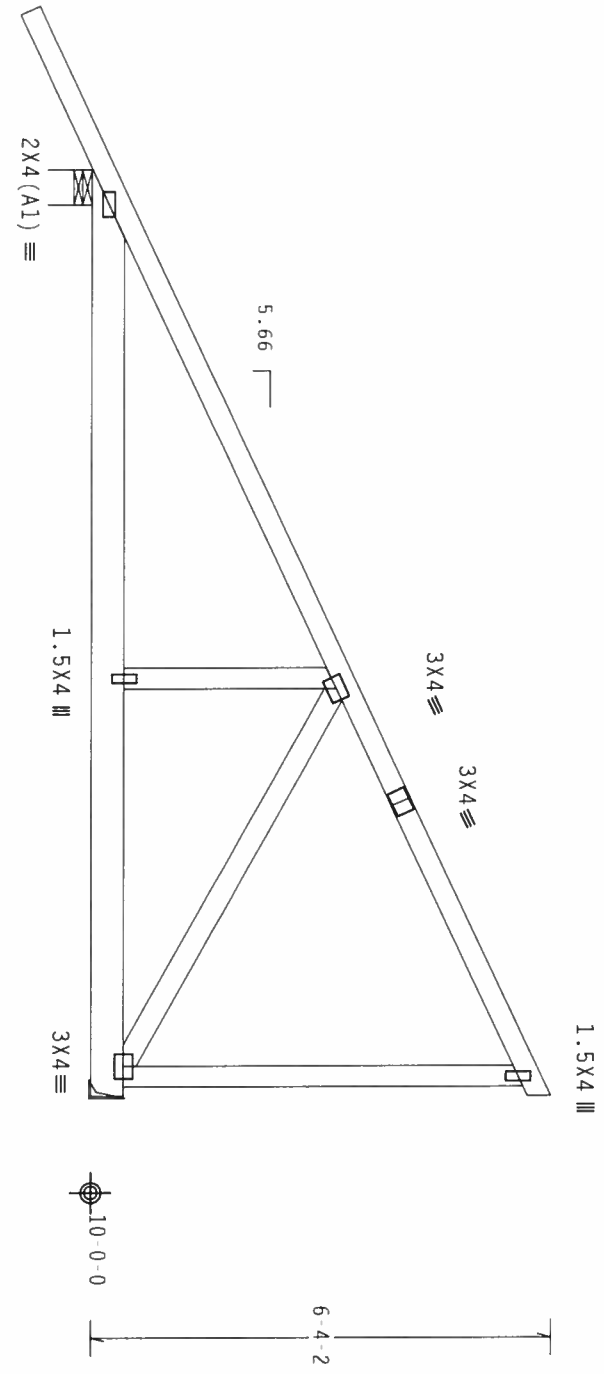


TC LL	20.0 PSF	REF	R487-2788
TC DL	10.0 PSF	DATE	11/29/07
BC DL	10.0 PSF	DRW	HCUSR487 07333011
BC LL	0.0 PSF	HC-ENG	DAL/DF
TOT.LD.	40.0 PSF	SEQN-	23275
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	DRFF-	ITCU487 201

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

Hipjack supports 9 0-0 setback jacks. Jacks up to 7' have no webs. Longer jacks supported to BC.
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.
Right end vertical not exposed to wind pressure.



← 2'-1" →
12'-8" 12 Over 2 Supports
R=744 U=180 W=5.657"
R=1072 U=180

PLT TYP. Wave

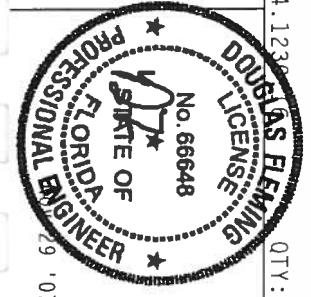
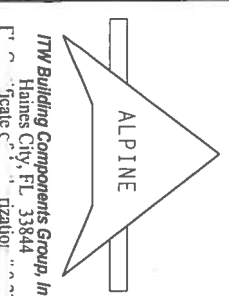
Design Crit: TPI-2002 (STD) / FBC
Cq/RT=1.00 (1.25) / 10 (0)

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

Scale = .375" / Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI, THROUGH THE NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WCA TRUSS COMPANY OF AMERICA, 600 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. ITW BCG DESIGN COMPLIANCE WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ALAPA) AND TPI. ITW BCG CONNECTIONS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A, 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE THE OWNER AS OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/PTI 1 SEC. 2.

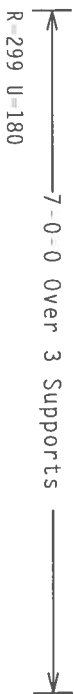


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BC DL	10.0 PSF	DRW	HCUSR487 0733017
BC LL	0.0 PSF	HC-ENG	DAL/DF
TOT.LD.	40.0 PSF	SEQN-	23355
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	1TCU487 201

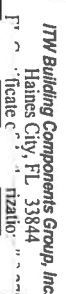
המחברת מודה לפרופ' יעקב גולדמן, ראש המחלקה, על הסיוע והעידוד.

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.



Scale = .5"/Ft.



DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ASHRAE/IFI 1 SEC. 2.

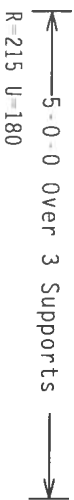


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TC DL	10.0 PSF	DATE	11/29/07
BC DL	10.0 PSF	DRW	HCUSR487 07333014
BC LL	0.0 PSF	HC-ENG	DAL/DF *
TOT.LD.	40.0 PSF	SECN-	23307
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF -	1TCU487 Z01

THE UNIVERSITY OF CHICAGO

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.



Scale = .5"/Ft.

****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 ITB, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

TC DL	10.0 PSF	DATE	11/29/07
BC DL	10.0 PSF	DRW	HCUSR487 07333015
BC LL	0.0 PSF	HC-ENG	DAL/DF *
TOT.LD.	40.0 PSF	SEQN -	23311
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF -	1TCU487 Z01

(7 165 1 T49)

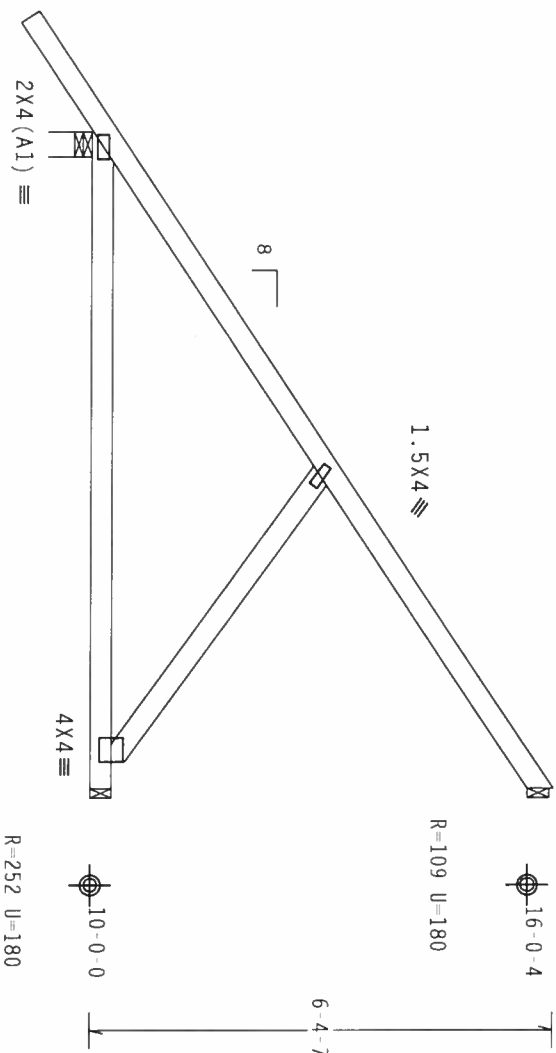
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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

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

Wind reactions based on MWFRS pressures.

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



PLT TYP. Wave

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

7.24.1230

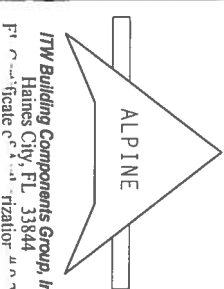
QTY:2 FL/-/4/-/E/R/-

Scale = .375"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DECS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 6300 NORTH LEE STREET, SUITE 212, 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**** THROUGH 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 WDS (QUALITY DESIGN SPEC. BY AFPA) AND TPI. ITW BCG CONNECTIONS ARE MADE OF 20/10/16GA (W/1/55/S) ASH K65 GRADE 40/60 (W/ K/1/55) GALV. STEEL. APPLY ANY INSPECTION CHECK OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. ANY INSPECTION CHECK OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z. BRACING INDICATES ACCEPTANCE OF THE TRUSS DESIGN 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
P.O. Box 1174
Haines City, FL 33844



TC LL	20.0 PSF	REF R487-- 2792
TC DL	10.0 PSF	DATE 11/29/07
BC DL	10.0 PSF	DRW HCUR487 07333012
BC LL	0.0 PSF	HC-ENG DAL/DF *
TOT. LD.	40.0 PSF	SEQN- 23299
DUR. FAC.	1.25	FROM AH
SPACING	24.0"	JRFF- 1TCU487 201

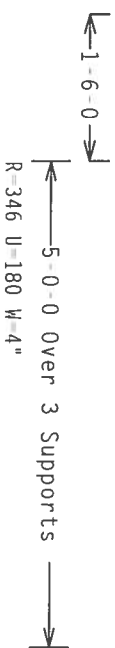
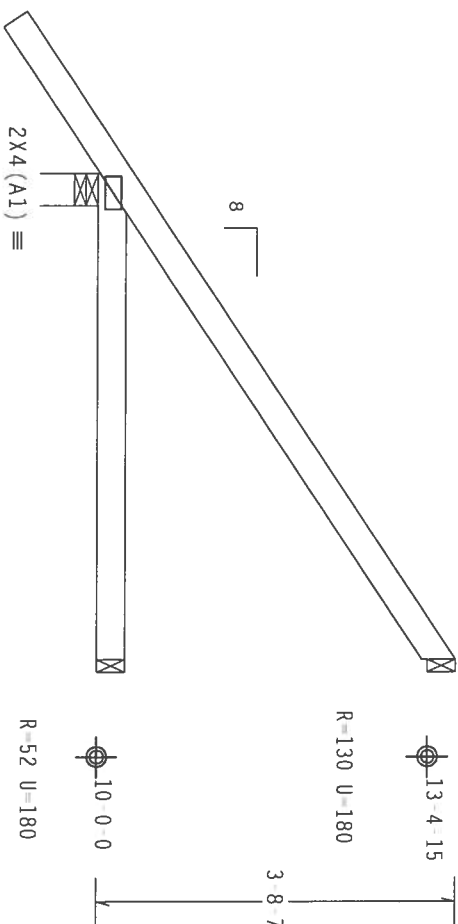
(7-165-1 - T16)

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.

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

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)/10(0)

7.24.1230

QTY: 4

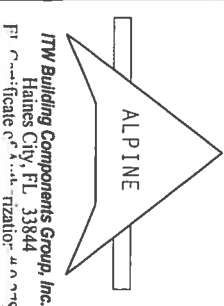
FL/-/4/-/E/R/-

Scale = .5"/ft.

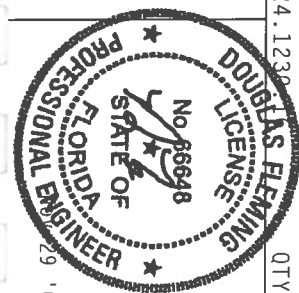
****WARNING**** TRUSSES REQUIRE EXTERIOR GALT IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6500 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 COMPLIES WITH APPLICABLE PROVISIONS OF 2003 NATIONAL DESIGN SPEC. BY AIA/PA AND TPI. ITW BCG DESIGN PLATES ARE MADE OF 20/10/16GA (W/H/S/S/S) ASTM A653 GRADE 40/60 (W, K/H/S/S) GALV. STEEL. APPLY TO ALL TRUSSES AND BRACING. LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, 2, 160B, 2, 160C, 2, 160D, 2, 160E, 2, 160F, 2, 160G, 2, 160H, 2, 160I, 2, 160J, 2, 160K, 2, 160L, 2, 160M, 2, 160N, 2, 160O, 2, 160P, 2, 160Q, 2, 160R, 2, 160S, 2, 160T, 2, 160U, 2, 160V, 2, 160W, 2, 160X, 2, 160Y, 2, 160Z, 2. ANY INSPECTION OF PLATES FOLLOWED BY A SEAL OR THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE TRUSS COMPONENT DESIGN SHOWS 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
For more information, visit us at www.alpinebuilding.com



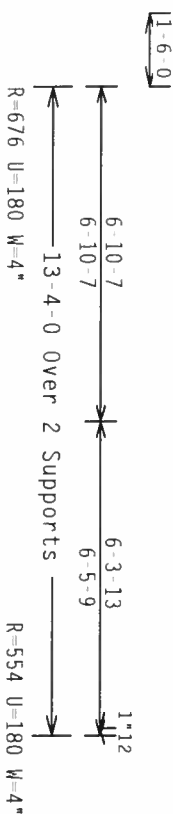
TC LL	20.0 PSF	REF	R487--	2793
TC DL	10.0 PSF	DATE	11/29/07	
BC DL	10.0 PSF	DRW	HCUSR487	07333002
BC LL	0.0 PSF	HC-ENG	DAL/DF	*
TOT. LD.	40.0 PSF	SEQN-	23335	
DUR. FAC.	1.25	FROM	AH	
SPACING	24.0"	JRFF-	1TCU487	201

החלפת כנפיו וסילון חסותו, כחומר אבולוציוני מן המעט, וזאת באמצעות העתק אמצעיתו מחדש בגוף.

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Scale = .25"/Ft.

****IMPORTANT**** BRUSH UP 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 OR FABRICATING, HANDLING, SHIPPING, INSTALLING BRACING OR TRUSSES.



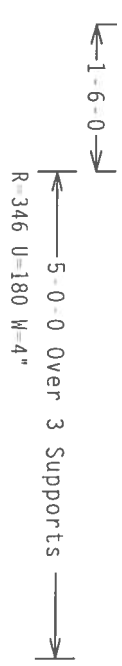
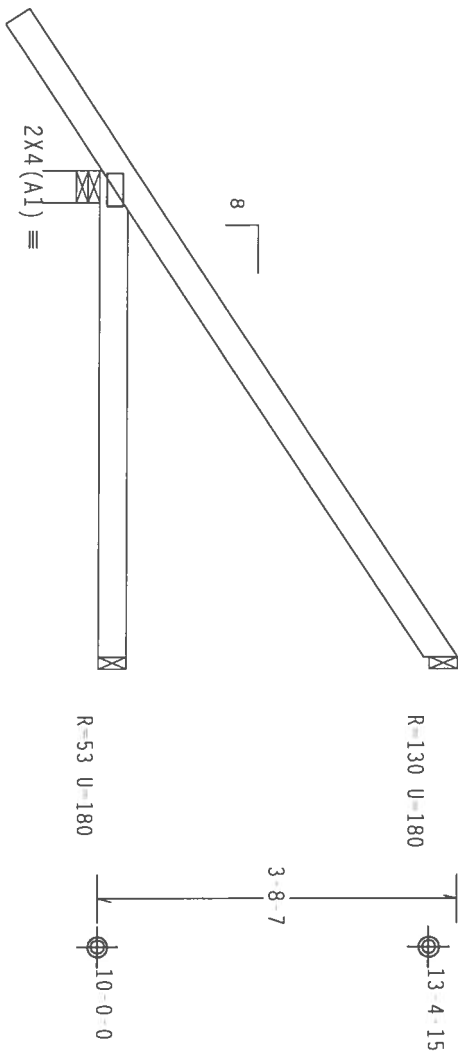
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TC DL	10.0 PSF	DATE	11/28/07
BC DL	10.0 PSF	DRW	HCUSR487 07332043
BC LL	0.0 PSF	HC-ENG	DF/DF *
TOT.LD.	40.0 PSF	SE0N-	24329
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF -	1TCU487 201

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.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, OPEN bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpl(+/-)=0.00
Wind reactions based on MMFRS pressures.



PLT TYP. Wave

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

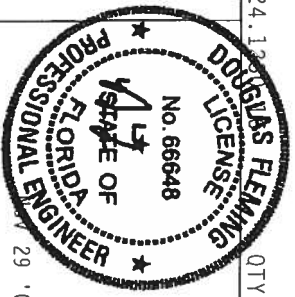
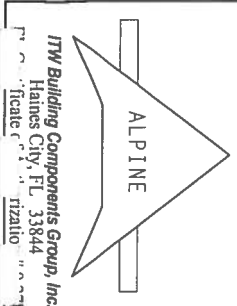
QTY: 6 FL/-/4/-/E/R/-

Scale = .5"/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 INSTALLATION, 2100 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. 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 NDS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. THE BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A, Z, DRAWING 160B, Z, OR PLATES FURNISHED BY TPI SHALL BE PER ANCHORS AS OF TPI 2002 SEC. 3. 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.



TC LL	20.0 PSF	REF	R487-- 2795
TC DL	10.0 PSF	DATE	11/28/07
BC DL	10.0 PSF	DRW	HCUSR487 07332022
BC LL	0.0 PSF	HC-ENG DF/DF	*
TOT.LD.	40.0 PSF	SEQN-	24485
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	DRFF-	1TCU487 Z01

(7 165 1 - T38)

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

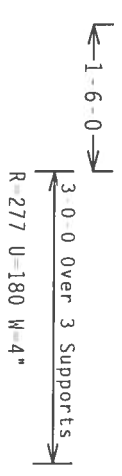
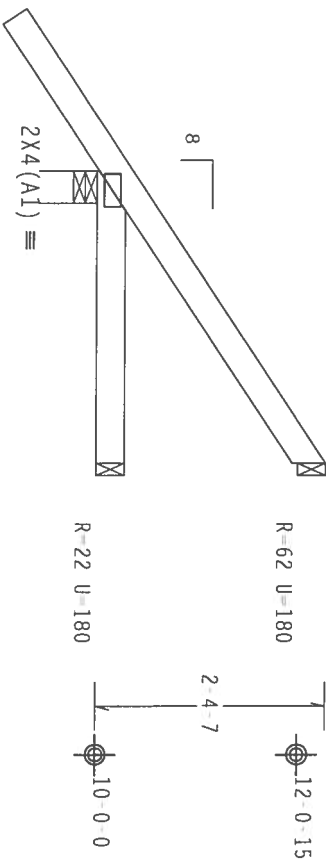
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

THIS DWG PREPARED FROM COMPUTER DRAWING (LOADS & DIMENSIONS) SUBMITTED BY IKUUS M.R.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, OPEN bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $GCPi(+/-)=0.00$

Wind reactions based on MMFRS pressures.



PLT TYP. Wave

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

QTY:11 FL/-/4/-/E/R/-

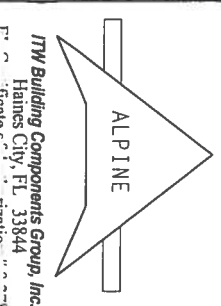
Scale =.5"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I BUILDING COMPONENT SAFETY MANUAL, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WICHARD TRUSS COMPANY, 1000 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.

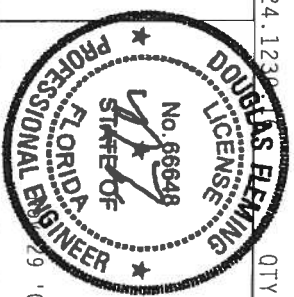
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF TRUSSES IN CONFORMANCE WITH THE DESIGN OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. (NDS) AND TPI-2002 (STD). THE BCG CORRECTION PLATES ARE MADE OF 20/10/16GA (W/15/5/8) ASTM A653 GRADE 40/60 (W/15/5) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGNER'S DESIGN 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
Toll-free 1-800-333-3333

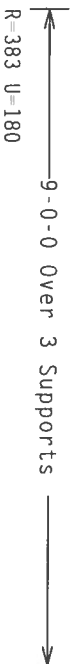


TC LL	20.0 PSF	REF	R487 - 2796
TC DL	10.0 PSF	DATE	11/28/07
BC DL	10.0 PSF	DRW	HCUSR487 07332023
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN	24481
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF	1TCU487 Z01

א.ר. כנא וז של וולופט (כמנסיונות & טעם) וטרי אוטוויט דער טאטאט טעט נוח

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.



Scale = .375"/Ft.

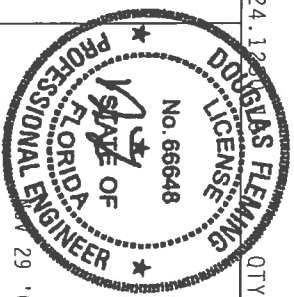
BRACING,
JUNE, 218
A. 6300
UNLESS
SHALL HAVE

D00
LICENSE

No. 66648

ITW Building Components Group, Inc.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TIP 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 2798
TC DL	10.0 PSF	DATE	11/29/07
BC DL	10.0 PSF	DRW	HCU8R487 07333013
BC LL	0.0 PSF	HC-ENG	DAL/DF *
TOT.LD.	40.0 PSF	SECN-	23303
DUR.EAC.	1.25	FROM	AH
SPACING	24.0"	JRF -	1TCU487 201

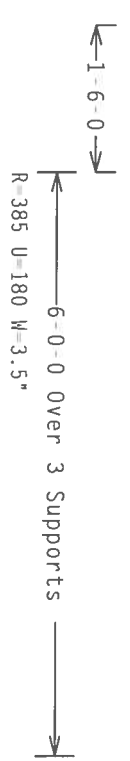
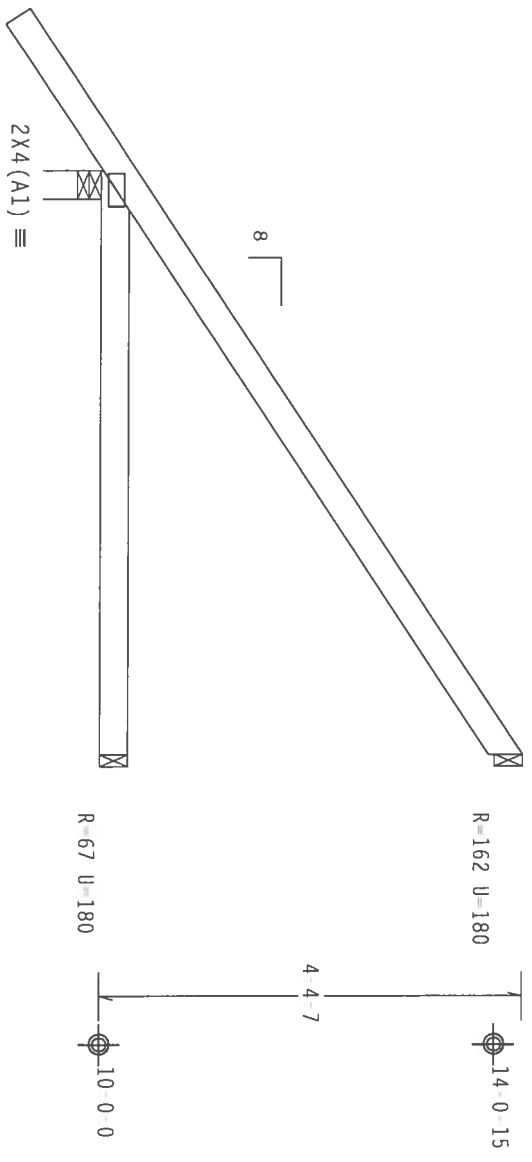
(7 165 1 - 155)

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.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, OPEN 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 GCp1(+/-)=0.00
Wind reactions based on MMFRS pressures.



PLT TYP. Wave

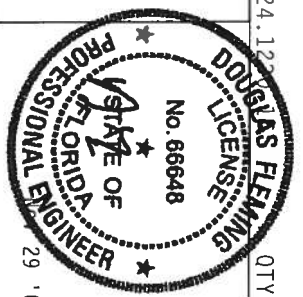
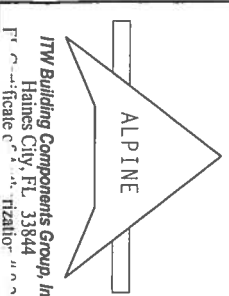
Design Crtt: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

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

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, 6300 MORRIS LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 53719 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 OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES, SHALL BE THE RESPONSIBILITY OF THE INSTALLER. 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 A BRACING OF TRUSSES, SHALL BE THE RESPONSIBILITY OF THE INSTALLER.

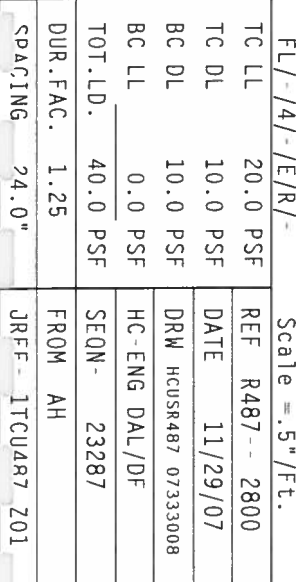


TC LL	20.0 PSF	REF	R487 - 2799
TC DL	10.0 PSF	DATE	11/29/07
BC DL	10.0 PSF	DRW	HCUSR487 07333007
BC LL	0.0 PSF	HC-ENG	DAL/DF
TOT.LD.	40.0 PSF	SEQN-	23283
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	ITCU487 201

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

Wind reactions based on MMFRS pressures.

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



(7.165 1 T7)

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

Truss spaced at 24.0" OC designed to support 1-0-0 top chord
outlookers. Cladding load shall not exceed 4.00 PSF. Top chord
must not be cut or notched.

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

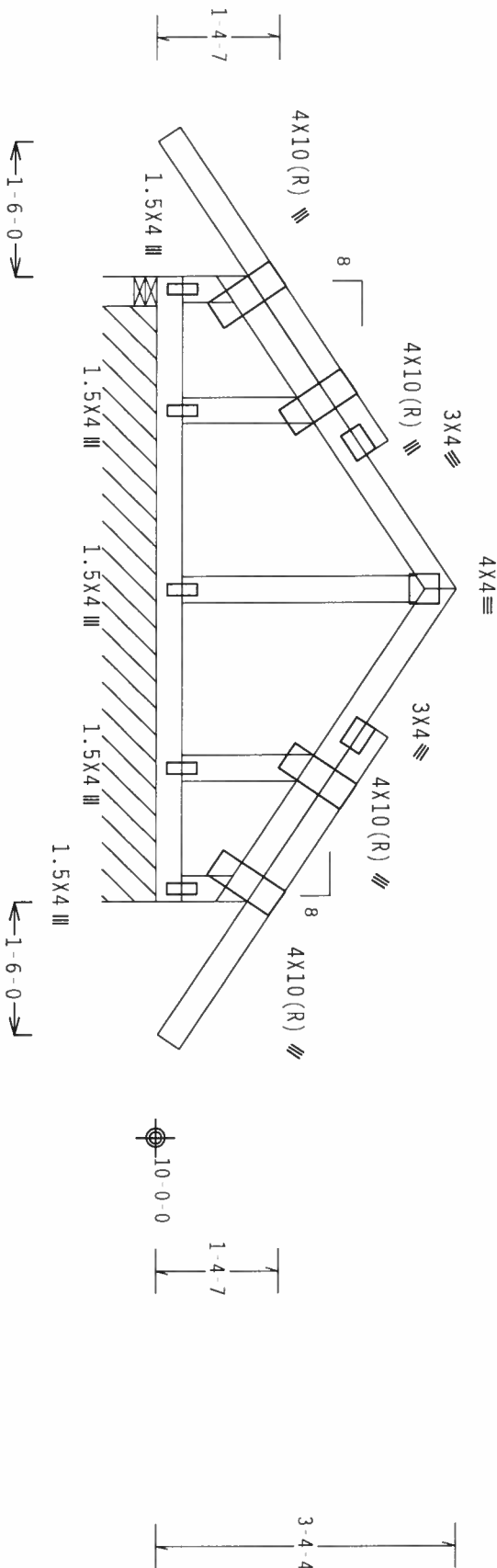
The Building Designer is responsible for the design of the
roof and ceiling diaphragms, gable end shear walls, and
supporting shear walls. Shear walls must provide continuous
lateral restraint to the gable end. All connections to be
designed by the Building Designer.

110 mph wind, 15.00 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.

See DWGS A11015EE0207 & GBLLET11N0207 for more requirements.

Fasten rated sheathing to one face of this frame.



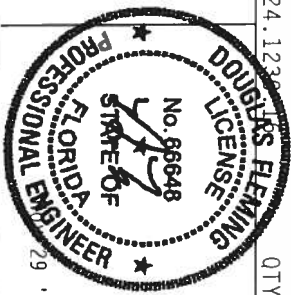
R=218 U=258 W=4"
R=100 PLF U=45 PLF W=6-8-0

PLT TYP. Wave

Design Cmt: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.1238

****WARNING**** TRUSSES REQUIRE EXTENSIVE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
RETURN TO BEST BUILDING COMPONENT SAFETY INFORMATION AND WCA (HOND TRUSS, CONNECT OF AMERICA,
HORN LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WCA (HOND TRUSS, CONNECT OF AMERICA,
ENTERPRISE LANE, MANITOW, WI 53219) 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 TRUSSES IN PERFORMANCE WITH
THEIR OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AIA/AAI AND TPI. THE BCG
CONNECTIONS ARE MADE OF 20/18/16GA (W/155/K) ASH 4653 GRADE 40/60 (W/155) GALV. STEEL. APPLY
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 1604 Z.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMCA 33 OF TPI 2002 SEC.3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER AMCA/TPI 1 SEC. 2



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

Scale = .5"/ft.

TC LL	20.0 PSF	REF	R487-- 2801
TC DL	10.0 PSF	DATE	11/29/07
BC DL	10.0 PSF	DRW	HCUSR487 0733038
BC LL	0.0 PSF	HC-ENG	TCE/DF
TOT.LD.	40.0 PSF	SEQN-	23319
DUR.FAC.	1.25	FROM	AH
SPACING	SFF ABOVE	DRF-	1TCU487 201

THIS WORK PREPARED FROM COMPUTER INPUT (LUAUS & DIMENSIONS) SUBMITTED BY IKUSL MKK.

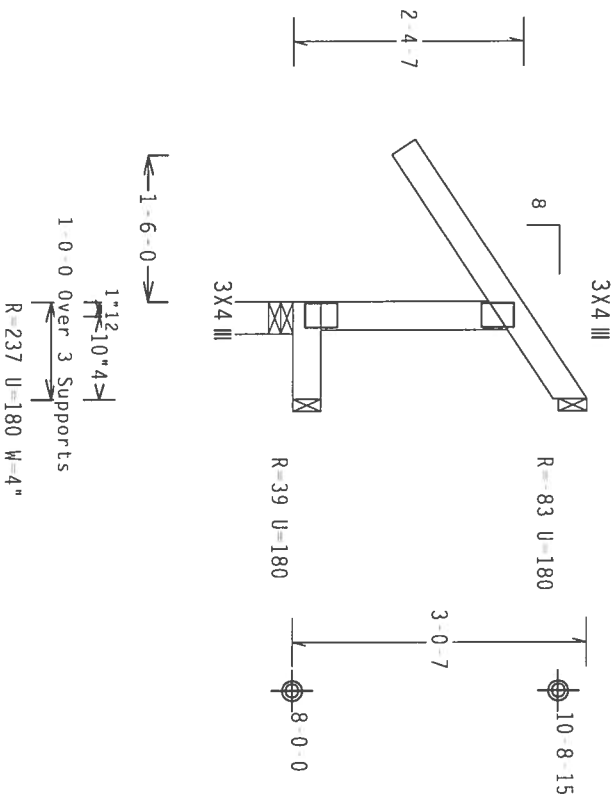
Left end vertical not exposed to wind pressure.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

Bearing reaction of -82# at (1.0-0, 10-8-15), requires special connection to resist uplift from loads other than wind.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof 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.



PLT TYP. Wave

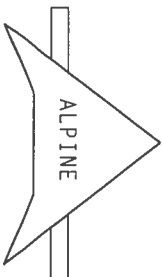
Design Crit: TPI-2002(STD)/FBC

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

7.24.123

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

Scale = .5"/Ft.

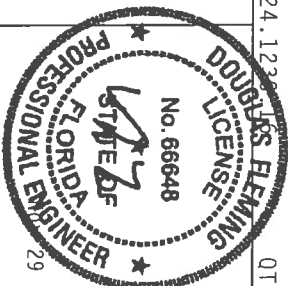


WARNING - FROGS' RESISTANT CHROMITE CASE IN FABRICATION. HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC-51 (BUILDING COMPONENT CASE IN FABRICATION). PUBLISHED BY IFI (FROSS PLASTIC INSTITUTE), 218 NORTH 1ST STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MICA GOOD NEWS COUNCIL OF AMERICA, 6500 GORDON ENTERPRISE LANE, MADISON, MI, 48131 FOR SAFETY PRACTICES PRIOR TO PREFORMING THESE OPERATIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

****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 FOLLOWING, INCLUDING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/18/1664 (H, H, 55/K) ASTM A653 GRADE 40/60 (H, K/H, 55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITIONING PER DRAWINGS 160A-1. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11 2002 SEC.3. A SEAL ON THIS

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



TC LL	20.0 PSF	REF	R487 - 2802
TC DL	10.0 PSF	DATE	11/28/07
BC DL	10.0 PSF	DRW	HCUSR487 07332008
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN	24437
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF -	1TCU487 201

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. $I_w=1.00$ $GCF(+/-)=0.18$

Wind reactions based on MMFRS pressures.

Left end vertical not exposed to wind pressure.

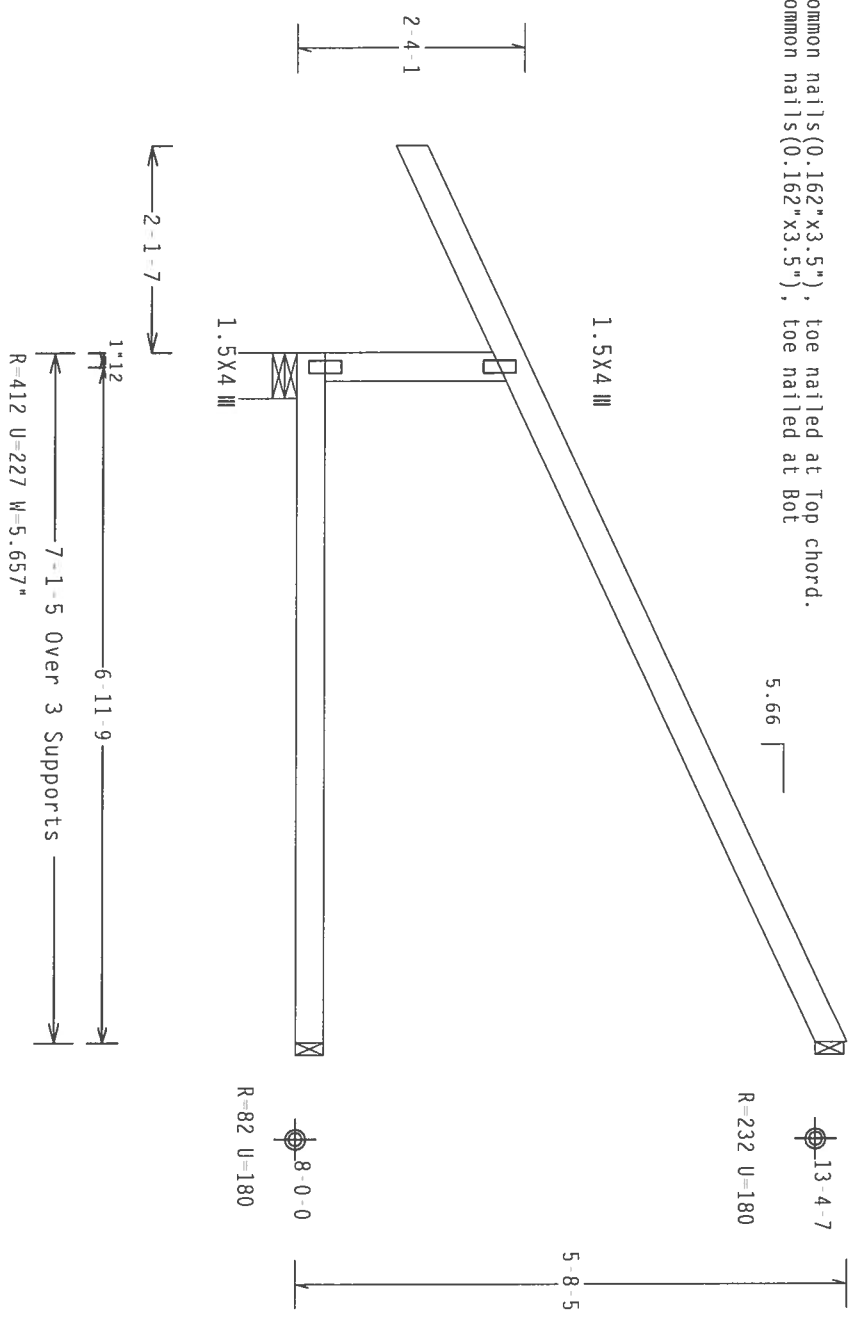
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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

SPECIAL LOADS

TC - From	62 PLF at -2.12 to 62 PLF at 7.11
BC - From	4 PLF at -2.12 to 4 PLF at 0.00
BC - From	20 PLF at 0.00 to 20 PLF at 0.47
BC - From	4 PLF at 0.47 to 4 PLF at 7.11
TC - 166 LB Conc. Load at	1.48
TC - 115 LB Conc. Load at	4.31
BC - 78 LB Conc. Load at	1.48
BC - 80 LB Conc. Load at	4.31

Calculated horizontal deflection is 0.14" due to live load and 0.12" due to dead load.



PLT TYP. Wave

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

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

Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTERIOR GRADE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC&I BUILDING COMPONENT SAFETY INFORMATION, PROVIDED BY THE MANUFACTURER, FOR THE TRUSS COMPONENTS. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND VICA (VIRGINIA COMMUNITY AND COMMUNITY ASSOCIATION) OF AMERICA, 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.

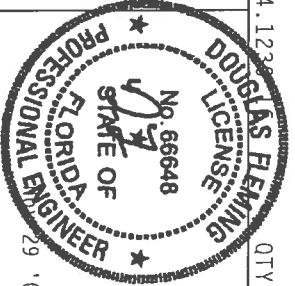
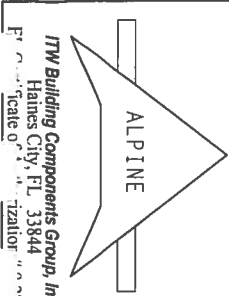
THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR.

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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.



TC LL	20.0 PSF	REF	R487 - 2803
TC DL	10.0 PSF	DATE	11/28/07
BC DL	10.0 PSF	DRW	HCUSR487 07332040
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	24454
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	1TCU487 201

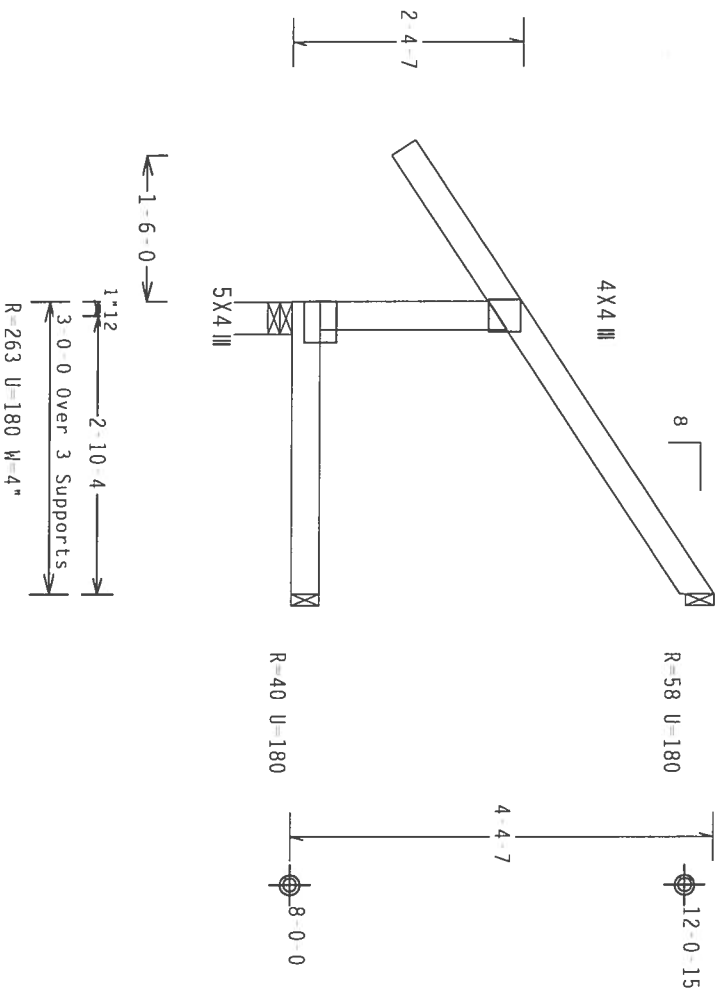
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#2	Dense

Calculated horizontal deflection is 0.20" due to live load and 0.12" due to dead load.

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

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

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



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

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

7.24.12304 JMS E.R. QTY:4 FL/-/4/-/E/R/-

Scale = 5" / Ft.

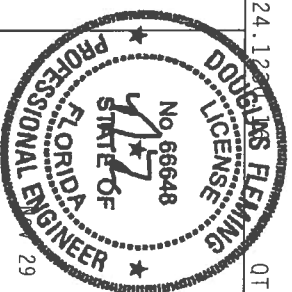
WARNING: THIS IS A HIGHLY TOXIC CHEMICAL. CARE IN FABRICATION, HANDLING, CARRYING, UNLOADING, INSTALLING AND DRIPPING. RETURN TO RECIPIENT. (CONTAINING COMBUSTIBLE SOLID INFORMATION) PUBLISHED BY THE NATIONAL BUREAU OF STANDARDS, 410 NORTH 34TH STREET, SUITE 312, ALEXANDRIA, VA 22314 AND NICK CARROLL, TRUSS CONSULTING OF AMERICA, 2101 ENTERPRISE LANE, HANNOVER, NH 03119. 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

Efficiently calculate the variance of a distribution



TC LL	20.0 PSF	REF	R487 - 2804
TC DL	10.0 PSF	DATE	11/28/07
BC DL	10.0 PSF	DRW	HCUSR487 07332010
BC LL	0.0 PSF	HC-ENG DF/DF	*
TOT.LD.	40.0 PSF	SEQN	24442
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF - 1TCU487	Z01

(7 165 1 T9)

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

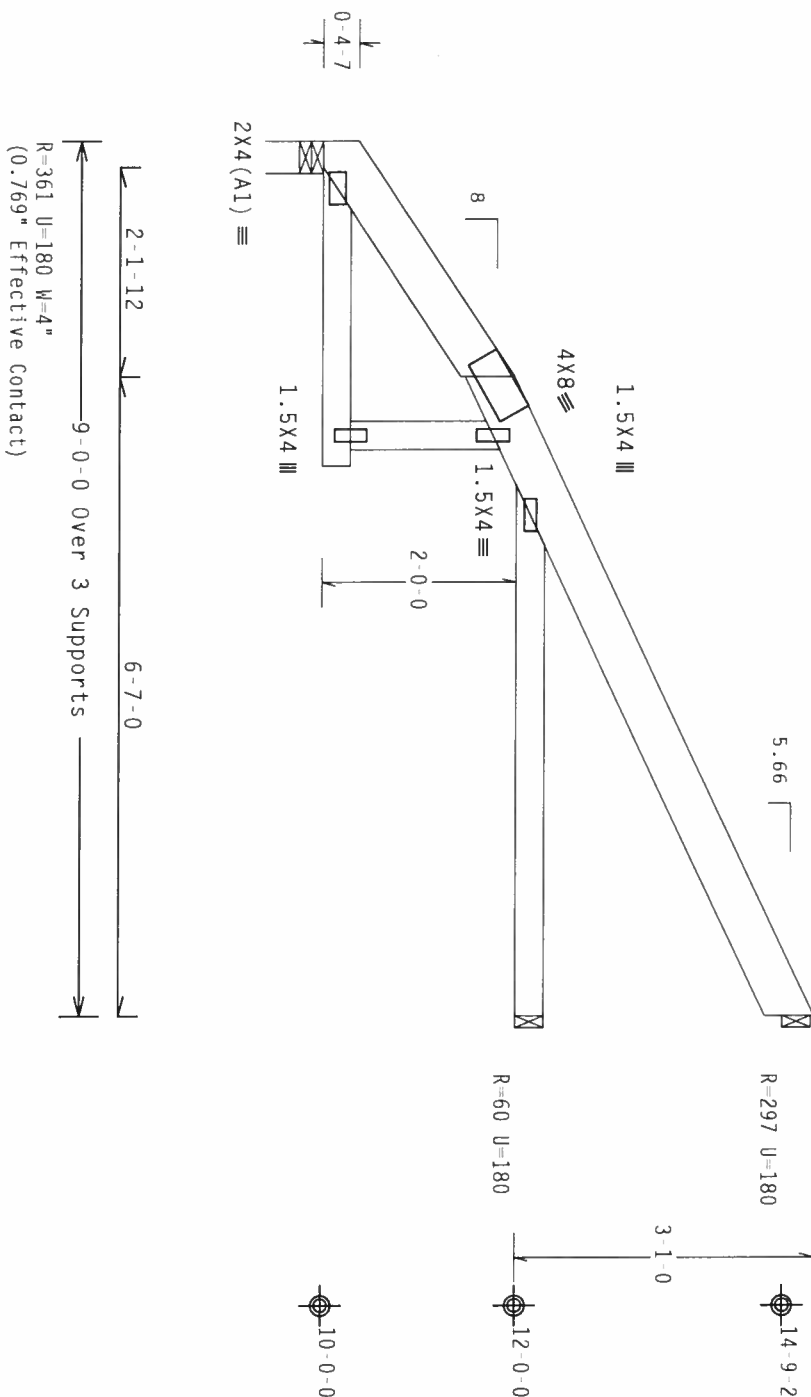
Calculated horizontal deflection is 0.12" due to live load and 0.19" due to dead load.

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

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

Wind reactions based on 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)/10(0)

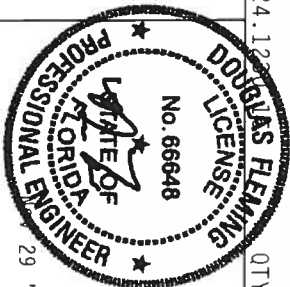
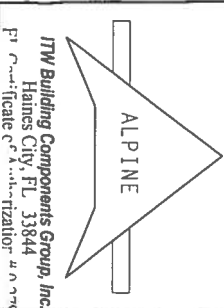
QTY: 1 FL/-/4/-/E/R/-

Scale = .5"/ft.

WARNING TRUSSES BEING EXISTING CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (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. TPI BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY VIOLATION 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 20/16/16GA (W/V/S/S) WITH 6053 GRADE 40/60 (W, K/H/S) GAL. STEEL. APPLY ANY INSPECTION TO PLATES AND TRUSS. UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604.2 DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. 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/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - -	2805
TC DL	10.0 PSF	DATE	11/29/07	
BC DL	10.0 PSF	DRW	HCUSR487	07333009
BC LL	0.0 PSF	HC-ENG	DAL/DF	
TOT.LD.	40.0 PSF	SEQN-	23291	
DUR.FAC.	1.25	FROM	AH	
SPACING	24.0"	JRFF-	ITCU487	Z01

THE FOLLOWING INFORMATION IS FOR YOUR INFORMATION ONLY

110 mph wind, 15.00 ft mean hat, 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. $I_w=1.00$ GCbf(4-) 0.18

Wind reactions based on MAFRS pressures.

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



DOUB
LICENSE
No. 66648

REF	R487 - - 2806
DATE	11/28/07

子

DRW HCUR487 07332009

STATE OF

HC-ENG DF/DF

FLORIDA
RODENT

SEON - 24446



EBRM AH



1 REF 17C114037 701

—

JKF-F-1160487-201

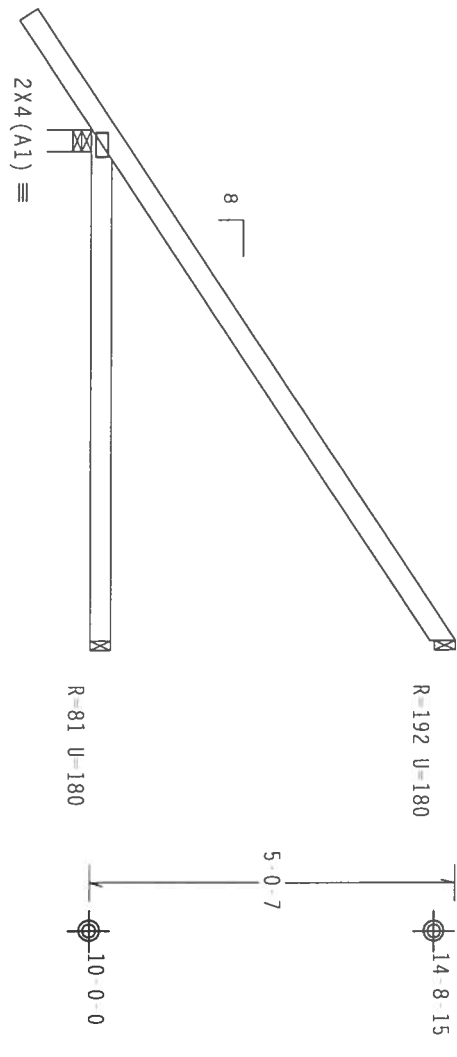
(7.165 - T35)

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.

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

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.



7'-0" Over 3 Supports
R=424 U=180 W=3.5"

PLT TYP. Wave

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

7.24.12

QTY: 8 FL/-/4/-/E/R/-

Scale = .375" / Ft.

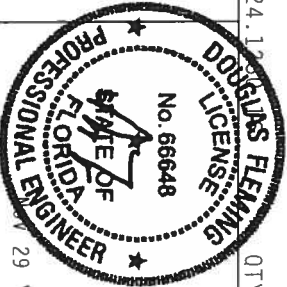
ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
Scale 0"

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RIGID BRACING OF THE TRUSS SYSTEM IS REQUIRED TO MAINTAIN THE TRUSS IN COMPRESSION. THE TRUSS SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF TRUSSES IN COMPLIANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE SUBMITTER AND USER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

****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 TRUSSES IN COMPLIANCE WITH THE DESIGN SHALL BE THE RESPONSIBILITY OF THE FABRICATOR. THE SUBMITTER AND USER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY ACPA) AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/V/S/S) ASTM A653 GRADE 40/60 (K. K/H/SS) 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 (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R487 - 2807
TC DL	10.0 PSF	DATE	11/29/07
BC DL	10.0 PSF	DRW	HCUSR487 07333019
BC LL	0.0 PSF	HC-ENG	DAL/DF
TOT.LD.	40.0 PSF	SEQN-	23077
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	DRFF-	ITCUNR7 Z01

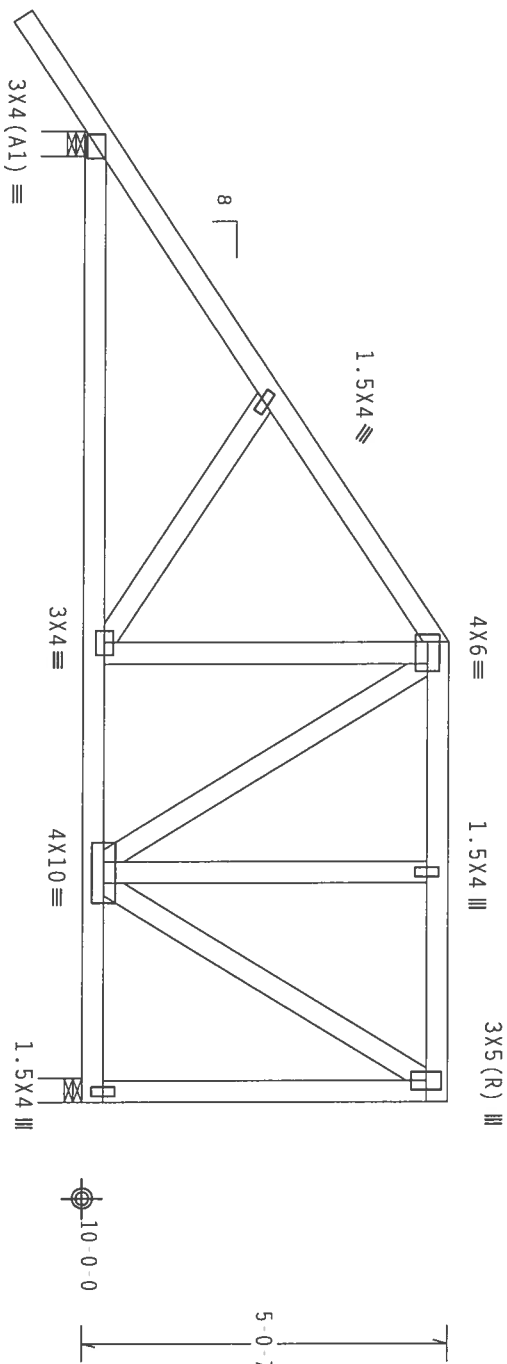
Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webs	2x4	SP	#3	

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

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.

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



LEI-6-07

Diagram of a continuous beam with three supports. The beam is divided into two equal spans of 13'-4" each. The total length is 26'-8". The beam is labeled "R=1068 U=180 W=4"

PLT TYP. wave

Design Crit: TPI-2002(STD)/FBC

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

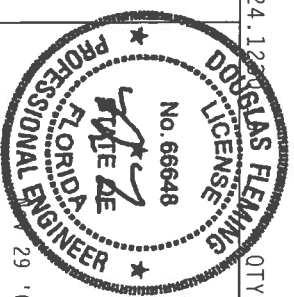
QTY:1 FL/-/4/-/E/R/-

Scale = .375"/Ft.

WARNING—FIRE, RIGGING, EQUIPMENT, CARE, IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRIVING RETIE TO DECK (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE FIRE SAFETY INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICK (WOOD) TRUSS COMPANY OF AMERICA, 6500 ENTERPRISE LANE, HADLEY, MA 01919 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Haines City FL 33844



TC LL	20.0 PSF	REF	R487 - 2808
TC DL	10.0 PSF	DATE	11/29/07
BC DL	10.0 PSF	DRW	HCUSR487 07333023
BC LL	0.0 PSF	HC-ENG	DAL/DF
TOT.LD.	40.0 PSF	SEQN-	23087
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JRFF-	1TUCu487 201

(7 165 1 1118)

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

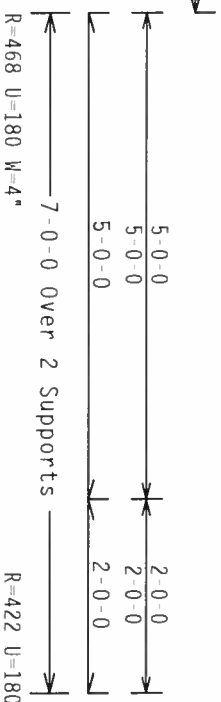
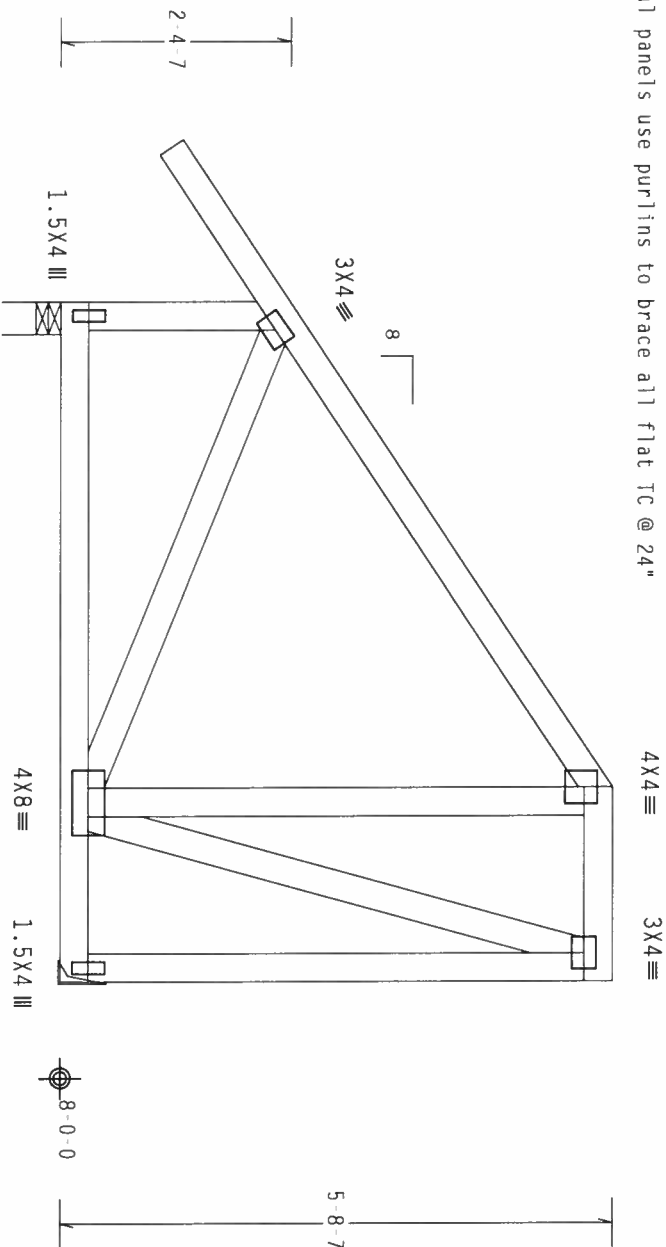
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located
within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf,
wind BC DL=5.0 psf, $I_w=1.00$ GCPI(+/-)=0.18

Wind reactions based on MMFRS pressures.

End verticals not exposed to wind pressure.

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

SPECIAL LOADS
----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -1.66 to 64 PLF at 7.00
BC - From 5 PLF at -1.66 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.00
PLT - 135 LB Conc. Load at (5.09, 13.66)
PLB - 58 LB Conc. Load at (5.09, 8.04)
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)/10(0)

OTY:2 FL/-/4/-/E/R/-

Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRING 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, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED FOR GOOD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

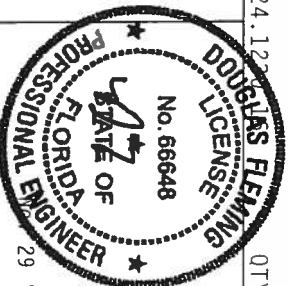
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF WDS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. ITW BCG CORRELATION PLATES ARE MADE OF 20/10/16GA (W/55/5) ASTM A653 GRADE 40/60 (H, K/55) GALV STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER GRANTING 100A.2.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING AND PLATES, ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY, FOR THE TRUSS COMPONENT DESIGNER, SHALL BE OBTAINED PRIOR TO 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

Scale 0" = 1'-0"



TC LL	20.0 PSF	REF	R487 - -	2809
TC DL	10.0 PSF	DATE	11/28/07	
BC DL	10.0 PSF	DRW	HCUSR487	07332011
BC LL	0.0 PSF	HC-ENG	DF/DF	
TOT.LD.	40.0 PSF	SEQN	24461	
DUR.FAC.	1.25	FROM	AH	
SPECIFIC	24.0"	JRFF	1TCU487	201

2 COMPLETE TRUSSES REQUIRED

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

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

Wind reactions based on MIFRS pressures.

End verticals not exposed to wind pressure.
 $3 \times 4 \equiv$

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

4X4≡ Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



Design Crit: TPI-2002(STD)/FBC

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

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

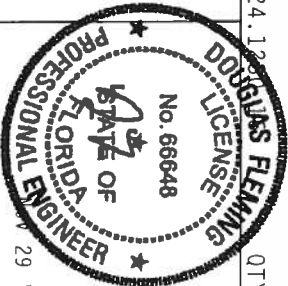
Scale = .375"/Ft.

WARNING - FRISSES REQUIRED EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC51 (BUILDING CONSTRUCTION SAFETY INFORMATION). PUBLISHED BY FBI (FIRE SAFETY INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NFPA (NATIONAL FIRE PROTECTION) OF AMERICA, 650 COMMONWEALTH LANE, ANDOVER, MA, 01910 FOR SAFETY PRACTICES PRIOR TO REFRIGERATING THESE FRICTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844



TC LL	20.0 PSF	REF	R487 - - 2810
TC DL	10.0 PSF	DATE	11/28/07
BC DL	10.0 PSF	DRW	HCUSR487 07332028
BC LL	0.0 PSF	HC-ENG	DF/DF
TOT.LD.	40.0 PSF	SEQN-	24472
DUR.FAC.	1.25	FROM	AH
SPACING	SFF ABOVE	JRFF-	1TCU487 201

(7 165 1 T54)

Top chord 2x4 SP #2 Dense
Bot chord 2x8 SP SS
Webs 2x4 SP #3 : W3 2x8 SP #2:
: W4, W6, W7 2x4 SP #2 Dense:

SPECIAL LOADS

----- LUMBER DUR. FAC. = 1.25 / PLATE DUR. FAC. = 1.25
TC - From 64 PLF at 0.00 to 64 PLF at 13.33
BC - From 20 PLF at 0.00 to 20 PLF at 13.33
BC - 9306 LB Conc. Load at 9.42
PLB - 495 LB Conc. Load at (2.06, 10.04)
PLB - 484 LB Conc. Load at (4.06, 10.04)
PLB - 1840 LB Conc. Load at (6.06, 10.04)
PLB - 1844 LB Conc. Load at (8.06, 10.04)

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. $I_w=1.00$ $GCP(+/)=0.18$

(A) #3 or better scab brace. Same size & 80% length of web
member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.
In lieu of structural panels use purlins to brace all flat TC @
24" OC.

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

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.

2 COMPLETE TRUSSES REQUIRED

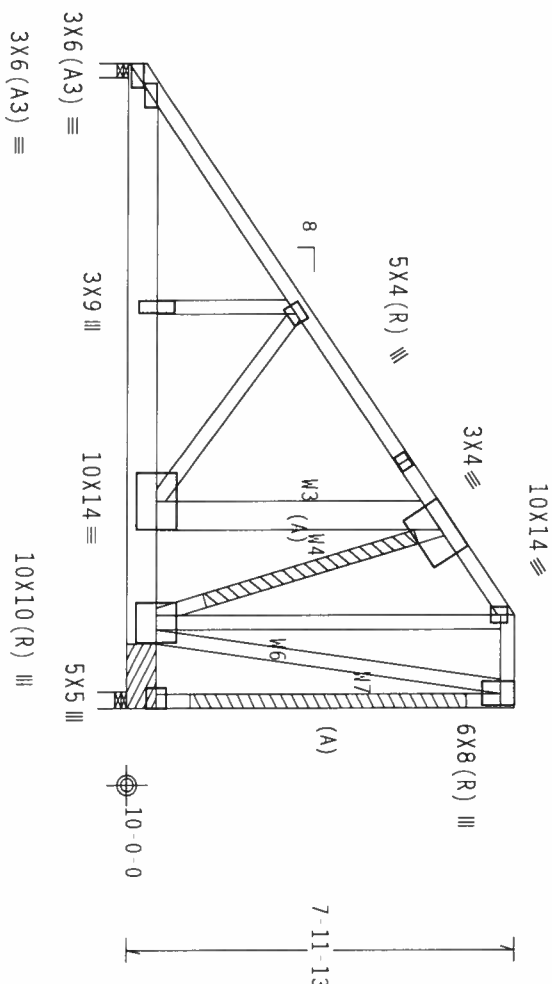
Nailing Schedule: (12d Common (0.148"x3.25", min.) nails)
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 2 Rows @ 3.50" o.c. (Each Row)
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

Bearing blocks: Nail type: 12d Common (0.148"x3.25", min.) nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
2 13.000' 1 16" 19
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRGLK0207 for additional information.

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.

4X4



3X6 (A3) =

3X6 (A3) =

3X9 III

10X14 =

10X10 (R) III

5X5 III

11-5-0

13-4-0 Over 2 Supports

R=5845 U=625 W=3.5"

R=9244 U=988 W=4"

PLT TYP. Wave

Design Crit: TP1-2002 (STD) / FBC
Cq/RT=1.00(1.25)/10(0)

7.24.1238

QTY: 1

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

Scale = .25"/ft.

WARNING TRUSSES REQUIRE EXTERIOR GABLE END FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING.
RIFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 216
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (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 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
THESE CONDITIONS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AISC AND THE
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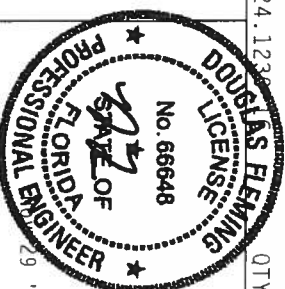
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF THE TRUSS CONSTRUCTION
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS CONSTRUCTION
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TP1 1 SEC. 2.

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844

For Certificate of Authorization #00000000



TC LL	20.0 PSF	REF	R487 - 2811
TC DL	10.0 PSF	DATE	11/29/07
BC DL	10.0 PSF	DRW	HCSR487 0733039
BC LL	0.0 PSF	HC-ENG	TCE/DF
TOT. LD.	40.0 PSF	SEQN-	23361
DUR. FAC.	1.25	FROM	AH
SPACING	SEE ABOVE	JREF-	1TCU487 Z01