

DATE 04/03/2007

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000025686

APPLICANT MELANIE RODER PHONE 623-7829
ADDRESS 248 SE NASSAU STREET LAKE CITY FL 32025
OWNER JAN & LEANNE WHITLOW PHONE 352-318-2898
ADDRESS 402 SW STEWART LOOP LAKE CITY FL 32024
CONTRACTOR MATTHEW ERKINGER PHONE 754-5555
LOCATION OF PROPERTY 47 S, R 242, L SW STEWART LOOP, 4TH ON LEFT

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 83700.00
HEATED FLOOR AREA 1674.00 TOTAL AREA 2219.00 HEIGHT 20.10 STORIES 1
FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB
LAND USE & ZONING RSF-2 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00
NO. EX.D.U. 0 FLOOD ZONE XPP DEVELOPMENT PERMIT NO. _____

PARCEL ID 25-4S-16-03170-102 SUBDIVISION MAXWELL SQUARE
LOT 2 BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES 0.60

000001360 RR0067135 Melanie Roder
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
CULVERT 07-248 BK JH Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE

ALTERNATIVE TERMITE TREATMENT _____

Check # or Cash 7150 7152

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ Foundation _____ Monolithic _____
date/app. by date/app. by date/app. by
Under slab rough-in plumbing _____ Slab _____ Sheathing/Nailing _____
date/app. by date/app. by date/app. by
Framing _____ Rough-in plumbing above slab and below wood floor _____
date/app. by date/app. by
Electrical rough-in _____ Heat & Air Duct _____ Peri. beam (Lintel) _____
date/app. by date/app. by date/app. by
Permanent power _____ C.O. Final _____ Culvert _____
date/app. by date/app. by date/app. by
M/H tie downs, blocking, electricity and plumbing _____ Pool _____
date/app. by date/app. by
Reconnection _____ Pump pole _____ Utility Pole _____
date/app. by date/app. by date/app. by
M/H Pole _____ Travel Trailer _____ Re-roof _____
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 420.00 CERTIFICATION FEE \$ 11.10 SURCHARGE FEE \$ 11.10
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$ _____
FLOOD DEVELOPMENT FEE \$ _____ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 TOTAL FEE 542.20

INSPECTORS OFFICE L. J. Wood CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVENIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Jan + LeAnne Whitlow

ck 7150
623-7829

Columbia County Building Permit Application

1360

For Office Use Only Application # 0763-85 Date Received 3/28/07 By LH Permit # 25686

Application Approved by - Zoning Official BLK Date 02.04.07 Plans Examiner AKH Date 4-2-06

File # 25686 Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES Low Density

Comments

☒ NOI ☒ EIR ☐ Deed or PA ☒ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Name of Authorized Person Signing Permit Matthew Erkinger Phone 754-5555

Address 248 SE Nassau Street Lake City FL 32025

Owner's Name Jan + LeAnne Whitlow Phone 352-318-2898

711 Address 402 SW Stewart Loop Lake City FL 32024

Contractor's Name Matthew Erkinger Phone 744-5555

Address 248 SE Nassau St Lake City FL 32025

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Mark Disosway

Mortgage Lender's Name & Address Mercantile Bank

Circle the correct power company - FL Power & Light - City Elec. - Brownsdale Valley Elec. - Florida Power & Light

Property ID Number 25-45-16-0310-102 Estimated Cost of Construction 150K

Subdivision Name Maxwell Square Lot 2 Block 1 Unit 1

Directions 47 S, Ron 242, Lon SW Stewart Loop, Lot 15, 4th down on L

Type of Construction SFD Number of Existing Dwellings on Property 0

Total acreage .60 Lot Size 45' Do you need a Current Permit or Current Waiver or Have in the past 15

Actual Distance of Structure from Property Lines - Front 50' Side 45' Side 30' Rear 89'

Total Building Height 20'-1" Number of Stories 1 Heated Floor Area 1674 Roof Pitch 6-12

TOTAL 2219

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards regulating construction in this jurisdiction.

OWNER'S AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR LIVING WITHOUT IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner, Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA
COUNTY OF COLUMBIA



Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Third
Notary Public, Inc.

Sworn to (or affirmed) and subscribed before me this

day of 20

Personally known or Produced Identification

Contractor Signature

Contractor's License Number RR0067135

Competency Card Number

NOTARY STAMP/SEAL

Linda R. Roder

Notary Signature

Notary Seal # 0

Mar. 12 2007 01:00PM PT

60-2160

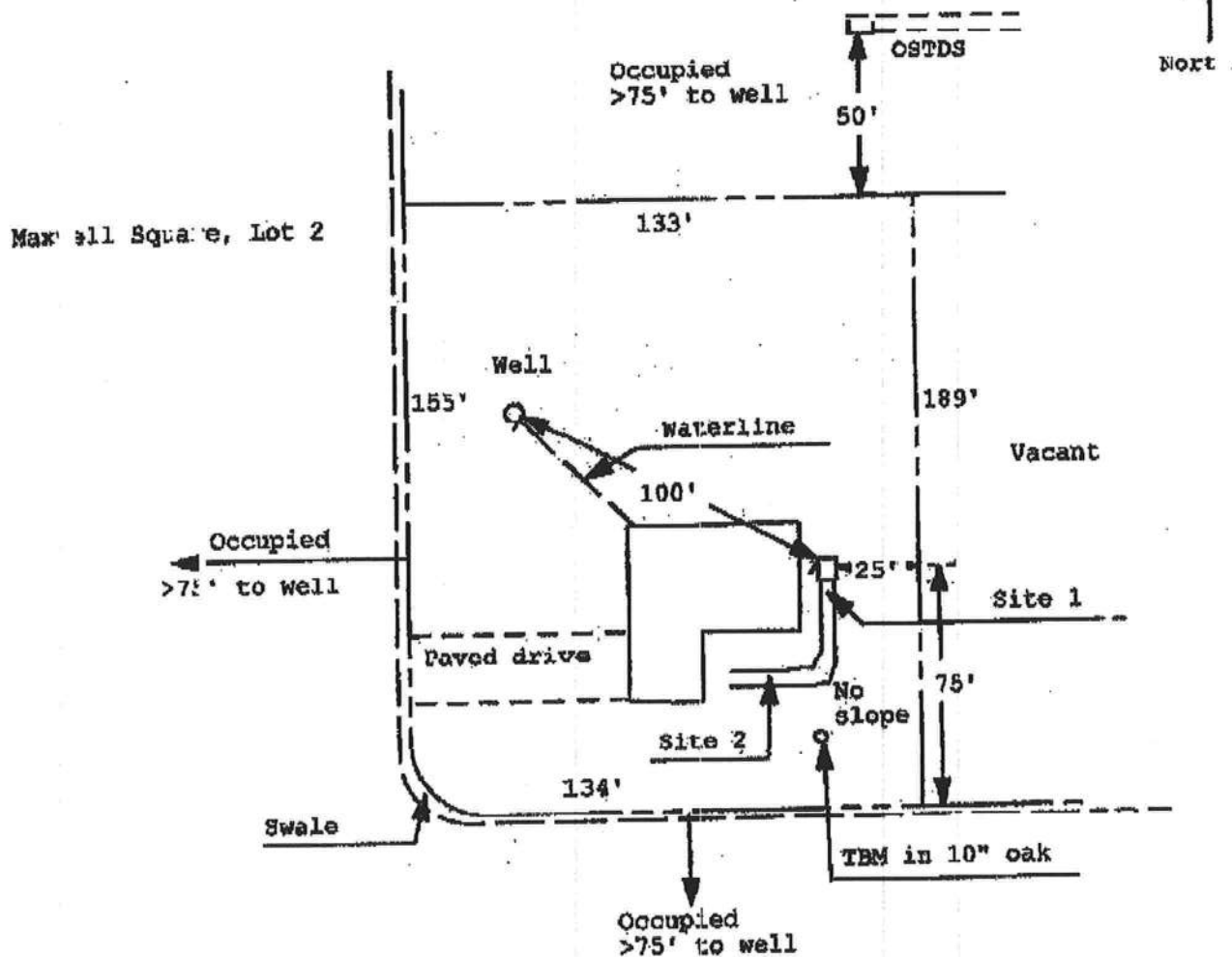
FORM: PLUMBING & ZONING

07-0385
0786?

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 12SG113289 07-248

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

WHI: LOW/CR 01-3926



1 inch = 50 feet

Site Plan Submitted By Paul J. [Signature] Date 9/11/07
Plan Approved [Signature] Not Approved [Signature] 3/10/07
By [Signature] Columbia CPHJ

Notes: _____

Letter of authorization

Notice of Authorization

I Matthew Erlinger do hereby authorize Linda or Melanie Roder

to be my representative and act on my behalf in all aspects of applying for a Septic and building permit to be located in Columbia county.

The name of the home owner is Jan + LeAnne Whitlaw.

Legal description 25-45-16-03170-102


Contractor's signature

3-20-07
Date

Sworn and subscribed before me this 20 day of March, 2004.


Notary Public

My commission expires: _____
Commission No. _____
Personally Known ☒ _____
Produced ID (Type): _____



Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

THIS INSTRUMENT WAS PREPARED BY:
TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:
TERRY McDAVID 07-76
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Inst:2007006237 Date:03/16/2007 Time:15:29

Doc Stamp-Deed : 1628.90

DC, P. Dewitt Cason, Columbia County B:1113 P:2583

Property Appraiser's
Parcel Identification No.: R03170-001

WARRANTY DEED

THIS INDENTURE, made this 15th day of March, 2007, between
ERKINGER HOME BUILDERS, INC., a corporation existing under the laws
of the State of Florida, whose post office address is 248 SE Nassau
Street, Lake City, FL 32025 and having its principal place of
business in the County of Columbia, State of Florida, party of the
first part, and JAN B. WHITLOW and LEANNE M. WHITLOW, Husband and
Wife, whose post office address is P.O. Box 3485, LAKE CITY
FL 32056, of the State of Florida, parties of
the second part,

WITNESSETH: that the said party of the first part, for and in
consideration of the sum of Ten Dollars (\$10.00), to it in hand
paid, the receipt whereof is hereby acknowledged, has granted,
bargained, sold, aliened, remised, released, conveyed and
confirmed, and by these presents doth grant, bargain, sell, alien,
remise, release, convey and confirm unto the said party of the
second part, and its heirs and assigns forever, all that certain
parcel of land lying and being in the County of Columbia and State
of Florida, more particularly described as follows:

Lot 2, MAXWELL SQUARE, a Replat of Lot 6, Block B, PLANTATION
ESTATES, a subdivision according to the plat thereof as
recorded in Plat Book 8, Page 120 of the public records of
Columbia County, Florida.

SUBJECT TO: Restrictions, easements and outstanding
mineral rights of record, if any, and taxes for the
current year.

TOGETHER with all the tenements, hereditaments and
appurtenances, with every privilege, right, title, interest and
estate, reversion, remainder and easement thereto belong or in
anywise appertaining:

TO HAVE AND TO HOLD the same in fee simple forever.

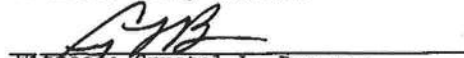
And the said party of the first part doth covenant with said

party of the second part that it is lawfully seized or said premises; that they are free of all encumbrances, and that it has good right and lawful authority to sell the same; and the said party of the first part does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

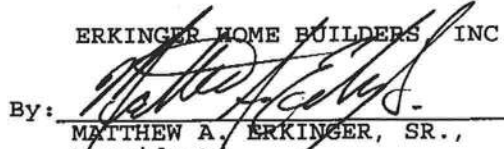
IN WITNESS WHEREOF, the party of the first part has caused these presents to be signed in its name by its President, the day and year above written.

Signed, sealed and delivered
in our presence:


Witness: Terry McDavid


Witness: Crystal L. Brunner

ERKINGER HOME BUILDERS, INC.

By: 
MATTHEW A. ERKINGER, SR.,
President

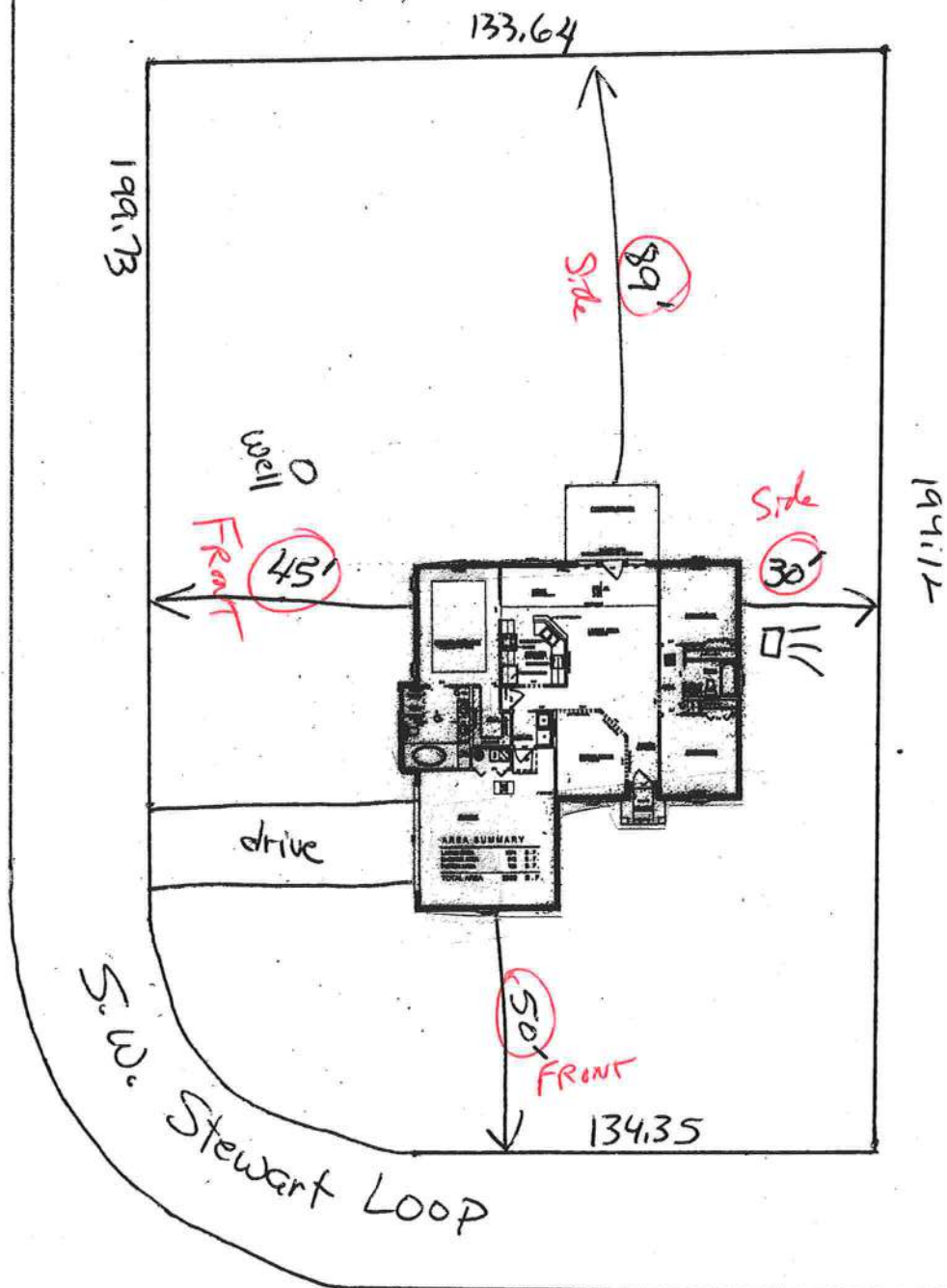
STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 15th day of March, 2007, by MATTHEW A. ERKINGER, SR., as President of ERKINGER HOME BUILDERS, INC., a State of Florida corporation, on behalf of the corporation. He is personally known to me and did not take an oath.


Notary Public
My Commission Expires: _____



Lot 2 Maxwell Square
• 60 ac



07-76

Inst:2007006242 Date:03/16/2007 Time:15:50

S.G. DC, P. DeWitt Cason, Columbia County B:1113 P:260

NOTICE OF COMMENCEMENTSTATE OF FLORIDA
COUNTY OF: COLUMBIA

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement:

1. Description of Property: LOT 2, MAXWELL SQUARE S/D MIDWEST COLUMBIA COUNTY
402 SW STEWART LOOP LAKE CITY, FL 32024
Lot 2, Maxwell Square, a Replat of Lot 6, Block B, Plantation Estates, a subdivision
recorded in Plat Book 8, Page 120, public records of Columbia County, Florida.
2. General Description of Improvements: Residential Construction

3. Name and Address of Owner: LEANNE M. WHITLOW & JAN B. WHITLOW
4001 SW 13TH STREET, #10
GAINESVILLE, FL 32608

Interest in Property: Fee Simple

Name and Address of Fee Simple Titleholder (if other than owner): N/A

4. Name and Address of Contractor: ERKINGER HOME BUILDERS, INC.
248 SE NASSAU STREET
LAKE CITY, FL 32025

5. Name and Address of Surety on payment bond, if any, and amount of such bond:

N/A

Amount of Bond: \$0

6. Name and Address of Lender:

MERCANTILE BANK
425 22nd Avenue North
St. Petersburg, FL 33704

Attention: AnnMarie Hoambrecker

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13 (1)(b), Florida Statutes:

MERCANTILE BANK
425 22nd Avenue North
St. Petersburg, FL 33704

Attention: AnnMarie Hoambrecker

8. In addition to himself, Owner designates _____ of _____ to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

OWNER: LEANNE M. WHITLOW & JAN B. WHITLOW

Leanne M. Whitlow
Jan B. Whitlow

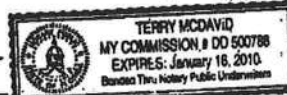
STATE OF FLORIDA
COUNTY OF: COLUMBIA

I HEREBY CERTIFY that before me personally appeared Leanne M. Whitlow & Jan B. Whitlow as Identification, to me personally known or who has produced _____ as Identification, known to me to be the person described in and who executed the foregoing instrument, and severally acknowledged the execution thereof to be his free act and deed, for the uses and purposes therein expressed.

WITNESS my hand and official seal at Lake City, said County and State, this 15th day of March, 2007.

Notary Public
Print Name: _____

My Commission Expires: _____



STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY that the above and foregoing is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS

By *Sharon Seagle*
Deputy ClerkDate 03-16-2007



Lake Cit : (386) 755 1811
 Gainesville : (352) 494 1751
 Fa : (386) 755 1885
 Toll Free 1-800-616 1707

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.
 (386) 755-3611
 State License # - JB109476
 State Certification # - JF104376

Jan & Leanne Whitlow 402 SW Stewart Loop Lake City, FL 32024

(M. Erkinger)

Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate

Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood

Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.

Celia Duplen
 Authorized Signature

3-21-07
 Date

FROM :

FAX NO. : 386-755-7022

Sep. 17 2002 01:5 PM P1

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-8" WELLS



DONALD AND MARY HALL
OWNERS

PHONE 904) 782-1234
FAX (904) 785-7022
JENNIFER H. HALL
LAKE CITY FLORIDA 32056
904 NW Main Blvd

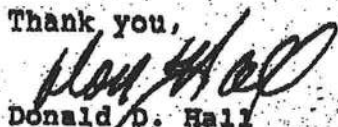
June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,


Donald D. Hall
DDH/jk

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	Whitlow	Builder:	Erkinger Home Builders
Address:	4025 SW Steward Loop	Permitting Office:	
City, State:	Lake City, FL	Permit Number:	
Owner:	Jan & LeAnn Whitlow	Jurisdiction Number:	
Climate Zone:	North		

1. New construction or existing	New	___
2. Single family or multi-family	Single family	___
3. Number of units, if multi-family	1	___
4. Number of Bedrooms	3	___
5. Is this a worst case?	No	___
6. Conditioned floor area (ft²)	1674 ft²	___
7. Glass area & type	Single Pane	Double Pane
a. Clear glass, default U-factor	0.0 ft²	147.0 ft²
b. Default tint, default U-factor	0.0 ft²	0.0 ft²
c. Labeled U-factor or SHGC	0.0 ft²	0.0 ft²
8. Floor types		
a. Slab-On-Grade Edge Insulation	R=0.0, 188.0(p) ft	___
b. N/A		___
c. N/A		___
9. Wall types		
a. Frame, Wood, Exterior	R=11.0, 1381.0 ft²	___
b. Frame, Wood, Adjacent	R=11.0, 227.0 ft²	___
c. N/A		___
d. N/A		___
e. N/A		___
10. Ceiling types		
a. Under Attic	R=30.0, 1674.0 ft²	___
b. N/A		___
c. N/A		___
11. Ducts		
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 185.0 ft	___
b. N/A		___
12. Cooling systems		
a. Central Unit	Cap: 36.0 kBtu/hr	___
	SEER: 13.00	___
b. N/A		___
c. N/A		___
13. Heating systems		
a. Electric Heat Pump	Cap: 36.0 kBtu/hr	___
	HSPF: 7.00	___
b. N/A		___
c. N/A		___
14. Hot water systems		
a. Electric Resistance	Cap: 40.0 gallons	___
	EF: 0.91	___
b. N/A		___
c. Conservation credits		___
(HR-Heat recovery, Solar		___
DHP-Dedicated heat pump)		___
15. HVAC credits		___
(CF-Ceiling fan, CV-Cross ventilation,		___
HF-Whole house fan,		___
PT-Programmable Thermostat,		___
MZ-C-Multizone cooling,		___
MZ-H-Multizone heating)		___

Glass/Floor Area: 0.09

Total as-built points: 24165

Total base points: 26759

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Kuchal Cleger

DATE: 3-27-07

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: Jan & LeAnn Whitlow

DATE: 3-28-07

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.



BUILDING OFFICIAL: _____

DATE: _____

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 4025 SW Steward Loop, Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points			
.18	1674.0	20.04	6038.5	Double, Clear	N	1.5	8.0	23.0	19.20	0.97	427.1
				Double, Clear	E	1.5	8.0	75.0	42.06	0.96	3020.8
				Double, Clear	S	1.5	8.0	4.0	35.87	0.92	132.5
				Double, Clear	W	1.5	8.0	45.0	38.52	0.96	1660.9
				As-Built Total:			147.0			5241.3	
WALL TYPES				Area X BSPM = Points		Type	R-Value		Area X SPM = Points		
Adjacent	227.0	0.70	158.9	Frame, Wood, Exterior		11.0		1381.0	1.70	2347.7	
Exterior	1381.0	1.70	2347.7	Frame, Wood, Adjacent		11.0		227.0	0.70	158.9	
Base Total:		1608.0	2506.6	As-Built Total:				1608.0		2506.6	
DOOR TYPES				Area X BSPM = Points		Type	Area X SPM = Points				
Adjacent	21.0	2.40	50.4	Exterior Wood				42.0	6.10	256.2	
Exterior	42.0	6.10	256.2	Adjacent Wood				21.0	2.40	50.4	
Base Total:		63.0	306.6	As-Built Total:				63.0		306.6	
CEILING TYPES				Area X BSPM = Points		Type	R-Value		Area X SPM X SCM = Points		
Under Attic	1674.0	1.73	2896.0	Under Attic		30.0		1674.0	1.73 X 1.00	2896.0	
Base Total:		1674.0	2896.0	As-Built Total:				1674.0		2896.0	
FLOOR TYPES				Area X BSPM = Points		Type	R-Value		Area X SPM = Points		
Slab	188.0(p)	-37.0	-6956.0	Slab-On-Grade Edge Insulation		0.0		188.0(p)	-41.20	-7745.6	
Raised	0.0	0.00	0.0								
Base Total:			-6956.0	As-Built Total:				188.0		-7745.6	
INFILTRATION				Area X BSPM = Points		Area X SPM = Points					
		1674.0	10.21	17091.5				1674.0	10.21	17091.5	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 4025 SW Steward Loop, Lake City, FL,

PERMIT #:

BASE					AS-BUILT										
Summer Base Points:		21883.2			Summer As-Built Points:				20296.5						
Total Summer Points	X	System Multiplier	=	Cooling Points	Total Component	X	Cap Ratio	X	Duct Multiplier (DM x DSM x AHU)	X	System Multiplier	X	Credit Multiplier	=	Cooling Points
21883.2		0.4266		9335.4	20296.5		1.000		(1.090 x 1.147 x 1.00)		0.263		1.000		6662.0
21883.2		0.4266		9335.4	20296.5		1.00		1.250		0.263		1.000		6662.0

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 4025 SW Steward Loop, Lake City, FL,

PERMIT #:

BASE				AS-BUILT								
GLASS TYPES												
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points					
.18	1674.0	12.74	3838.8	Double, Clear	N	1.5	8.0	23.0	24.58	1.00	565.8	
				Double, Clear	E	1.5	8.0	75.0	18.79	1.02	1437.4	
				Double, Clear	S	1.5	8.0	4.0	13.30	1.04	55.4	
				Double, Clear	W	1.5	8.0	45.0	20.73	1.01	943.2	
				As-Built Total:				147.0		3001.7		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points					
Adjacent	227.0	3.60	817.2	Frame, Wood, Exterior	11.0		1381.0	3.70	5109.7			
Exterior	1381.0	3.70	5109.7	Frame, Wood, Adjacent	11.0		227.0	3.60	817.2			
Base Total: 1608.0 5926.9				As-Built Total:				1608.0		5926.9		
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points							
Adjacent	21.0	11.50	241.5	Exterior Wood				42.0	12.30	516.6		
Exterior	42.0	12.30	516.6	Adjacent Wood				21.0	11.50	241.5		
Base Total: 63.0 758.1				As-Built Total:				63.0		758.1		
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points					
Under Attic	1674.0	2.05	3431.7	Under Attic	30.0		1674.0	2.05 X 1.00	3431.7			
Base Total: 1674.0 3431.7				As-Built Total:				1674.0		3431.7		
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points					
Slab	188.0(p)	8.9	1673.2	Slab-On-Grade Edge Insulation	0.0		188.0(p)	18.80	3534.4			
Raised	0.0	0.00	0.0									
Base Total: 1673.2				As-Built Total:				188.0		3534.4		
INFILTRATION Area X BWPM = Points				Area X WPM = Points								
1674.0 -0.59 -987.7				1674.0 -0.59 -987.7								

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 4025 SW Steward Loop, Lake City, FL,

PERMIT #:

BASE				AS-BUILT						
Winter Base Points:		14641.1		Winter As-Built Points:			15665.2			
Total Winter Points	X	System Multiplier	= Heating Points	Total Component	X	Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
14641.1		0.6274	9185.8	15665.2 15665.2		1.000 1.00	(1.069 x 1.169 x 1.00) 1.250	0.487 0.487	1.000 1.000	9536.4 9536.4

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: 4025 SW Steward Loop, Lake City, FL,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank	EF	Number of	X	Tank	X
Number of	X	Multiplier	=	Total	Volume	Bedrooms		Ratio	Multiplier
Bedrooms									
3		2746.00		8238.0	40.0	0.91	3	1.00	2655.47
									1.00
									7966.4
					As-Built Total:				7966.4

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling	+	Heating	+	Hot Water	=	Total	Cooling	+	Heating
Points		Points		Points		Points	Points		Points
9335		9186		8238		26759	6662		9536
									7966
									24165

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 4025 SW Steward Loop, Lake City, FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: 3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001360

DATE 04/03/2007 PARCEL ID # 25-4S-16-03170-102
APPLICANT MELANIE RODER PHONE 623-7829
ADDRESS 248 SE NASSAU STREET LAKE CITY FL 32025
OWNER JAN & LEANNE WHITLOW PHONE 352-318-2898
ADDRESS 402 SW STEWART LOOP LAKE CITY FL 32024
CONTRACTOR MATTHEW ERKINGER PHONE 754-5555
LOCATION OF PROPERTY 47 S, R 242, L SW STEWAT LOOP, 4TH ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT MAXWELL SQUARE 2

SIGNATURE *Melanie Roder*

INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
 - b) the driveway to be served will be paved or formed with concrete.
- Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE INSTALLATION OF THE CULVERT.

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

Amount Paid 25.00



25686

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32165
Company Business License No. JB109476 Company Phone No. 385-755-3611
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: Erkinge Home Builders Company Phone No. _____

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 402 SW Street 200N

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____
Approximate Depth of Footing: Outside _____ Inside _____ Type of Fill _____

Section 4: Treatment Information

Date(s) of Treatment(s) 6-13-07
Brand Name of Product(s) Used Bora-Terex
EPA Registration No. 44405-1
Approximate Final Mix Solution % .23
Approximate Size of Treatment Area: Sq. ft. 2219 Linear ft. 213 Linear ft. of Masonry Voids _____
Approximate Total Gallons of Solution Applied 4
Was treatment completed on exterior? ☒ Yes ☐ No
Service Agreement Available? ☒ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments Treated All Walls

Name of Applicator(s) Steve Brannon Certification No. (if required by State law) JB104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature [Signature] Date 6-13-07

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)

COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING INSPECTION

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 25-4S-16-03170-102

Building permit No. 000025686

Use Classification SFD, UTILITY

Fire: 11.16

Permit Holder MATTHEW ERKINGER

Waste: 33.50

Owner of Building JAN & LEANNE WHITLOW

Total: 44.66

Location: 402 SW STEWART LOOP, LAKE CITY, FL 32024

Date: 08/31/2007

Fanny Dicks

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID: IT5P8228Z0319090354

Truss Fabricator: Anderson Truss Company
Job Identification: 7-085--Erkinger Home Builders WHITLOW RES. -- , **
Truss Count: 37
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.24.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

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

Details: BRCLBSUB-TCFILLER-BCFILLER-REPBFCIL-

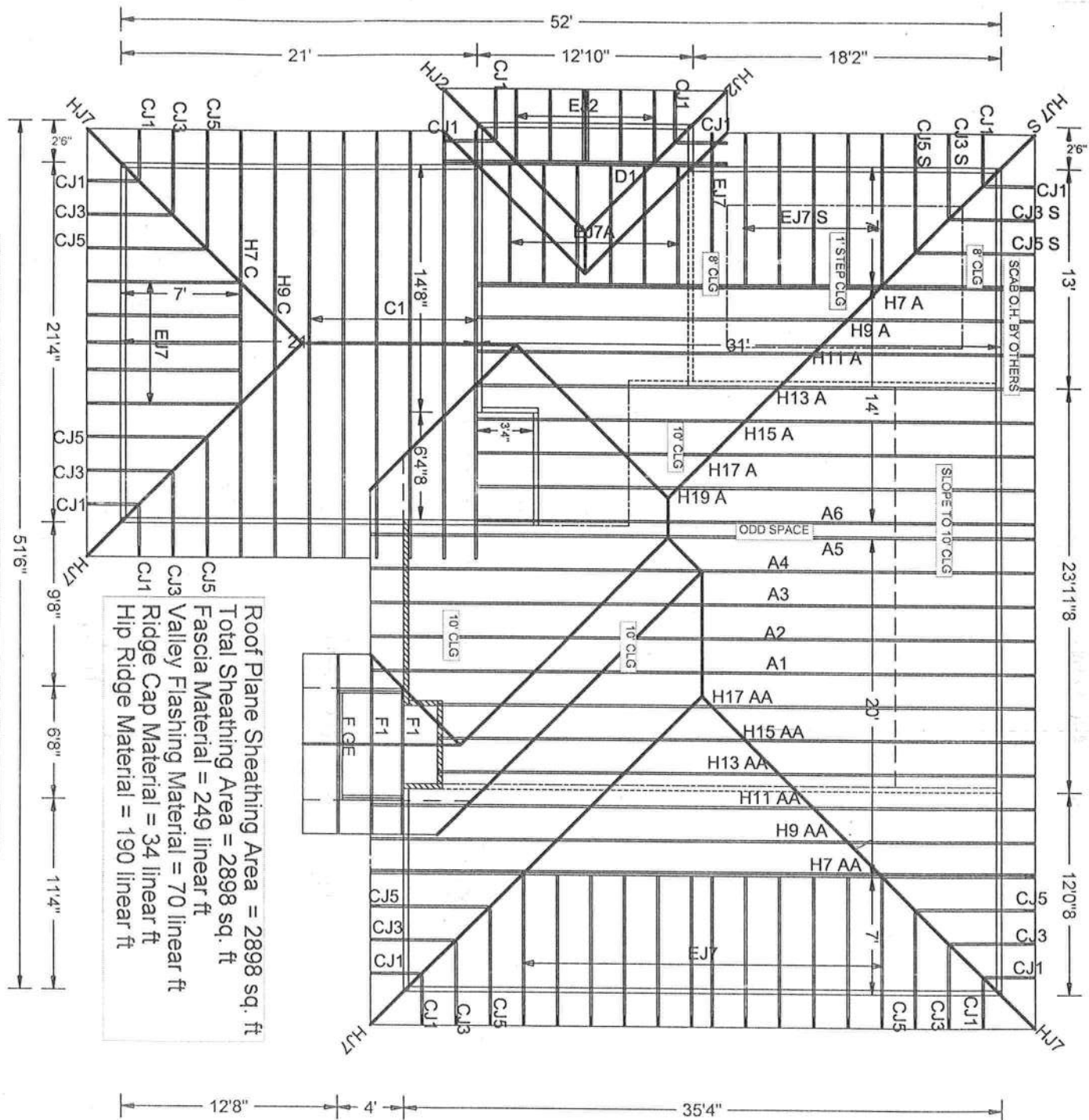
Seal Date: 03/19/2007

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

#	Ref	Description	Drawing#	Date
1	06931--H7 A		07075073	03/16/07
2	06932--H7 AA		07075074	03/16/07
3	06933--H9 AA		07075060	03/16/07
4	06934--H11 AA		07075061	03/16/07
5	06935--H13 AA		07075075	03/16/07
6	06936--H15 AA		07075076	03/16/07
7	06937--H17 AA		07075077	03/16/07
8	06938--A1		07075078	03/16/07
9	06939--A2		07075079	03/16/07
10	06940--A3		07075080	03/16/07
11	06941--A4		07075081	03/16/07
12	06942--A5		07075082	03/16/07
13	06943--A6		07075083	03/16/07
14	06944--H19 A		07075084	03/16/07
15	06945--H17 A		07075085	03/16/07
16	06946--H15 A		07075086	03/16/07
17	06947--H13 A		07075087	03/16/07
18	06948--H11 A		07075062	03/16/07
19	06949--H9 A		07075088	03/16/07
20	06950--H7 C		07075089	03/16/07
21	06951--H9 C		07075063	03/16/07
22	06952--C1		07075090	03/16/07
23	06953--D1		07075091	03/16/07
24	06954--F1		07075064	03/16/07
25	06955--F GE		07075092	03/16/07
26	06956--EJ7		07075065	03/16/07
27	06957--CJ5		07075066	03/16/07
28	06958--HJ7		07075093	03/16/07
29	06959--CJ3		07075067	03/16/07
30	06960--CJ1		07075094	03/16/07
31	06961--HJ2		07075095	03/16/07
32	06962--HJ7 S		07075096	03/16/07
33	06963--EJ7A		07075068	03/16/07
34	06964--EJ2		07075069	03/16/07
35	06965--EJ7 S		07075070	03/16/07
36	06966--CJ5 S		07075071	03/16/07

#	Ref	Description	Drawing#	Date
37	06967--CJ3 S		07075072	03/16/07





ERKINGER HOMES WHITLOW RES.
 JOB#7-085 3/16/07 JFB

JOB DESCRIPTION:: Erkinger Home Builders
 /: WHITLOW RES.

JOB NO:
 7-085

PAGE NO:
 1 OF 1

Top chord 2x6 SP #2 :T1 2x8 SP #1 Dense:
Bot chord 2x6 SP #2 :B1 2x4 SP #2 Dense:
Webs 2x4 SP #3 :W7, W11 2x4 SP #2 Dense:

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"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.

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

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Calculated horizontal deflection is 0.18" due to live load and 0.28" due to dead load.

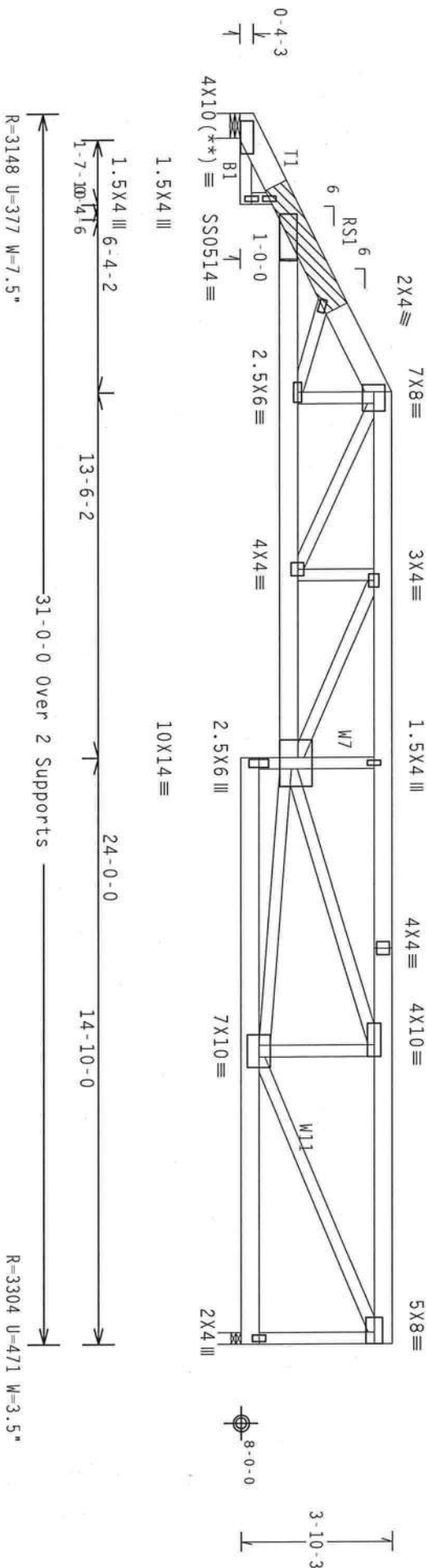
In lieu of structural panels or rigid ceiling use purtins to brace TC @ 24" OC, BC @ 24" OC.

RS1 (2) 2x8X3-5-7 SP #1 Dense Top chord scabs centered 3-5-14 from left end. Attach one to each outer face of chord with (4) rows of 12d Common (0.148"x3.25", min.), nails @ 12" o.c., staggered 6".

SPECIAL LOADS

-----LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25
TC - From 62 PLF at 0.00 to 62 PLF at 7.00
BC - From 62 PLF at 7.00 to 62 PLF at 31.00
BC - From 20 PLF at 0.66 to 20 PLF at 2.29
BC - From 20 PLF at 2.29 to 20 PLF at 16.17
TC - From 434 LB Conc. Load at 7.06 to 434 LB Conc. Load at 16.17
PLT - 198 LB Conc. Load at (9.06,11.81), (13.06,11.81)
PLT - 182 LB Conc. Load at (17.06,11.81)
PLT - 197 LB Conc. Load at (19.06,11.81), (23.06,11.81)
BC - 450 LB Conc. Load at (27.06,11.81), (29.06,11.81)
PLB - 61 LB Conc. Load at (9.06,9.04), (13.06,9.04)
PLB - 77 LB Conc. Load at (17.06,8.04), (21.06,8.04)
PLB - 91 LB Conc. Load at (19.06,8.04), (23.06,8.04)
(25.06,8.04), (27.06,8.04), (29.06,8.04)

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



PLT TYP. 18 Gauge HS.Wave

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

7.24.1230

QTY:1

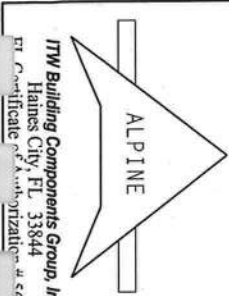
FL/-/4/-/-/R/-

Scale = .25"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RECS (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. 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.

CONNECT TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE 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. DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



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



TC LL	20.0 PSF	REF	R8228- 6931
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07075073
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	21260
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

Top chord 2x4 SP #2 Dense :T2, T3 2x6 SP #2:
Bot chord 2x6 SP #2
Webs 2x4 SP #3

2 COMPLETE TRUSSES REQUIRED

Nailing Schedule: (12d Common (0.148"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, 15.00 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

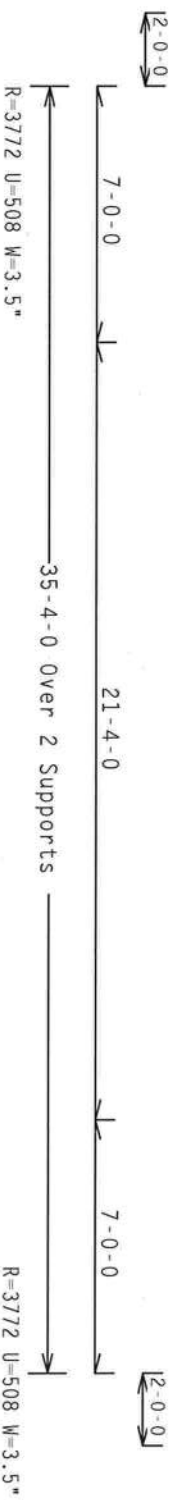
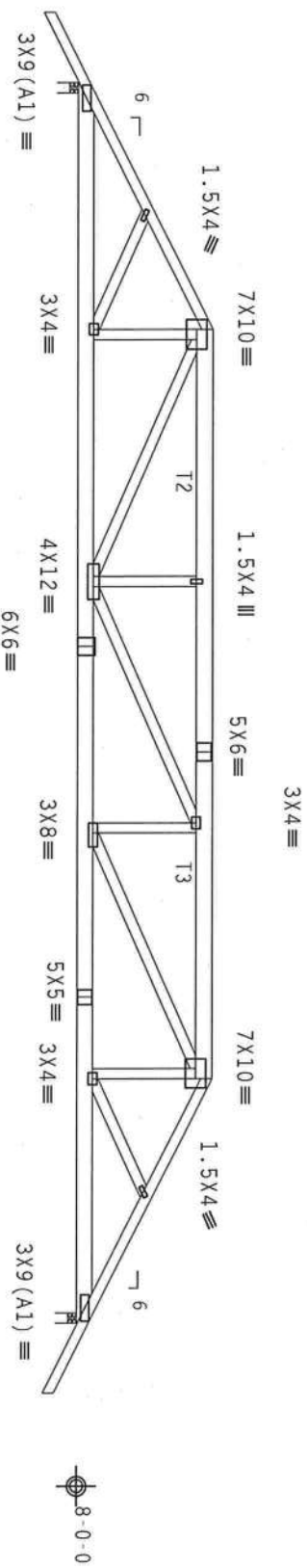
Wind reactions based on MMFRS pressures.

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

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

SPECIAL LOADS

TC - From	DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	62 PLF at -2.00 to 62 PLF at 7.00
TC - From	62 PLF at 7.00 to 62 PLF at 28.33	
TC - From	62 PLF at 28.33 to 62 PLF at 37.33	
BC - From	4 PLF at -2.00 to 4 PLF at 0.00	
BC - From	20 PLF at 0.00 to 20 PLF at 35.33	
BC - From	4 PLF at 35.33 to 4 PLF at 37.33	
TC - 434 LB Conc. Load at 7.06, 28.27		
TC - 182 LB Conc. Load at 9.06, 11.06, 13.06, 15.06, 17.06		
18.27, 20.27, 22.27, 24.27, 26.27		
BC - 450 LB Conc. Load at 7.00, 28.33		
BC - 77 LB Conc. Load at 9.06, 11.06, 13.06, 15.06, 17.06		
18.27, 20.27, 22.27, 24.27, 26.27		



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

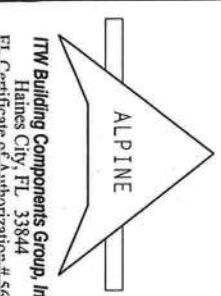
OTV:1 FL/-/4/-/R/-

Scale =.1875"/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, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL 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 MDS (NATIONAL DESIGN SPEC. BY AIA/PJA) AND TPI. ITW BCG HAS BEEN ADVISED OF THE DESIGN OF THIS TRUSS AND HAS REVIEWED THE DESIGN FOR COMPLIANCE WITH THE DESIGN. ANY INSPECTION OF PLATES FOLLOWED BY (4) SHALL BE PER ANNEA A3 OF TPI-2002 SEC.2. 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 ANSI/TPI 1 SEC. 2.



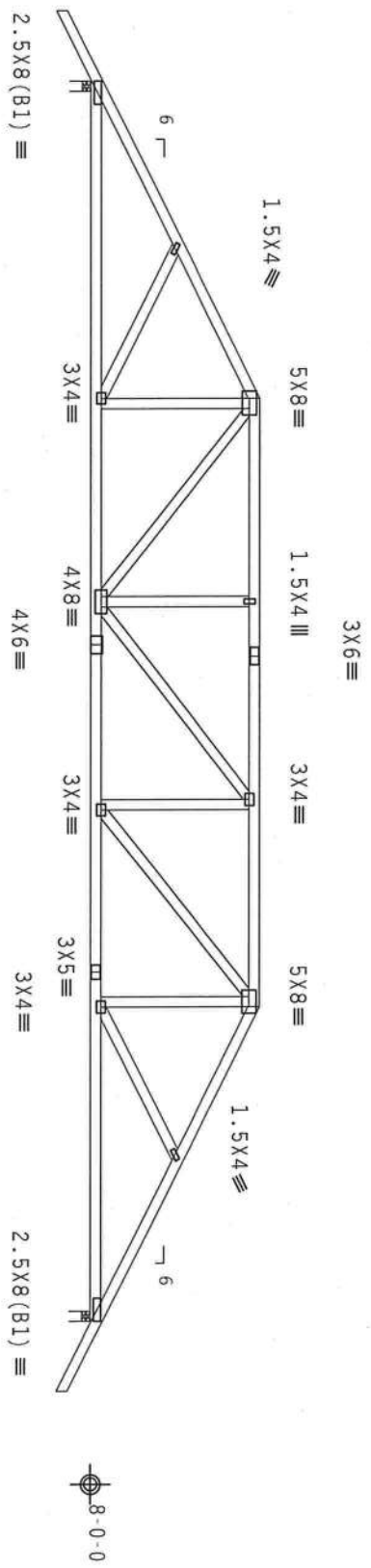
ITW Building Components Group, Inc.
Haines City, FL 33844
ET Certificate of Authorization # 567

TC LL	20.0 PSF	REF R8228- 6932
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075074
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 21222
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5P8228Z03

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

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.

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. $I_w=1.00$ $G_{CPI}(+/-)=0.18$
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

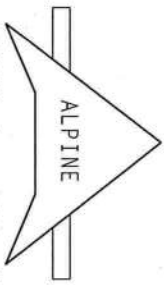


9'-0-0 17'-4-0 9'-0-0
35'-4-0 Over 2 Supports
R=1589 U=180 W=3.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Q/RT=1.00(1.25)/10(0) 7.24.1230 E COLLINS QTY:1 FL/-/4/-/R/- Scale = .1875"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REPAIRS TO TRUSSES MUST BE MADE BY THE ORIGINAL DESIGNER OR A QUALIFIED TRUSS ENGINEER. NORTH ALE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICKA (GORD) TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. ITW BCG CONNECTIONS 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 AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 13.5. A SEAL ON THIS DESIGN INDICATES THE DESIGNER'S 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
www.alpinebuilding.com



TC LL	20.0 PSF	REF R8228- 6933
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075060
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEON- 21080
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	UREF- 1T5P8228203

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



Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense :B3 2x6 SP #2:
Webs 2x4 SP #3 :W16 2x4 SP #2 Dense:

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.19" due to live load and 0.30" due to dead load.

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

Calculated vertical deflection is 0.39" due to live load and 0.61" due to dead load at X = 6-3-8.

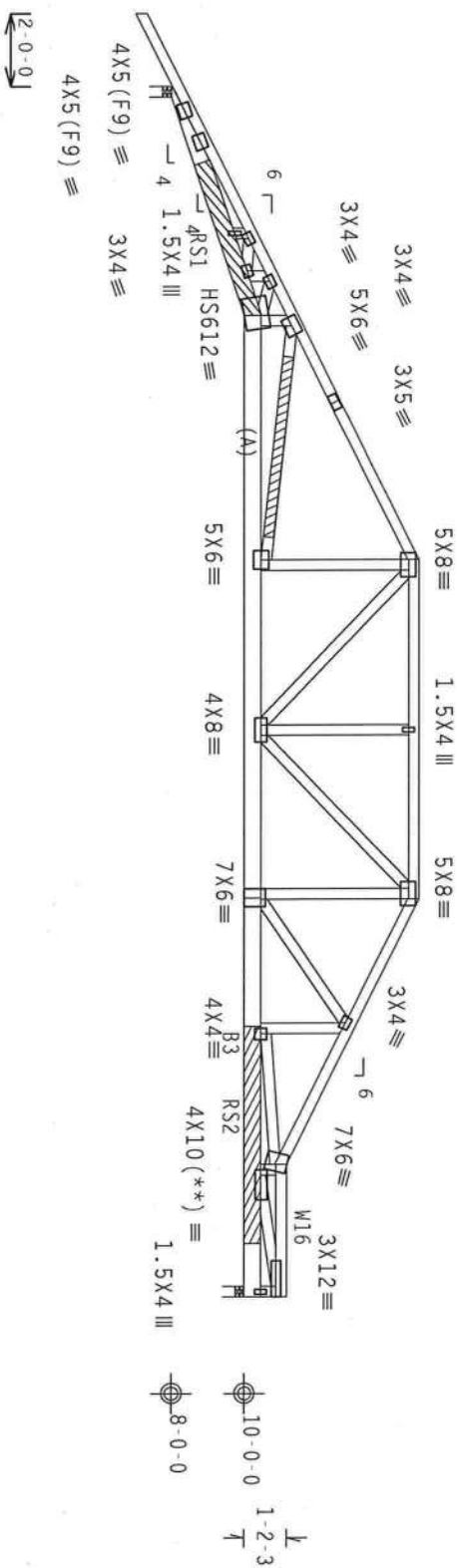
(**) 1 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

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

(A) SP #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. Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

(2) 2x6x4-6-0 SP #2 Bottom chord scabs centered 4-2-12 from left end. Attach one to each outer face of chord with (3) rows of 12d Common (0.148"x3.25",min.)_nails @ 12" O.C., staggered 6".

(1) 2x6x6-0-0 SP #2 Bottom chord scab centered 28-10-3 from left end. Attach to one face of chord with (3) rows of 12d Common (0.148"x3.25",min.)_nails @ 6" O.C., staggered 3".



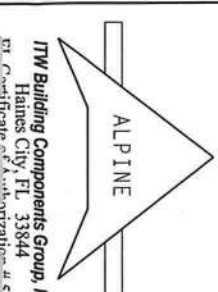
6-3-8 13-0-0 9-4-0 27-0-8 7-4-0 3-8-0
R=1523 U=180 W=3.5" R=1363 U=180 W=3.5"

PLT TYP. 20 Gauge HS.Wave
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0) 7.24.123

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION FROM THE MANUFACTURER. THE MANUFACTURER'S DESIGN INFORMATION, NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6000 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ITW BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE 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. 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.



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



QTY: 1	FL/-/4/-/1-R/-	Scale = .1875"/ft.
TC LL	20.0 PSF	REF R8228- 6935
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075075
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEON- 21094
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5P8228203

Wind reactions based on MWFRS pressures.

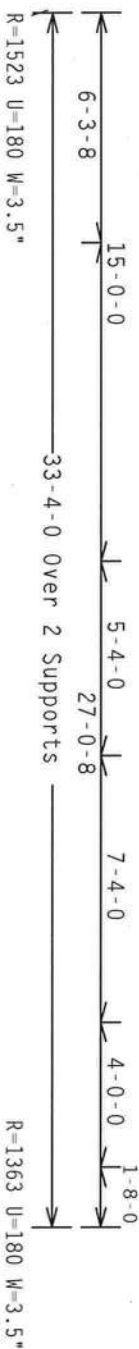
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

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

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

(2) 2x6x4-6-0 SP #2 Bottom chord scabs centered 4-2-12 from left end. Attach one to each outer face of chord with (3) rows of 12d_Common_(0.148"x3.25",_min_) nails @ 12" O.C., staggered 6".



Scale = .1875"/Ft.



****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, LTM 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 OF TRUSSES.
DESIGN CONFORMANCE WITH ALL APPLICABLE PROVISIONS OF THE NATIONAL DESIGN CODE, BY AEROSPACE AND THE
LTM BCG

SECTION CONTRACTS AND THE SPECIFICATIONS OF MATERIALS SHALL BE APPLIED TO ALL CONNECTOR PLATES AND RODS OF 20/18/160A (M-H/SS/R) WITH A655 GRADE 40/60 (K/H-SS) GALV. STEEL. APPLY TO EACH FACE OF THUS AN UNLESS OTHERWISE LOCATED ON THIS SECTION, POSITION PER DRAWINGS 1606-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA AS OF TPI-1-2002 SEC.3. A SEAL ON THE DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLLEY FOR THE THOUS COMPONENTS IN DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 6936
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075076
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	21106
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

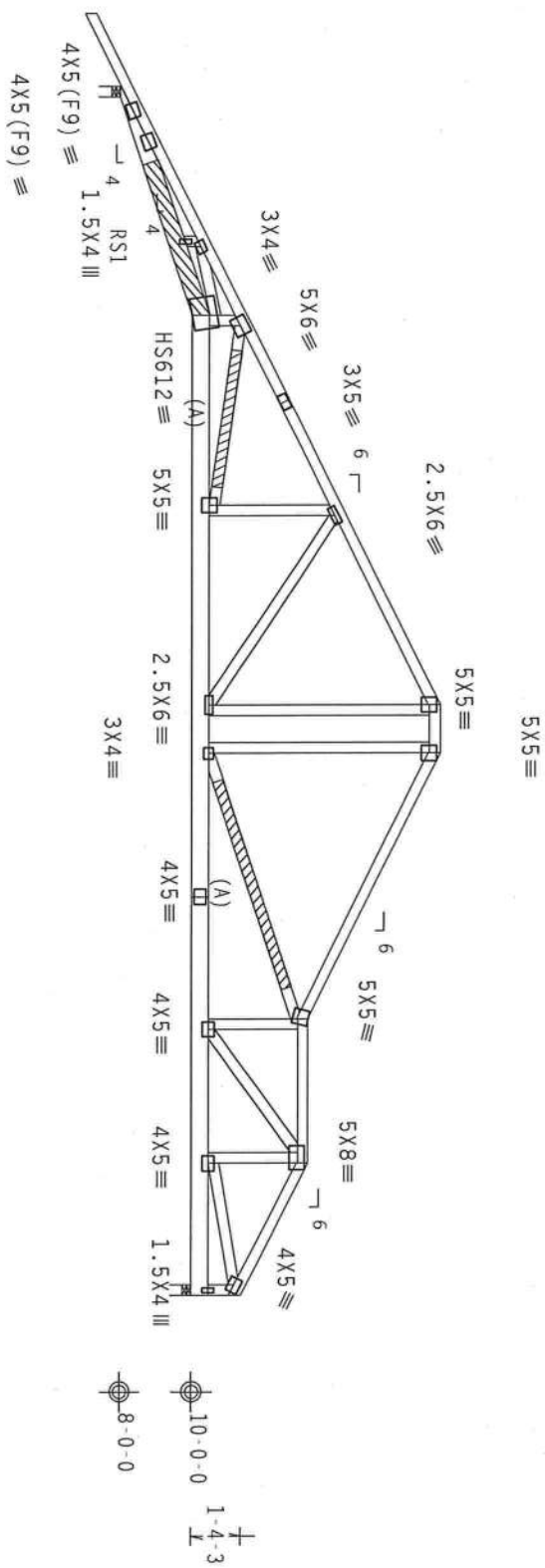
Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

(A) SP #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.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

RS1

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. $I_w=1.00$ $G_{Cp1}(+/-)=0.18$
Calculated horizontal deflection is 0.17" due to live load and 0.27" due to dead load.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
(2) 2x6x4-6-0 SP #2 Bottom chord scabs centered 4-2-12 from left end. Attach one to each outer face of chord with (3) rows of 12d Common (0.148"x3.25",min.)nails @ 12" O.C., staggered 6".



6'-3'-8" 17'-0'-0" 1'-4'-0" 27'-0'-8" 7'-4'-0" 4'-0'-0" 4'-0'-0" 3'-8'-0"
33'-4'-0" Over 2 Supports
R=1523 U=180 W=3.5"
R=1363 U=180 W=3.5"

PLT TYP. 20 Gauge HS,Wave

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

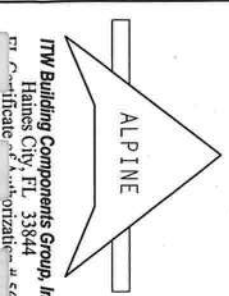
7.24.1230

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

Scale = .1875"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WCA (WOOD TRUSS COUNCIL OF AMERICA), 6900 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. TITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI. TITW BCG DESIGNER'S SIGNATURE: JAMES COLLINS JR. N. 52262 DATE: 03/16/07



ITW Building Components Group, Inc.
Haines City, FL 33844
Tel: 888.444.4444



TC LL	20.0 PSF	REF	R8228- 6937
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075077
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	21113
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

Wind reactions based on MMFRS pressures.

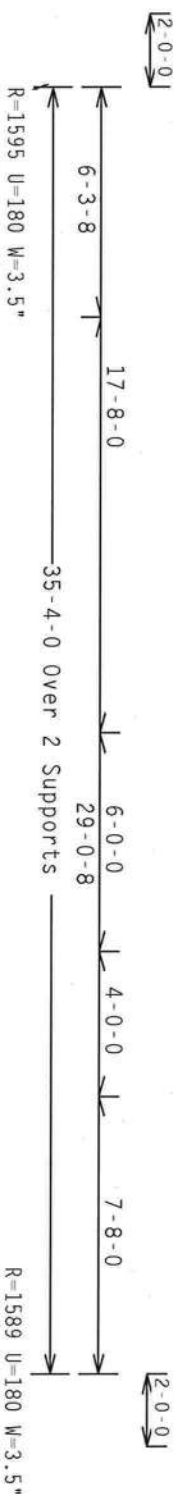
110 mph wind, 15.00 ft mean hgt., ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, Wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $GCF(+/-)=-0.18$

Calculated horizontal deflection is 0.17" due to live load and 0.26" due to dead load.

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

(1) 2x4x3-6-0 SP #2 Dense Top chord scab centered 5-0-8 from left end. Attach to one face of chord with (2) rows of 2x2d_Common_(0.148"x3.25", min) _nails @ 6" O.C., staggered 3".

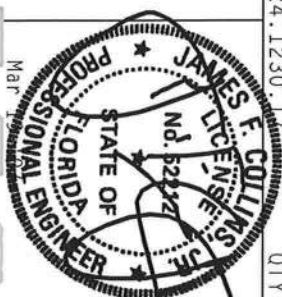
(2) 2x6x4-6-0 SP #2 Bottom chord scabs centered 4-2-12 from left end. Attach one to each outer face of chord with (3) rows of 2x2d_Common_(0.148"x3.25", min) _nails @ 12" O.C., staggered 6".



Scale = .1875"/Ft.

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

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/TP1 1 SEC. 2.



FL / - / 4 / - / - / K / -		Scale = .1875" / 1 ft.
TC LL	20.0 PSF	REF R8228- 6938
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075078
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 21119
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5P8228203

Wind reactions based on MNFRS pressures. Calculated horizontal deflection is 0.18" due to live load and 0.28" due to dead load.

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

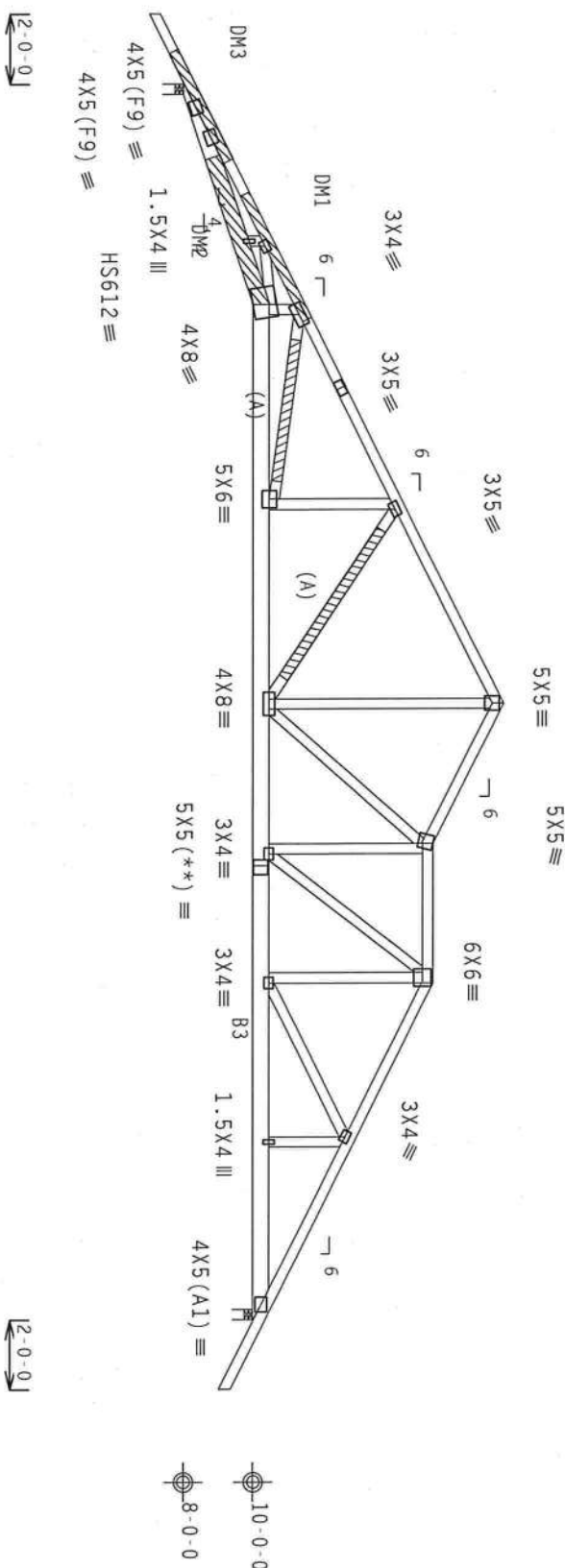
(1) 2x4x4-0-0 SP #2 Dense Top chord scab centered 5-0-0 from left end. Attach to one face of chord with (2) rows of 12d_Common_(0.148"x3.25",_min.)_nails @ 6" 0.C., staggered 3".

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

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

(A) SP #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. Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

(2) 2x6x4-6-0 SP #2 Bottom chord scabs centered 4-2-12 from left end. Attach one to each outer face of chord with (3) rows of 12d Common (0.148"x3.25",min.)nails @ 12" O.C., staggered 6".



6-3-8 17-8-0 4-0-0 29-0-8 4-0-0 9-8-0

35-4-0 Over 2 Supports

R=1595 U=180 W=3.5

R=1589 U=180 W=3.5

PLT TYP.	20 Gauge HS.Wave	Design Cr't:	TPI-2002(STD)/FBC Cq/RT=1.00(1.25)
----------	------------------	--------------	---------------------------------------

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

Scale = .1875"/Ft.

*****WARNING***** PRICES REQUIRE EXHIBIT SPECIFIC CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC51 (BUILDING COMPONENT EXISTENCE INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND (800) TRUSS CENTER OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SELLER'S PRACTICES AND PRICE TO PERFORM THESE FUNCTIONS. 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. ITW BCG, INC. SHALL NOT

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

CONNECTOR PLATES ARE MADE OF 20/18/16GA (H.M./SS/K) ASTM A653 GRADE 40/60 (H. K/H.SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND - UNLESS OTHERWISE LOCATED ON THIS DESIGN - POSITION PER DRAWINGS 16GA-2

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	R8228- 6939
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075079
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	21126
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense :B3 2x6 SP #2:
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

(A) SP #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.

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

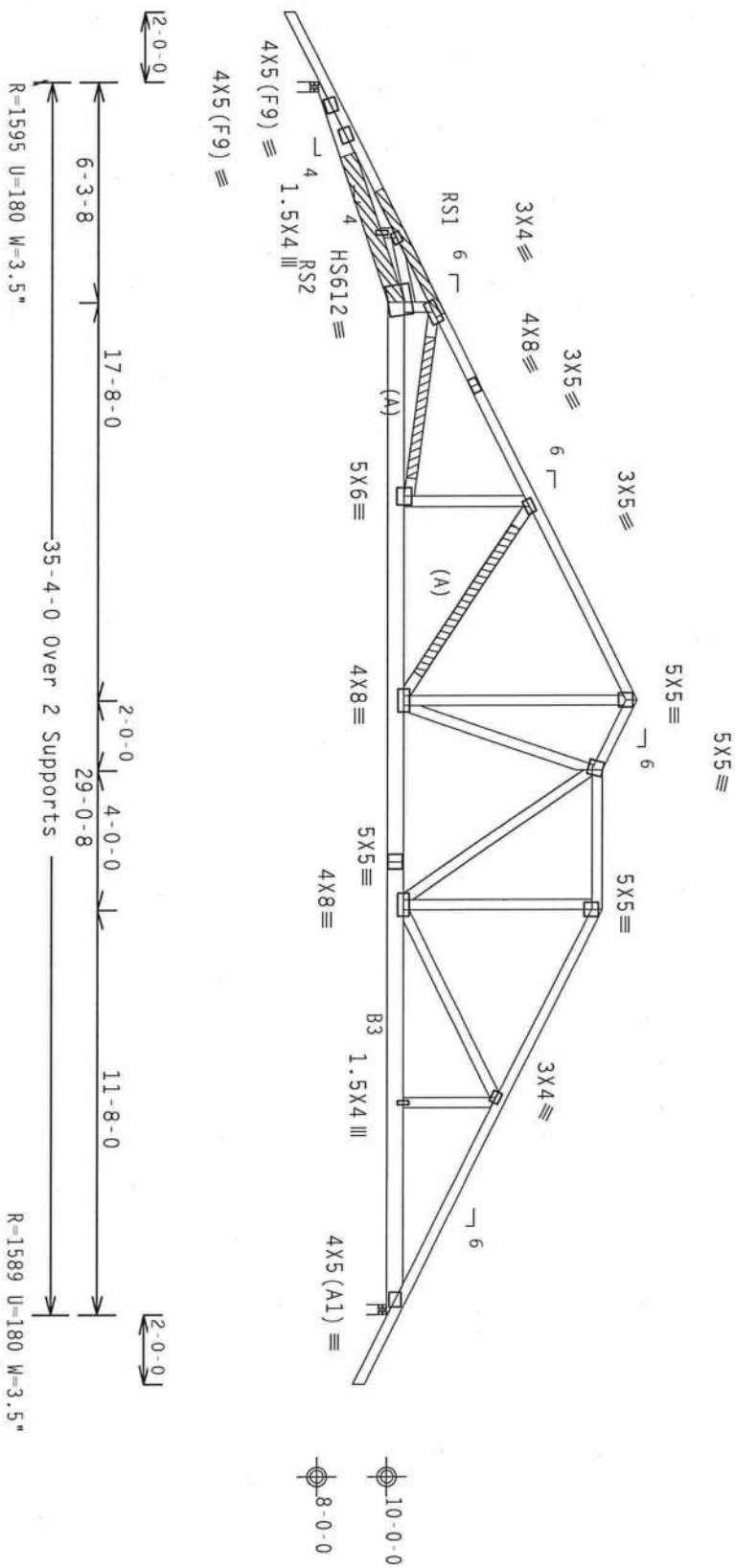
(2) 2x6x4-6-0 SP #2 Bottom chord scabs centered 4-2-12 from left end. Attach one to each outer face of chord with (3) rows of 12d Common (0.148"x3.25",min.) nails @ 12" O.C., staggered 6".

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

Calculated horizontal deflection is 0.18" due to live load and 0.28" due to dead load.

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

(1) 2x4x4-0-0 SP #2 Dense Top chord scab centered 4-11-7 from left end. Attach to one face of chord with (2) rows of 12d Common (0.148"x3.25",min.) nails @ 6" O.C., staggered 3".



PLT TYP. 20 Gauge HS.Wave

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

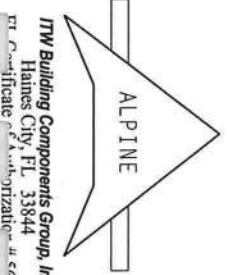
QTY:1 FL/-/4/-/-/R/-

Scale = .1875"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RECS (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE TRUSS PANEL INSTITUTE, 6200 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 NDS (NATIONAL DESIGN SPEC. BY AIA/PAI AND TPI. CONNECTOR PLATES ARE MADE OF 70/18/16GA (W/H/SS/RS) ASTM A653 GRADE 40/90 (W. K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALL SPACING SHALL BE ACCEPTABLE TO THE DESIGNER. THIS DESIGN IS THE PROPERTY OF ITW BCG, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. 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.



ITW Building Components Group, Inc.
Haines City, FL 33844
P.O. Box 1000
Haines City, FL 33844



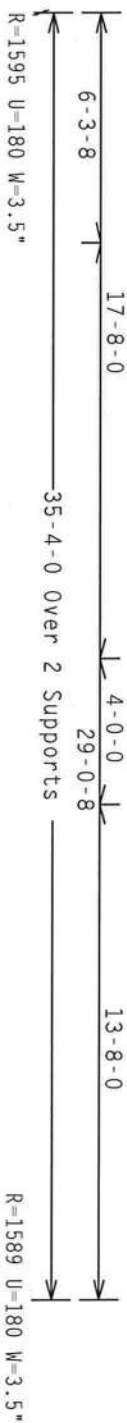
TC LL	20.0 PSF	REF R8228- 6940
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075080
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 21131
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5P8228203

Wind reactions based on MWFRS pressures.

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

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

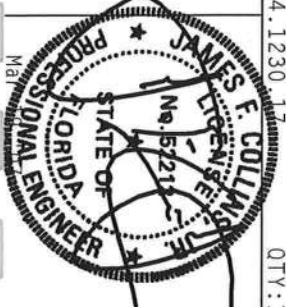
(1) 2x4X3-0-0 SP #2 Dense Top chord scab centered 5-0-4 from left end. Attach to one face of chord with (2) rows of 12d_Common (0.148"x3.25", min.), nails @ 6" O.C., staggered 3".



Scale = .1875"/Ft.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DELAYATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TROSS IN CONFORMANCE WITH THE OR FABRICATION, HANDLING, SHIPPING, INSTALLING & DRAGING OF TROSSES, DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN CODE BY AERIAL AND THE

CONCRETE REINFORCING PLATES ARE MADE OF 20/20/1604 (A1/155/57) ASTM A663 GRADE 40/60 (A₁ X/45) STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI-1-2020 SEC.3. A SEAL ON THE DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOW, THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 6941
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075061
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	21138
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #1 Dense :B3 2x6 SP #2:
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

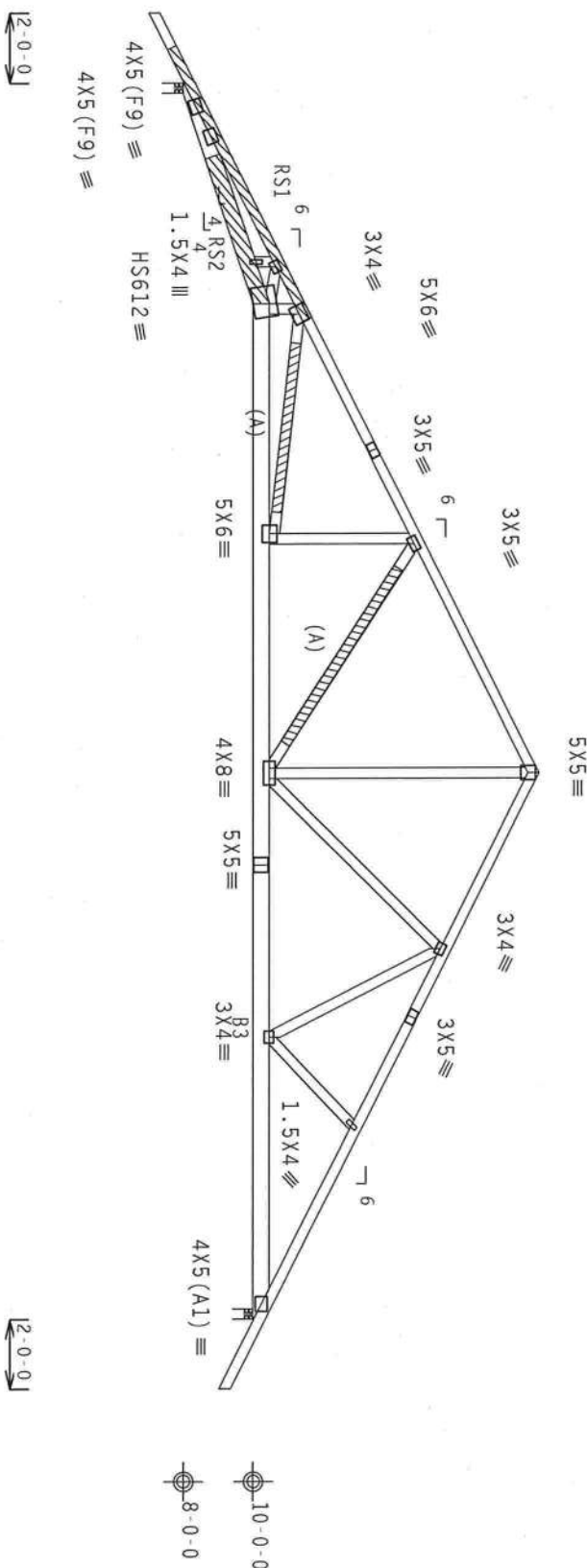
(A) SP #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3".min.)nails @ 6" OC.

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

(1) 2x4x8-7-13 SP #2 Dense Top chord scab centered 2-11-1 from left end. Attach to one face of chord with (2) rows of 12d Common (0.148"x3.25".min.)_nails @ 6" O.C., staggered 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. IW=1.00 gcpl(+/-)=0.18
Calculated horizontal deflection is 0.19" due to live load and 0.29" due to dead load.
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.
Calculated vertical deflection is 0.41" due to live load and 0.62" due to dead load at X = 6-3-8.

(2) 2x6x4-6-0 SP #2 Bottom chord scabs centered 4-2-12 from left end. Attach one to each outer face of chord with (3) rows of 12d Common (0.148"x3.25".min.)_nails @ 12" O.C., staggered 6".



PLT TYP. 20 Gauge HS.Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1230

OTY:1

FL/-/4/-/R/-

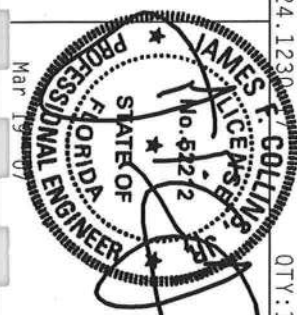
Scale = .1875"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO MCSI (PROVIDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WICKA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA & TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (H/HS/VS) ASTM A653 GRADE 40/50 (4. KIN.55 GALV. STEEL. APPLY ALL APPLICABLE CODES, STANDARDS, SPECIFICATIONS, AND REQUIREMENTS OF THIS DESIGN. POSITION PER DRAWINGS 160A-2. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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



TC LL	20.0 PSF	REF R8228- 6942
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075082
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 21143
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5P8228Z03

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.

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

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

QTY:1

Scale = .1875"/Ft.

James F. Collins
Licenses
No. 102127
FB

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

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

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 TP11-2002 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 AND USER.

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Mar 13 2013

30

01

JAMES F. COLLINS
PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. E2212

FL/-/4/-/-/R/-		Scale = 1875"/Ft.
TC LL	20.0 PSF	REF R8228- 6943
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075083
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SECN- 21148
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF - 1T5P8228Z03

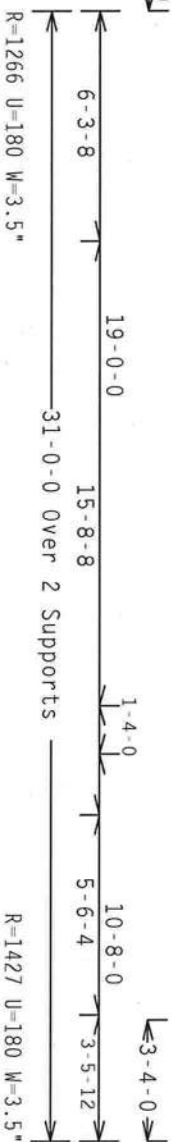
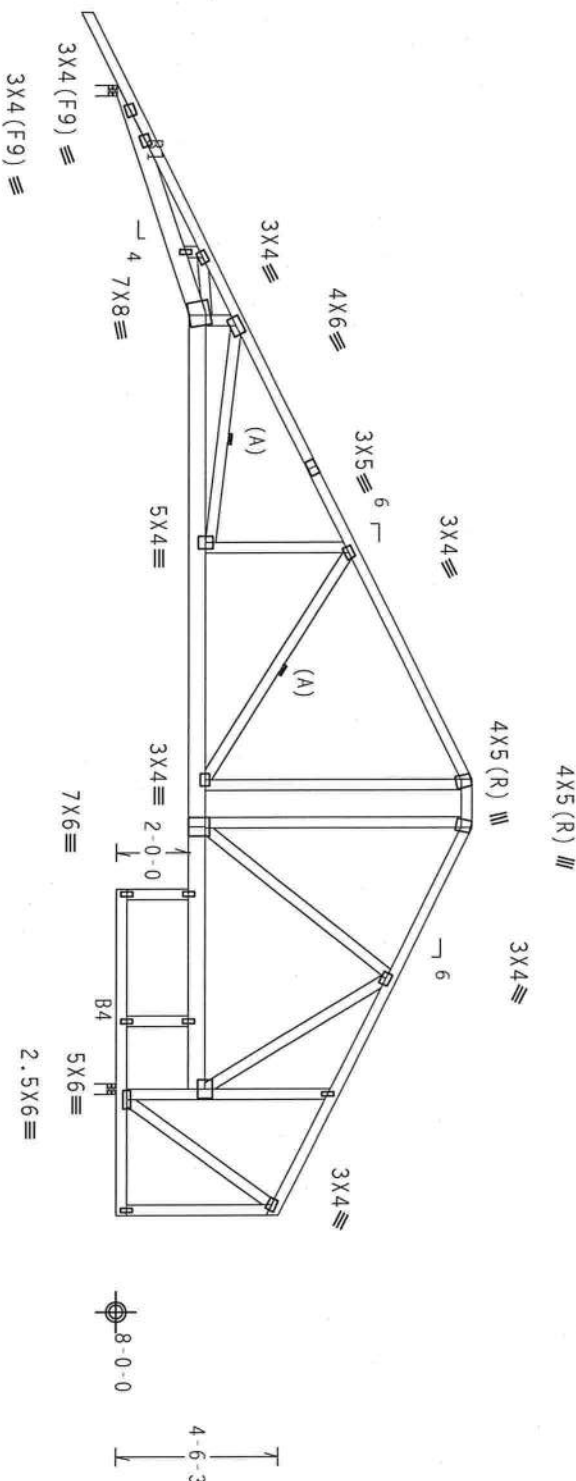
Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2 :B1 2x6 SP #1 Dense:
:B4 2x4 SP #2 Dense:
Webs 2x4 SP #3

Calculated horizontal deflection is 0.14" due to live load and 0.22" due to dead load.

(A) Continuous lateral bracing equally spaced on member.

See detail BCFILLER0207, TCFILLER0207 and REPBCL for filler details. Laterally brace chord above/below filler @ 24" O.C. (or as designed) including a brace on chord directly above/below both ends of filler (if no rigid diaphragm exists at that point)

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.
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.



R=1427 U=180 W=3.5"
(1.75" Effective Contact)

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

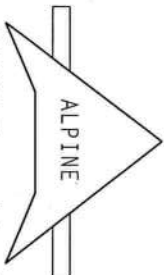
QTY:1

FL/-/4/-/R/-

Scale = .1875"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE BUILDING CODES AND TRUSS MANUFACTURER'S INSTRUCTIONS. THE TRUSS IS DESIGNED FOR A 5000 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 AND BRACING OF TRUSSES. ITW BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY NDS) AND TPI. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNA AS OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN SHALL BE SUFFICIENT TO VERIFY THE TRUSS COMPONENTS. THE TRUSS COMPONENTS SHALL BE 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	R8228 - 6944
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075084
BC LL	0.0 PSF	HC-ENG	JB/DLU
TOT. LD.	40.0 PSF	SEQN-	21152
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2 :B1 2x6 SP #1 Dense:
:B4 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. 1w=1.00 Gcpl(+/-)=0.18

Calculated horizontal deflection is 0.16" due to live load and 0.25" due to dead load.

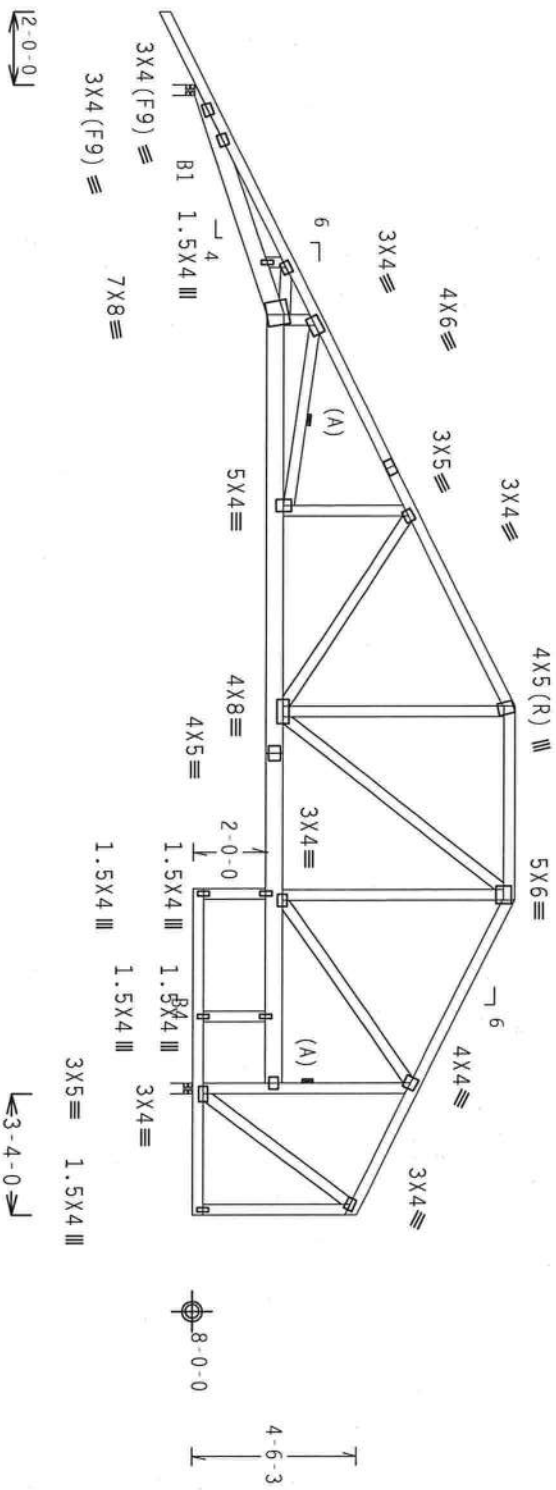
Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

Right end vertical not exposed to wind pressure.

See detail 1CFFILLER0207, TCFILLER0207 and REPRBCFIL for filler details. Laterally brace chord above/below filler @ 24" O.C. (or as designed) including a brace on chord directly above/below both ends of filler (if no rigid diaphragm exists at that point).

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

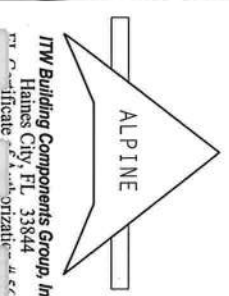


6-3-8 17-0-0 15-8-8 5-4-0 8-8-0 3-7-8
31-0-0 Over 2 Supports
R=1274 U=180 W=3.5"
R=1420 U=180 W=3.5"

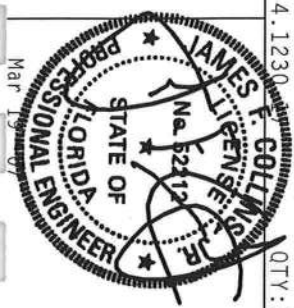
PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.24.1230 QTY:1 FL/-/4/-/R/- Scale =.1875"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 5300 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 OF BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF RUS (NATIONAL DESIGN SPEC. BY AISC) AND TPI. ITW BCG CONNECTIONS ARE MADE OF 70/10/160A (40/55/75) ASTM A505 GRADE 40/60 (4, 8/11,55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. UNLESS OTHERWISE PLACED, FOLLOWED BY (1) SHALL BE PER ANNEK 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.



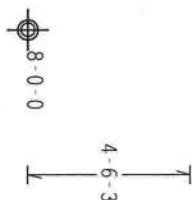
ITW Building Components Group, Inc.
Haines City, FL 33844
Tel: 888.444.4444



TC LL	20.0 PSF	REF	R8228 - 6945
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07075085
BC LL	0.0 PSF	HC-ENG	JB/DLU
TOT.LD.	40.0 PSF	SEON-	21156
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

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

Wind reactions based on MMFRS pressures.
Right end vertical not exposed to wind pressure.



Design Crit: TPI-2002(STD)/FBC

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

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

Scale = .1875"/Ft.

JAMES
LICENSE
NO. 152212

TC LL	20.0 PSF
TC DL	10.0 PSF

REF	R8228 - 6946
DATE	03/16/07

OTY: 32397

JAMES F. COLLINS, JR.
LICENSE
No. 52212
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Mar 19 07

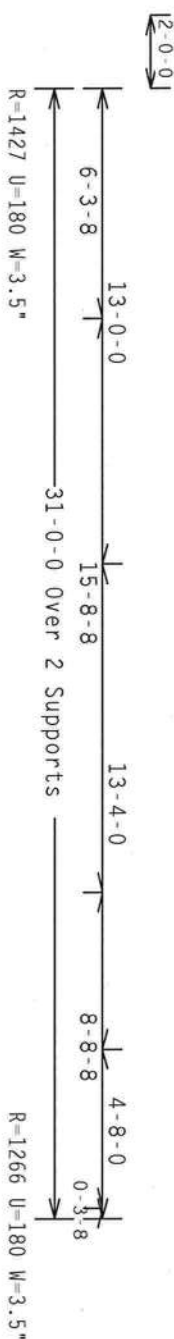
DUR.FAC.	1.25
SPACING	24.0"

FROM JFB
JREF - 1T5P8228Z03

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

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.



Scale = .1875"/Ft.

James F. Collins, Jr.
Licenses
No. B2272

Haines City, FL 33844
 Certificate of Authorization # 6677

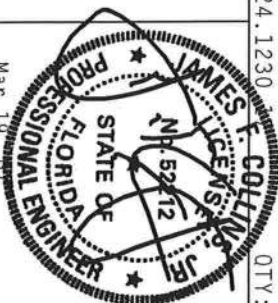
Mar 19 2007

BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEQN- 21169
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5P8228203

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



Haines City, FL 33844
FL Certificate of Authorization # 567



Mar 19 07

TC LL	20.0 PSF	REF	R8228 - 6348
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075062
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEON-	21173
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

Bot	cnord	2x4	SP	#2	dense
Webbs	2x4	SP	#3		

Calculated horizontal deflection is 0.25" due to live load and 0.39" due to dead load.

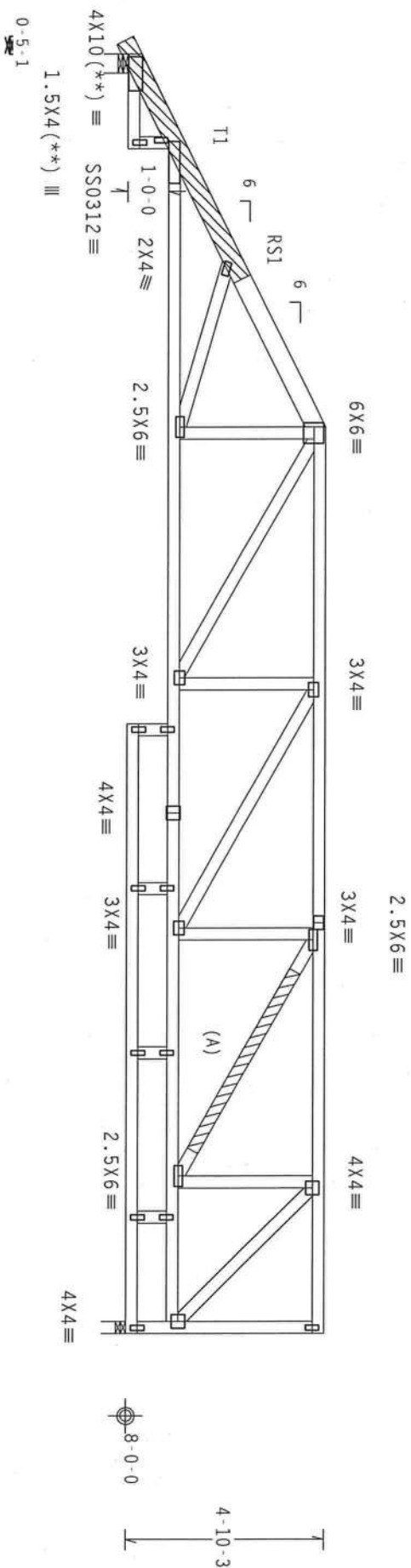
(A) SP #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

(2) 2x6x6-3.5 SP #2 Top chord scabs centered 2-7-15 from left end. Attach one to each outer face of chord with (3) rows of 12d_Common (0.148"x3.25", min.) nails @ 12" O.C., staggered 6".

See detail11BCFILLER0207, TCFILLER0207 and REPCFIL for filler details. Laterally brace chord above/below filler @ 24" O.C. (or as designed) including a brace on chord directly above/below both ends of filler (if no rigid diaphragm exists at that point)

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

Deflection meets $L/240$ live and $L/180$ 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

 $Cq/RT=1.00(1.25)/10(0) \quad 7.24.1230$

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

Scale = .25"/Ft.

R=1260 U=180 W=3.5"

WARNING FRILES (BUILDING COMPONENT SAFETY INFORMATION) - HANDLING, SHIPING, INSTALLING, AND BRACING REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY PEI (PEIRSS PASTLE INSTITUTE, 219 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) FOR SAFETY (GOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MIDDLETOWN, NJ, 07047) FOR SAFETY PRACTICES AND PICA (PEERED CONSULT OF AMERICA, UNLESS OTHERWISE INDICATED) FOR GOOD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GOOD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

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

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 TROUS IN CONFORMANCE WITH THE TYPE OR FABRICATING, HANDLING, SHIPPING, INSTALLING OR BRACING OF TROUSERS.

DESIGN COMPONENTS WITH APPLICABLE PROVISIONS OR NOTES (NATIONAL DESIGN SPEC., BY AIAA) AND TPL. THE BCG CONTRACT PLATES ARE MADE OF 2010/3604 (4.0 H/35/37) ASH ALUMINUM 40/90 (4.0 4/24/35) GALV. STEEL. APPLY AN INSPECTION OF PLATES FOLLOWED BY SMALL AREA INSPECTION OF PLATES. THE TROUSERS SHALL BE IN CONFORMANCE WITH THE DESIGN. THE ACCEPTANCE OF THE DESIGN AND THE RESPONSIBILITY FOR THE TROUSERS SHALL BE THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPL 1 SEC. 2.



Mar 19 07

TC LL	20.0 PSF	REF	R8228 - 6949
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075088
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN -	21235
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF -	1T5P8228Z03

Top chord 2x4 SP #2 Dense :T2 2x6 SP #1 Dense:
Bot chord 2x6 SP #2
Webs 2x4 SP #3

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

Wind reactions based on MWFRS pressures.

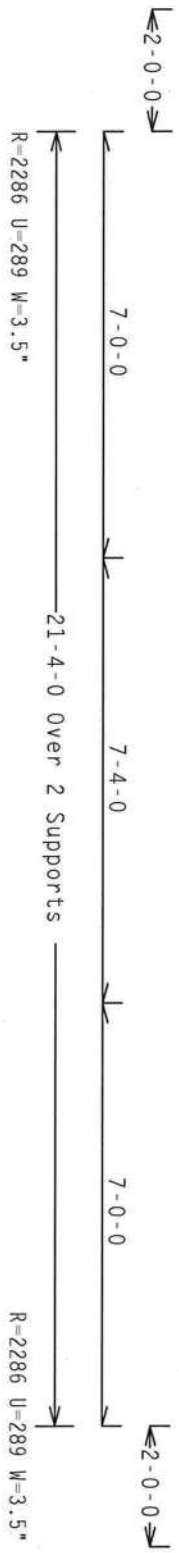
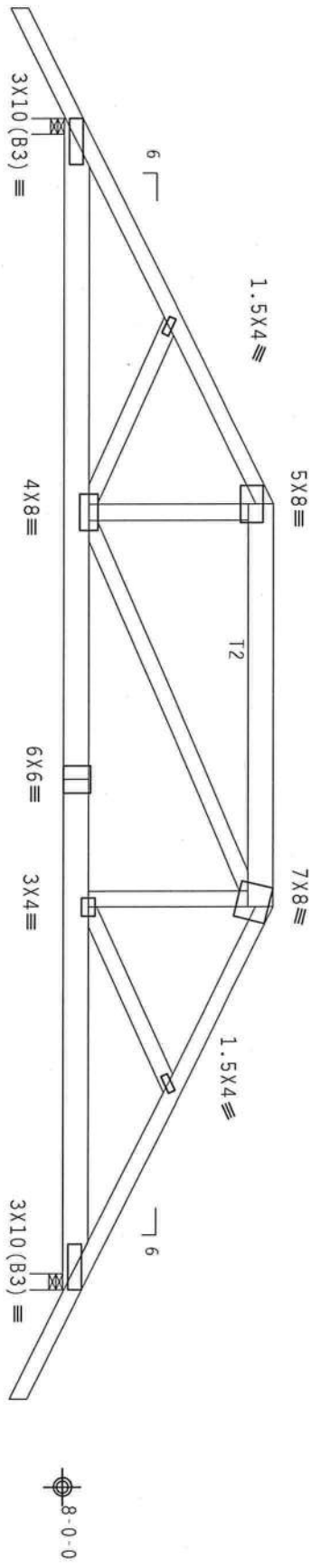
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

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

SPECIAL LOADS

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

TC - From	62 PLF at -2.00 to	62 PLF at 7.00
TC - From	62 PLF at 7.00 to	62 PLF at 14.33
TC - From	62 PLF at 14.33 to	62 PLF at 23.33
BC - From	4 PLF at -2.00 to	4 PLF at 0.00
BC - From	20 PLF at 0.00 to	20 PLF at 21.33
BC - From	4 PLF at 21.33 to	4 PLF at 23.33
TC - 434 LB Conc.	Load at	7.06, 14.27
TC - 182 LB Conc.	Load at	9.06, 10.67, 12.27
BC - 450 LB Conc.	Load at	7.00, 14.33
BC - 77 LB Conc.	Load at	9.06, 10.67, 12.27



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

QTY:1

FL/-/4/-/R/-

Scale =.3125"/Ft.

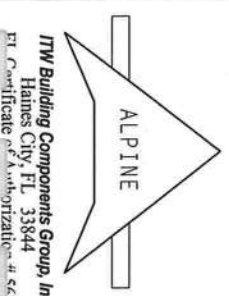
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2100 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

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

DESIGN CONTRACTORS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. THE BCG CONNECTIONS ARE MADE OF 20/10/10/60 (W/H/SS/X) ASH OR 60/60 (W/H/SS) GALV. STEEL. APPLY THE BCG CONNECTIONS TO THE TRUSS. UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION PER DRAWING 1600-2. ANY INSPECTION OF THE TRUSS SHALL BE DONE BY A LICENSED PROFESSIONAL ENGINEER. THE TRUSS DESIGN INDICATES THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Professional Engineer Seal: James F. Collings, State of Florida, No. 52212, Exp. 12/31/2008.

TC LL	20.0 PSF	REF R8228- 6950
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075089
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEON- 21218
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1TSP8228203



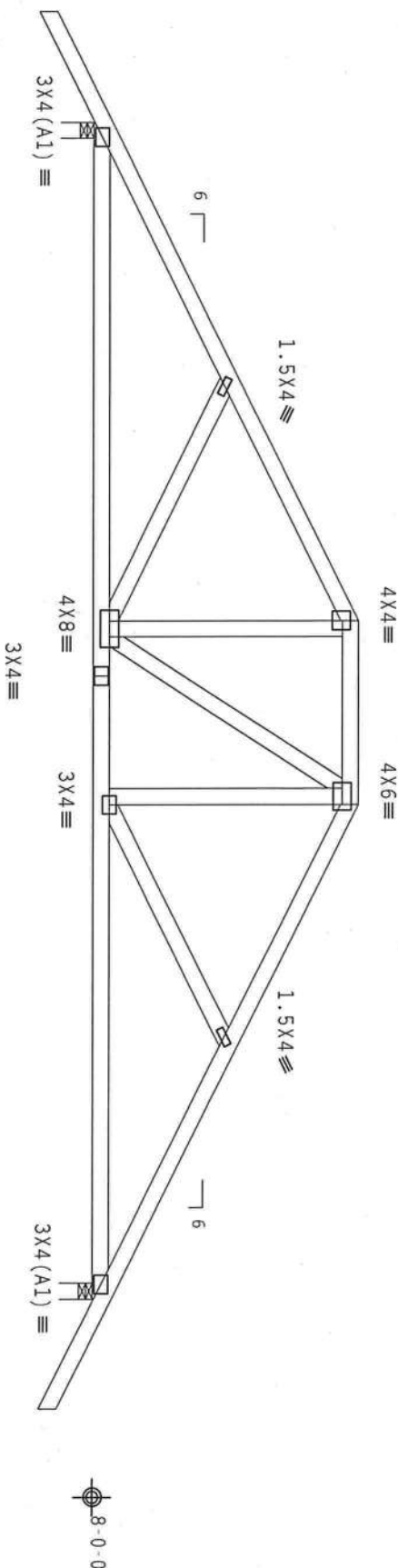
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

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

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



21'-4" Over 2 Supports
R=1012 U=180 W=3.5"

PLT TYP. Wave

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

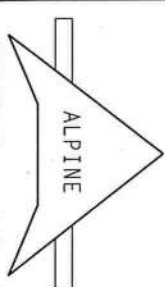
7.24.1230.17

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

Scale = .3125"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND APCA (800) TRUSS CONNECTIONS, 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. TIV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN COMPLIANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND APCA (800) TRUSS CONNECTIONS, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



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



TC LL	20.0 PSF	REF R8228- 6951
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07075063
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEON- 21181
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1TSP8228203

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

SPECIAL LOADS

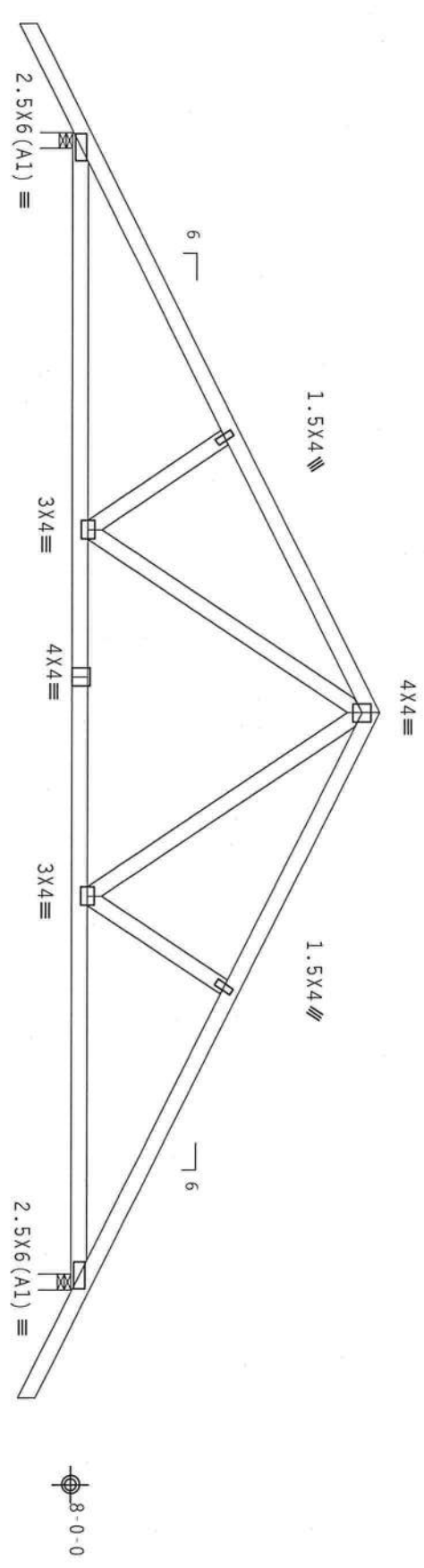
-----LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	
TC - From	62 PLF at -2.00 to 62 PLF at 10.67
TC - From	62 PLF at 10.67 to 62 PLF at 23.33
BC - From	4 PLF at -2.00 to 4 PLF at 0.00
BC - From	20 PLF at 0.00 to 20 PLF at 7.29
BC - From	70 PLF at 7.29 to 20 PLF at 14.04
BC - From	20 PLF at 14.04 to 20 PLF at 21.33
BC - From	4 PLF at 21.33 to 4 PLF at 23.33

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, 1w=1.00 Gcpl(+/-)=0.18

Wind reactions based on MMFRS pressures.

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

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



≤2-0-0

10-8-0

21-4-0 Over 2 Supports

10-8-0

≤2-0-0

R=1181 U=180 W=3.5"

R=1181 U=180 W=3.5"

PLT TYP. Wave

Design Cr1t: TPI-2002(STD)/FBC

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

7.24.1230.17

OTV:1

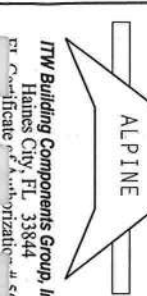
FL/-/4/-/-/R/-

Scale = .3125"/Ft.

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

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. ITW BCG CONNECTIONS ARE MADE OF 20/10/1000 (U/V/S/S/S) ASH 4653 GRADE 40/60 (U, R/H/S/S) GALV. STEEL. APPLY CONNECTIONS TO THE TRUSS CHORDS IN THIS DESIGN. RESISTION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE REQUIRED AND TPI SHALL BE NOTIFIED OF ANY DISCREPANCIES. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENTS DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228 - 6952
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075090
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEON - 21185
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF - 1T5P8228203

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

SPECIAL LOADS

-----LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	
TC - From	62 PLF at -2.00 to 62 PLF at 2.25
TC - From	62 PLF at 2.25 to 62 PLF at 10.58
TC - From	62 PLF at 10.58 to 62 PLF at 14.83
BC - From	4 PLF at -2.00 to 4 PLF at 0.00
BC - From	20 PLF at 0.00 to 20 PLF at 12.83
BC - From	4 PLF at 12.83 to 4 PLF at 14.83
TC - From	-46 LB Conc. Load at 2.25, 10.58
TC - From	14 LB Conc. Load at 2.31, 4.31, 6.31, 6.52, 8.52
BC - From	288 LB Conc. Load at 0.90, 2.90, 4.90, 6.90, 8.90
BC - From	10.90
BC - From	-53 LB Conc. Load at 2.25, 10.58

2 COMPLETE TRUSSES REQUIRED

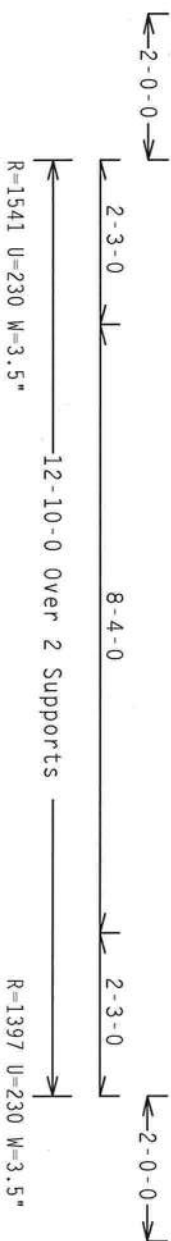
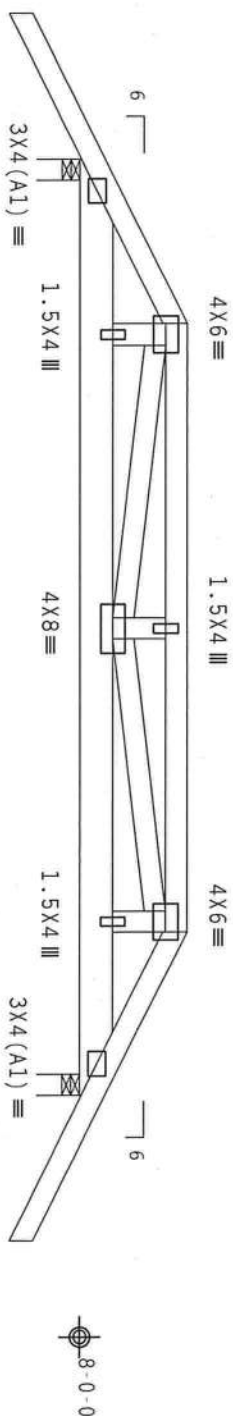
Nailing Schedule: (12d Common (0.148"x3.25", min.)_nails)
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails
in each row to avoid splitting.

110 mph wind, 15.00 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 Gcpl(+/-)=0.18

Wind reactions based on MMFRS pressures.

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

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)

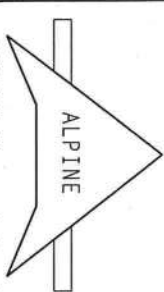
OTV:1

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

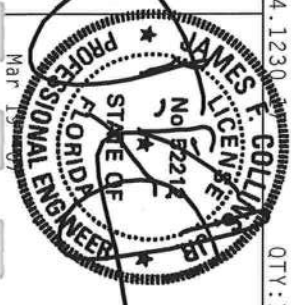
Scale = .375"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 6300 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. TTM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 6300 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.



TTM Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 547



TC LL	20.0 PSF	REF R8228 - 6953
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07075091
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEON - 21210
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF - 1TSP8228203

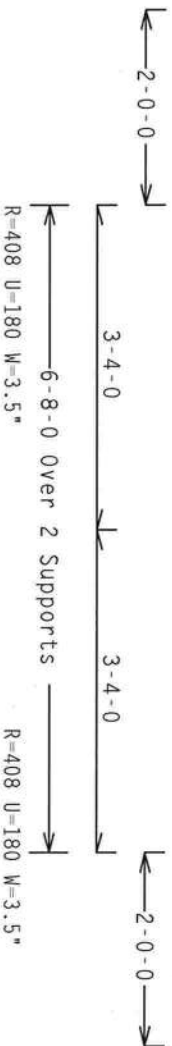
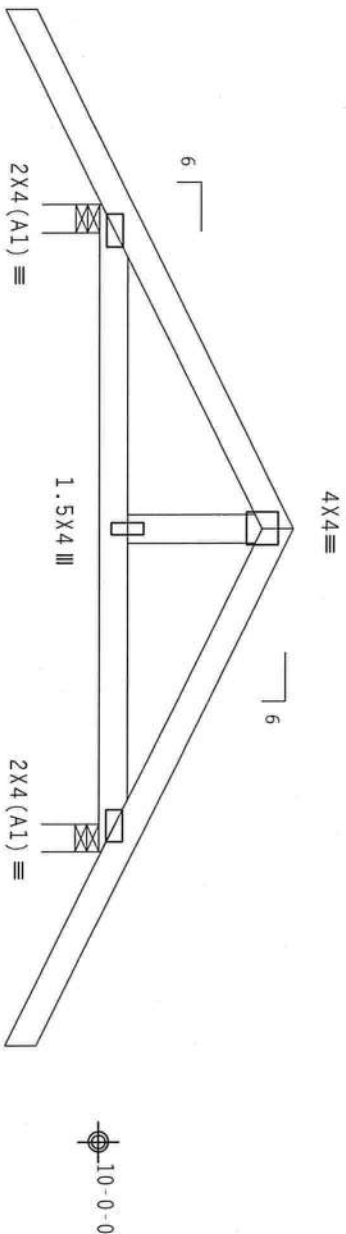
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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.

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. lw=1.00 Gcpl(+/-)=0.18

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



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\"/>

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE BUILDING COMPONENT SAFETY INFORMATION FOR THE TRUSS. THIS TRUSS IS DESIGNED FOR THE FOLLOWING CONDITIONS: NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICK ROAD TRUSS, CORNELL 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.

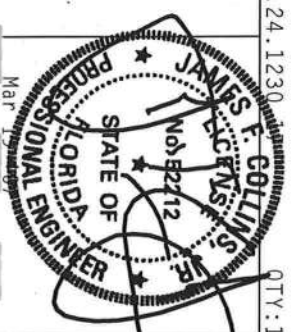
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI1 OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI1. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/166A (W/1/55X) ASTM A653 GRADE 40/90 (W/1/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A-2.

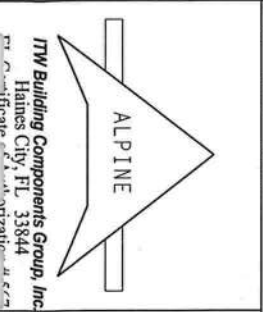
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERAS AS OF TPI1-2002 SEC.3. A SEAL OR THIS TRUSS SHALL BE PLACED BY PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGNER. THE SEAL SHALL BE PLACED BY THE PROFESSIONAL ENGINEER RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGNER. THE SEAL SHALL BE PLACED BY THE PROFESSIONAL ENGINEER RESPONSIBILITY SOCIETY FOR THE TRUSS COMPONENT DESIGNER.

THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228- 6954
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07075064
BC LL	0.0 PSF	HC-ENG UB/AP
TOT.LD.	40.0 PSF	SEON- 21177
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1TSP8228203

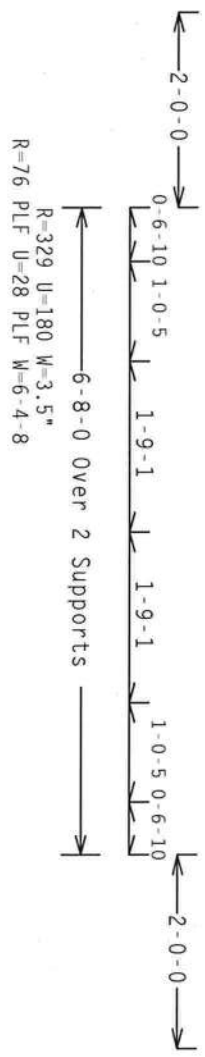
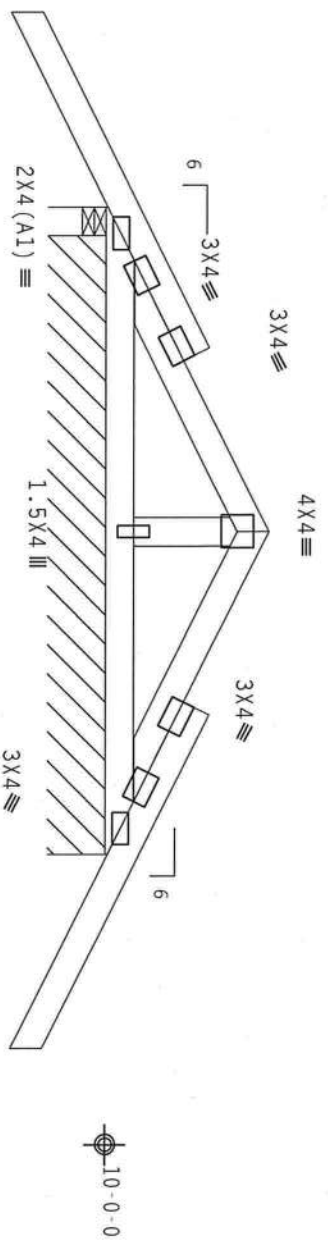


Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, IW=1.00 GCPI(+/-)=0.18
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



PLT TYP. Wave

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

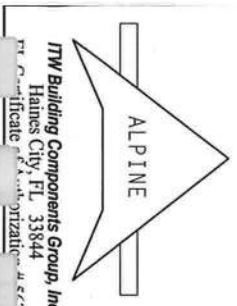
OTV:1 FL/-/4/-/-/R/-

Scale = .5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304, AND 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. TITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CORRECTIONS ARE MADE OF 20/10/16/24 (W/S/S/S) ASH A653 GRADE 40/60 (W, K/H/S) GALV. STEEL. APPLY TO ALL TRUSSES AND PURLINS. UNLESS OTHERWISE INDICATED ON THIS DESIGN, POSITION FOR DRAWINGS 160A-2. ANY INSPECTION OF TRUSSES FOR ONLY BY THE TRUSS MANUFACTURER. THE TRUSS MANUFACTURER'S DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. THE TRUSS MANUFACTURER'S 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
TITW Certificate of Authorization #5579

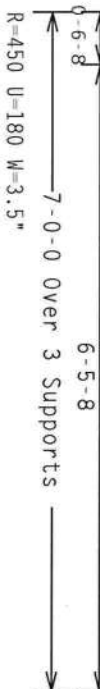


TC LL	20.0 PSF	REF	R8228 - 6955
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075092
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN	21281
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF	1T5P8228Z03

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

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

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



Scale = .5" / Ft.

REF	R8228 - 6956
DATE	03/16/07

DRW HCUSR8228 07075065
HC-ENG JB/AP

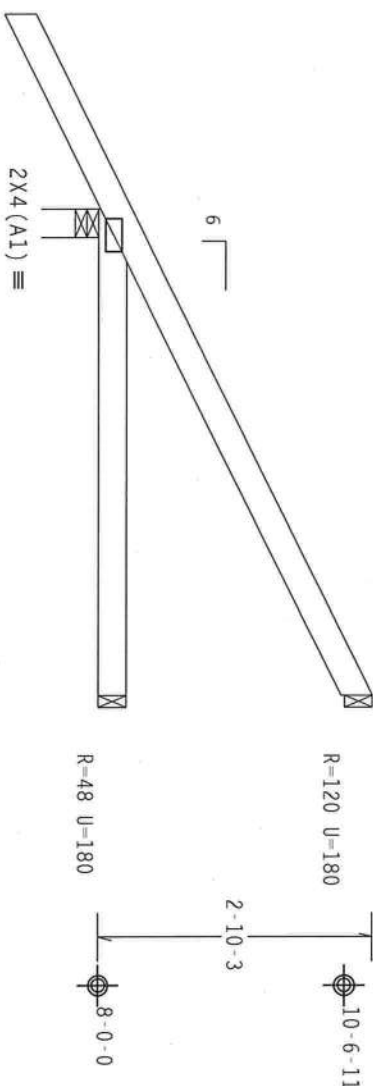
FROM JFB
JREF- 1T5P8228Z03

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

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.

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 Gcpl(+/-)=0.18
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



2-0-0

0-6-8 4-5-8
5-0-0 Over 3 Supports
R=377 U=180 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7-24-123045 COLLINS

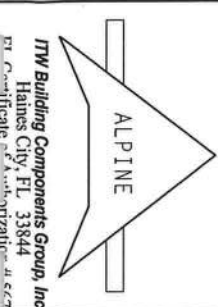
QTY: 1 FL/-/4/-/R/-

Scale = .5"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS COUNCIL OF AMERICA, 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 OF THE TRUSS IN COMPLIANCE WITH TPI: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AIA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (K/H/SSX) ASH/ALUM GRADE 40/60 (K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1600-2. ALL TRUSSES SHALL BE MANUFACTURED IN ACCORDANCE WITH TPI-2002 SEC. 2.3. FOR THE 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.



ITW Building Components Group, Inc.
Haines City, FL 33844
P.O. Box 1000, Haines City, FL 33844



Mar 19 07

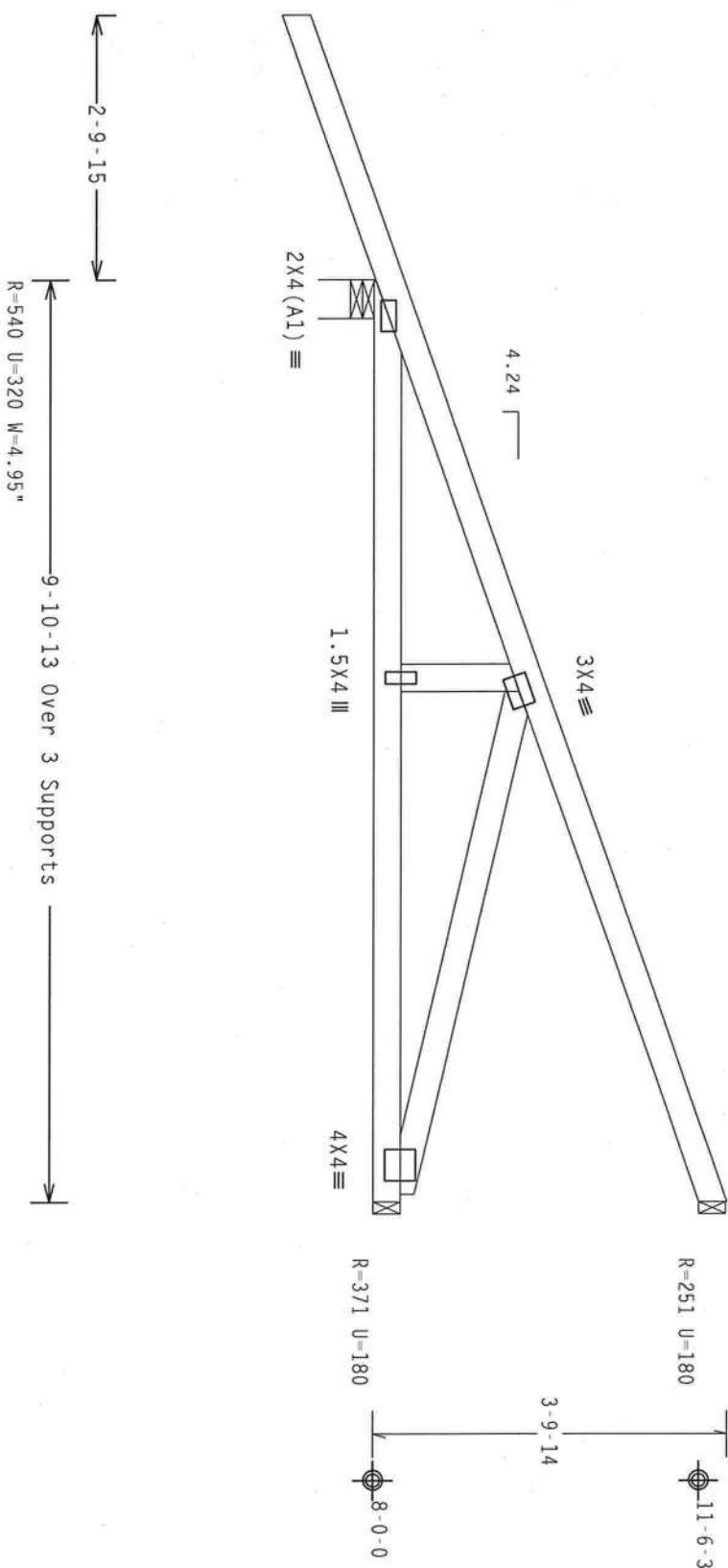
TC LL	20.0 PSF	REF R8228- 6957
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075066
BC LL	0.0 PSF	HC-ENG UB/AP
TOT.LD.	40.0 PSF	SEON- 21059
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1TSP8228203

[illegible]

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

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

Top chord overhangs have been checked only for loads as indicates. Overhangs not checked for man loads or long-term deflection.



SPECIAL LOADS			
-----	(LUMBER	DUR.FAC.=1.25 / PLATE	DUR.FAC.=1.25)
TC -	From	61 PLF at -2.83 to	61 PLF at 9.90
BC -	From	4 PLF at -2.83 to	4 PLF at 0.00
BC -	From	20 PLF at 0.00 to	20 PLF at 9.90
TC -	-220 LB Conc.	Load at	1.48
TC -	98 LB Conc.	Load at	4.31
TC -	241 LB Conc.	Load at	7.13
BC -	-70 LB Conc.	Load at	1.48
BC -	29 LB Conc.	Load at	4.31
BC -	96 LB Conc.	Load at	7.13

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

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

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

QTY:1

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

Scale = .5"/Ft.

WARNING—TRUCKS, RIGS, EXTRACT, CASE, IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BROCKING REFER TO DC-51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PRACTICE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND (800) TRUSS COUNCIL OF AMERICA, 63000 INTERPRET LANE, MADISON, WI, 53719 FOR SAFETY PRACTICES AND 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 CELLING.

ALPINE

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



TC LL	20.0 PSF	REF	R3228- 6958
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075093
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT.LD.	40.0 PSF	SEQN-	21076
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228203

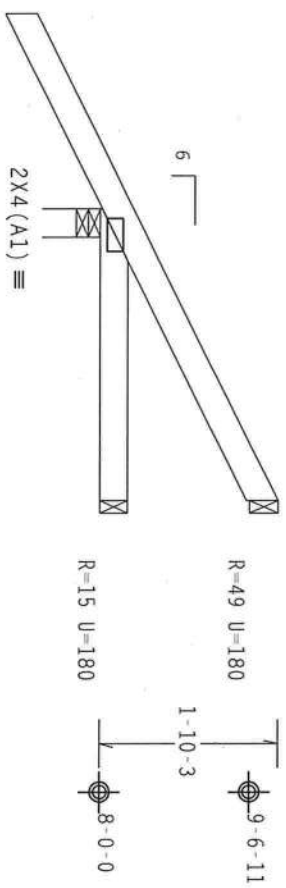
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

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

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, lw=1.00 GCPI(+/-)=0.18

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



2'-0'-0"

3'-0'-0" over 3 Supports
R=317 U=180 W=3.5"

PLT TYP. Wave

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

7.24.1230.17

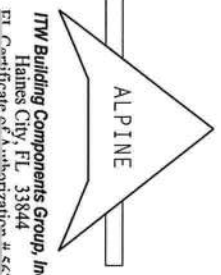
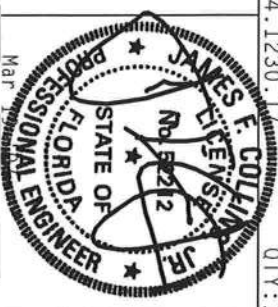
QTY: 1 FL/-/4/-/-/R/-

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, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL 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 COMMENTS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ITW BCG PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE INDICATED SHALL BE 1/4" THICK. UNLESS OTHERWISE INDICATED, ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEAL OR TPI-2002 SEC.3. 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 ANSI/TPI 1 SEC. 2.



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

TC LL	20.0 PSF	REF	R8228 - 6959
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075067
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	21063
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

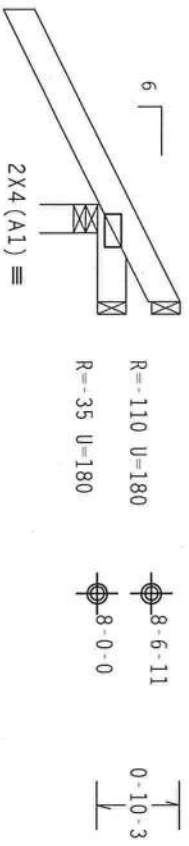
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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.

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

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



2-0-0
1-0-0 Over 3 Supports
R=361 U=180 W=3.5"

PLT TYP. Wave

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

QTY:1

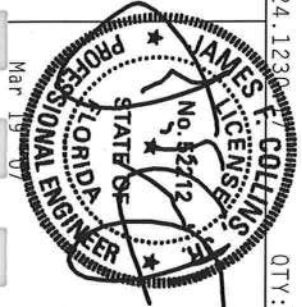
FL/-/4/-/-/R/-

Scale =.5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICKA GOOD TRUSS COUNCIL OF AMERICA, UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA AND TPI. CONNECTOR PLATES ARE MADE OF 20/18/1664 (H/A/S/S/V) ASH/ALD GRAD. 40/60 (H. K/H, SSI GALT, STEEL. ITW BCG

ITW Building Components Group, Inc.
Haines City, FL 33844
Per Certificate of Authorization # SC7



TC LL	20.0 PSF	REF	R8228 - 6960
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075094
BC LL	0.0 PSF	HC-ENG	JB/DLJ
TOT. LD.	40.0 PSF	SEQN -	21066
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF -	1T5P8228Z03

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

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

Wind reactions based on MMFRS pressures.

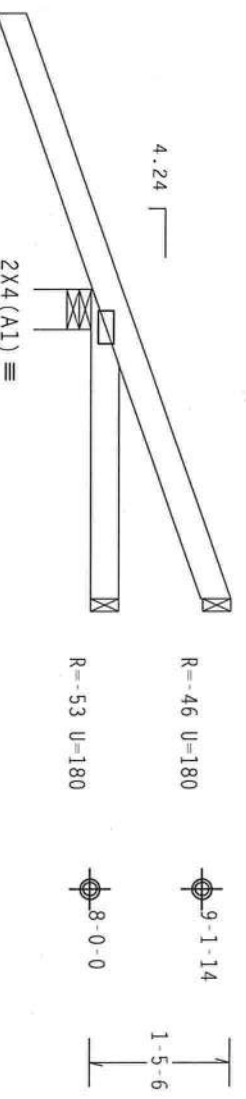
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Top chord overhangs have been checked only for loads as indicates. Overhangs not checked for man loads or long-term deflection.

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 61 PLF at -2.83 to 61 PLF at 3.18
BC - From 4 PLF at -2.83 to 4 PLF at 0.00
TC - From 20 PLF at 0.00 to 20 PLF at 3.18
BC - -220 LB Conc. Load at 1.48
BC - -70 LB Conc. Load at 1.48

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



R=253 U=208 W=4.95*

PLT TYP. Wave

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

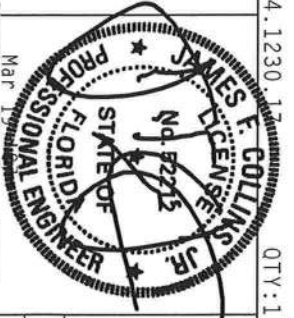
7.24.1230.12 OTY:1 FL/-/4/-/-/R/-

Scale =.5"/ft.

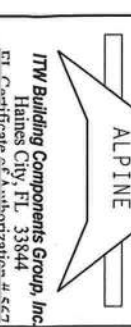
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COUNCIL OF AMERICA), 6300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

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

CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/AS) AND TPI. ITW BCG CONNECTIONS ARE MADE OF 20/18/16GA (W/H/S/S) ASTM A653 GRADE 40/50 (K, K/H, S) GALV. STEEL. APPLY TO ALL TRUSSES. CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE TPI DRAWINGS AND TPI-2002. ANY INSPECTION OF PLATES FOLLOWED BY (CS) SHALL BE PERFORMED BY A TPI-2002. 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- 6961
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUR8228 07075095
BC LL	0.0 PSF	HC-ENG JB/DLJ
TOT.LD.	40.0 PSF	SEON- 21196
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5P8228203



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

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

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

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

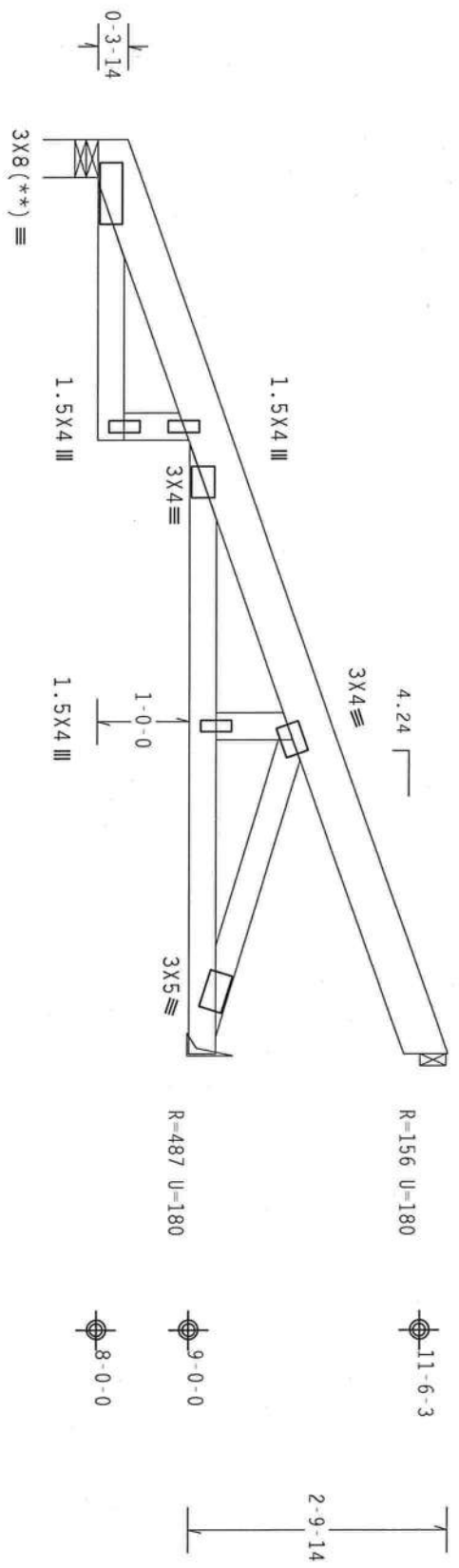
Wind reactions based on MMFRS pressures.

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

SPECIAL LOADS

-----LUMBER	DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From	61 PLF at 0.00 to 61 PLF at 9.90
BC - From	20 PLF at 0.00 to 20 PLF at 3.24
BC - From	20 PLF at 3.24 to 20 PLF at 9.90
PLT -	-220 LB Conc. Load at (1.48, 8.80)
PLT -	108 LB Conc. Load at (4.31, 9.80)
PLT -	267 LB Conc. Load at (7.13, 10.80)
PLB -	-70 LB Conc. Load at (1.48, 8.04)
PLB -	19 LB Conc. Load at (4.31, 9.04)
PLB -	70 LB Conc. Load at (7.13, 9.04)

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

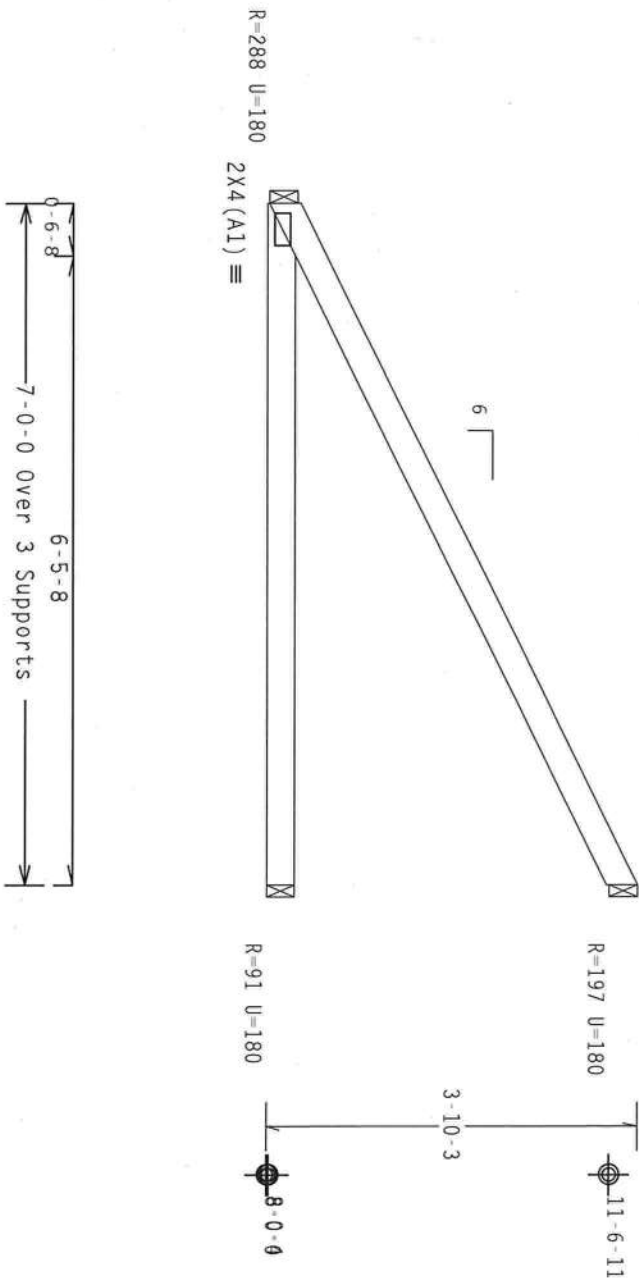


Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense

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.

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



PLT TYP. Wave

Design Crit: TP1-2002(STD)/FBC

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

7.24.1230

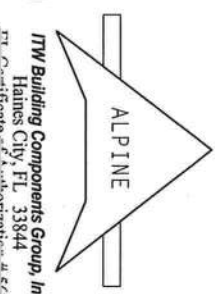
OTY:1

FL/-/4/-/R/-

Scale =.5"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TP1. ITW BCG PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ALL CONNECTIONS OF PLATES TO TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TP1 SEC. 2.



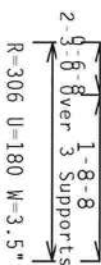
ITW Building Components Group, Inc.
Haines City, FL 33844
Tel: 888-444-4447

TC LL	20.0 PSF	REF R8228- 6963
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07075068
BC LL	0.0 PSF	HC-ENG JB/AP *
TOT.LD.	40.0 PSF	SEON- 21189
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5P8228203

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

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

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



Scale = .5"/Ft.

ALPINE

Mar 19 2009

2230

QTY

PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 65212
JAMES F. COLLINS
LICENSE

TC LL	20.0 PSF	REF	R8228- 6964
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075069
BC LL	0.0 PSF	HC-ENG	JB/AP *
TOT.LD.	40.0 PSF	SEQN-	21193
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

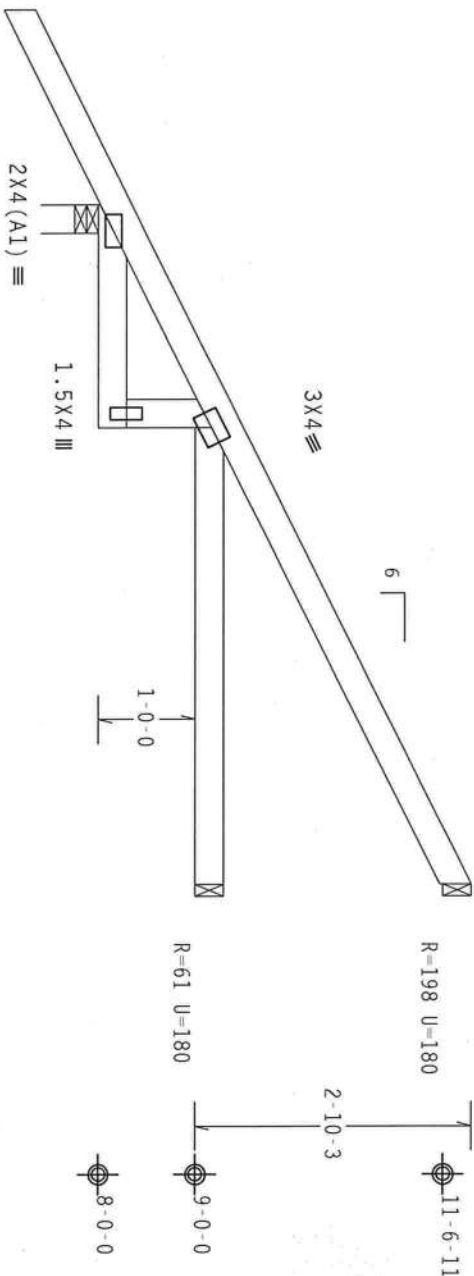
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

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.

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 gcpl(+/-)=0.18

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

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

7.24.1230.17

QTY:1

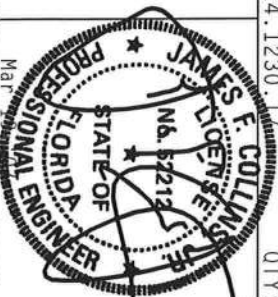
FL/-/4/-/-/R/-

Scale =.5"/ft.

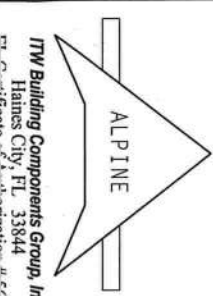
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST QUALITY BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6200 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 NDS (NATIONAL DESIGN SPEC. BY AIAA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/10/100A (W-H/SS/S) ASTM A503 GRADE 40/60 (W. V/H/SS) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. 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.

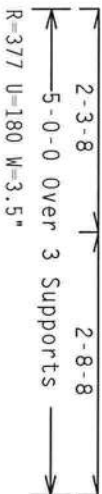


TC LL	20.0 PSF	REF R8228- 6965
TC DL	10.0 PSF	DATE 03/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07075070
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEON- 21199
DUR.FAC.	1.25	FROM JFB
SPACING	24.0"	JREF- 1T5P8228Z03



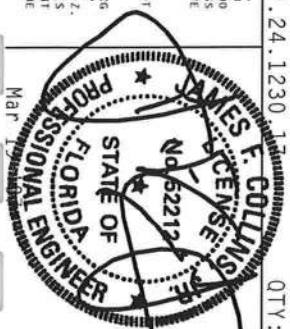
ITW Building Components Group, Inc.
Haines City, FL 33844
www.alpinebuilding.com

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



Scale = .5" / Ft.

ITW Building Components Group, Inc.
Haines City, FL 33844
E1 Certificate of Authorization # 567

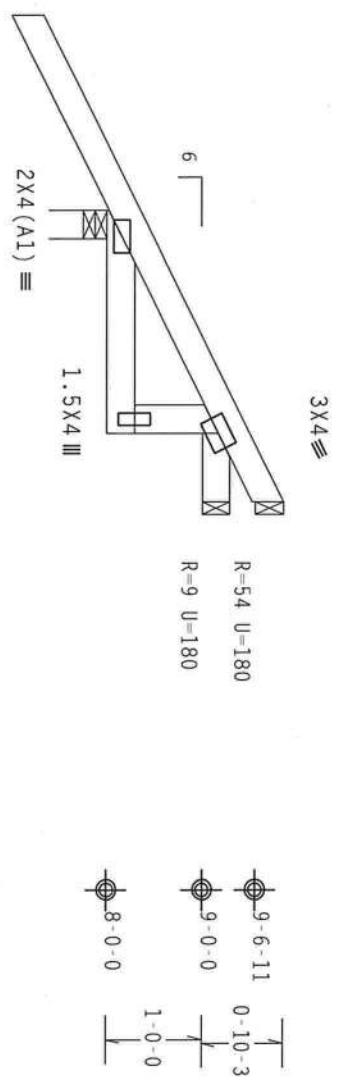


TC LL	20.0 PSF	REF	R8228 - 6966
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075071
BC LL	0.0 PSF	HC-ENG	JB/AP *
TOT.LD.	40.0 PSF	SEQN-	21202
DUR.FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

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

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.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. IW=1.00 GCPI(+/-)=0.18
In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.



2-3-8
3-0-0 Over 3 Supports
R=317 U=180 W=3.5"

PLT TYP. Wave

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

7.24.1230 E. COLLING
OTY:1

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

Scale = .5"/Ft.

ALPINE			
ITW Building Components Group, Inc. Haines City, FL 33844 PL Certificate of Authorization # 567			
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO MCSI (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE TRUSS SOCIETY OF AMERICA, 6300 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.			
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. 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 NDS (NATIONAL DESIGN SPEC. BY AIA/P&A) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/1604 (404HS/RS) ASTM A553 GRADE 40/60 (4, 6/11, 55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2, 1604-3, 1604-4, 1604-5, 1604-6, 1604-7, 1604-8, 1604-9, 1604-10, 1604-11, 1604-12, 1604-13, 1604-14, 1604-15, 1604-16, 1604-17, 1604-18, 1604-19, 1604-20, 1604-21, 1604-22, 1604-23, 1604-24, 1604-25, 1604-26, 1604-27, 1604-28, 1604-29, 1604-30, 1604-31, 1604-32, 1604-33, 1604-34, 1604-35, 1604-36, 1604-37, 1604-38, 1604-39, 1604-40, 1604-41, 1604-42, 1604-43, 1604-44, 1604-45, 1604-46, 1604-47, 1604-48, 1604-49, 1604-50, 1604-51, 1604-52, 1604-53, 1604-54, 1604-55, 1604-56, 1604-57, 1604-58, 1604-59, 1604-60, 1604-61, 1604-62, 1604-63, 1604-64, 1604-65, 1604-66, 1604-67, 1604-68, 1604-69, 1604-70, 1604-71, 1604-72, 1604-73, 1604-74, 1604-75, 1604-76, 1604-77, 1604-78, 1604-79, 1604-80, 1604-81, 1604-82, 1604-83, 1604-84, 1604-85, 1604-86, 1604-87, 1604-88, 1604-89, 1604-90, 1604-91, 1604-92, 1604-93, 1604-94, 1604-95, 1604-96, 1604-97, 1604-98, 1604-99, 1604-100. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PRELIMINARY ENGINEERING. ACCEPTANCE OF PRELIMINARY ENGINEERING DOES NOT CONSTITUTE A GUARANTEE OF THE SUITABILITY OF THIS BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.			
TC LL	20.0 PSF	REF	R8228 - 6967
TC DL	10.0 PSF	DATE	03/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07075072
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT. LD.	40.0 PSF	SEQN-	21263
DUR. FAC.	1.25	FROM	JFB
SPACING	24.0"	JREF-	1T5P8228Z03

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

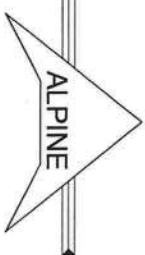
THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED
CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB
BRACING.

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

WEB MEMBER SIZE	SPECIFIED CLB BRACING	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.

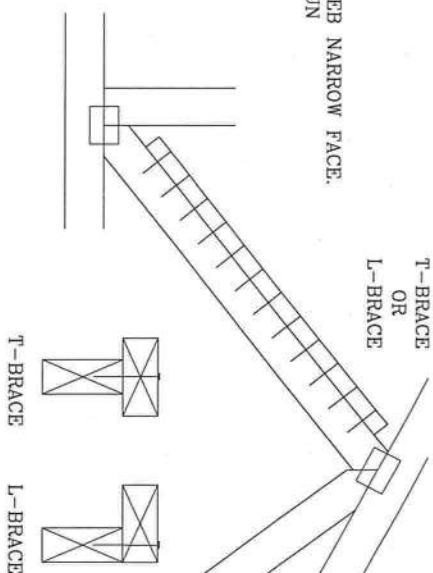
- (*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.



ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

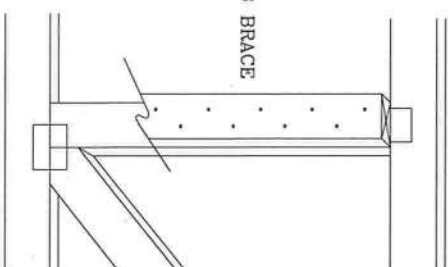
T-BRACING
OR
L-BRACING:

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 BOX OF WEB
MEMBER LENGTH



SCAB BRACING:

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



THIS DRAWING REPLACES DRAWING 579,640

WARNING ACCESSSES REMOVE EXTREME CARE FABRICATING, HANDLING, SHIPPING, INSTALLING AND
 REMOVAL. REFER TO BEST BUILDING CODES AND SAFETY INFORMATION, PUBLISHED BY THE CRISIS PLANNING
 CENTER, 6800 ENTERPRISE LN., AUSTIN, TX 78719 FOR SAFETY PRACTICES PRIOR TO REFRAMING. IN THE
 UNITED STATES, THE FOLLOWING INFORMATION IS REQUIRED FOR THE REFRAMING OF EXISTING STRUCTURAL
 FUNCTIONS, UNLESS OTHERWISE INDICATED, THE 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. TV, BGC, AND SHALL
 NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRESS IN
 CONFORMANCE WITH THE FABRICATING, HANDLING, SHIPPING, INSTALLING AND REMOVAL OF THE TRESS IN
 THE BGC CONNECTOR PLATES ARE MADE OF 20/24/16/24 ALUMINUM, ASSUMED TO BE 100% STRESS
 PLATE, STEEL, APPLY PLATES TO EACH FACE OF THESS AND UNLESS OTHERWISE LOCATED ON THESS

DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY A QUALIFIED PERSON AS REQUIRED BY THE CODE OF PRACTICE FOR THE CONSTRUCTION OF STEEL BRIDGE, ANNEX A.3 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.

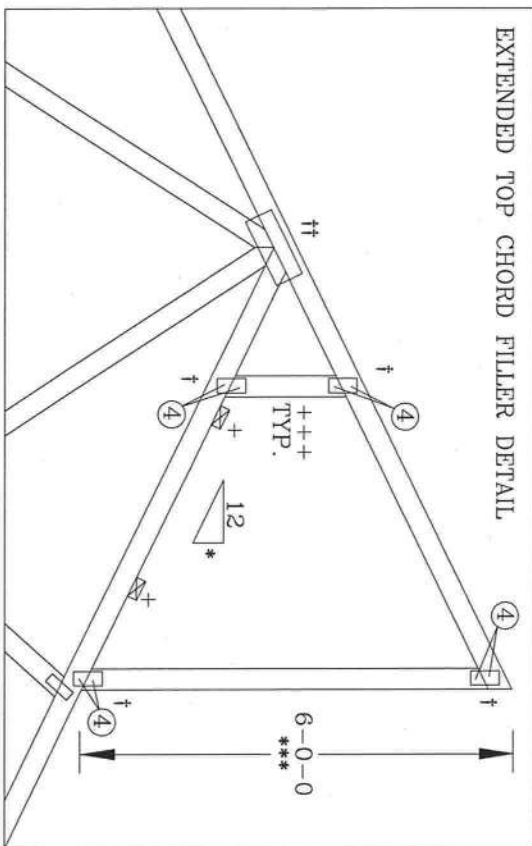


TC LL	PSF	REF	CLB SUBST.
TC DL	PSF	DATE	2/23/07
BC PL	PSF	DRWG	BRCLBSUB0207
BC LL	PSF	-ENG	MLH/KAR
TOT LD.	PSF		
DUR. FAC.			
SPACING			

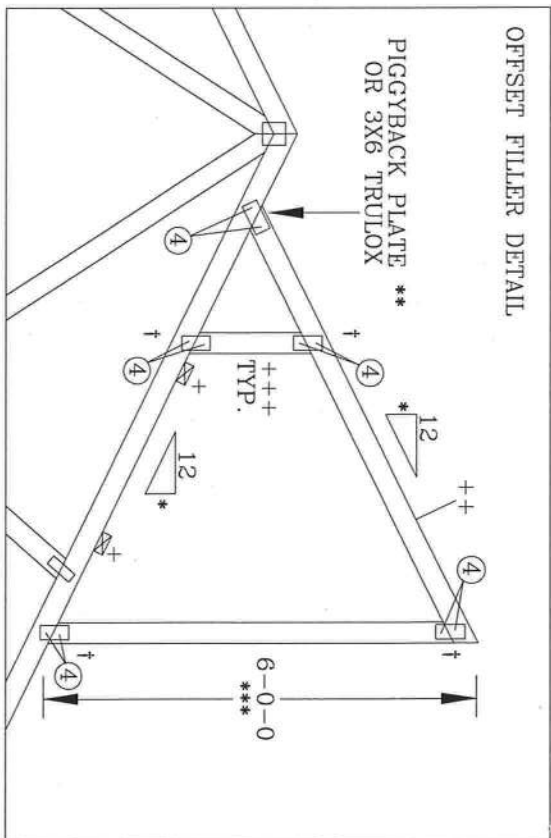
TOP CHORD FILLER DETAIL

- + 2X4 CONTINUOUS LATERAL BRACING AT 24" O.C. MAXIMUM SPACING. ATTACH TO EACH TOP CHORD WITH (2) 16d COMMON (0.162"x 3.5", MIN) NAILS.
- BRACING MATERIAL TO BE SUPPLIED AND ATTACHED AT BOTH ENDS TO A SUITABLE SUPPORT BY ERECTION CONTRACTOR.
- ++ 2X4 SO. PINE #2 N OR SPF #1/#2 FILLER TOP CHORD.
- +++ 2X4 SO. PINE #3 OR SPF #1/#2 VERTICAL WEBS SPACED 48" OC MAXIMUM.
- * 8/12 MAXIMUM PITCH.
- ** 2X8, 25 PIGGYBACK SPECIAL PLATE. SEE DRAWING PIGBACKB0699 FOR PIGGYBACK SPECIAL PLATE INFORMATION.
- *** 6'0" MAXIMUM HEIGHT.
- † W2X4 OR 3X6 TRULOX.
- †† REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.
- 0.120"x 1.375" NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. NAILS SPECIFIED IN CIRCLES MUST BE APPLIED TO EACH FACE OF EACH TRUSS PLY. SEE DWG. 160TL FOR NAILING AND TRULOX PLATE REQUIREMENTS.

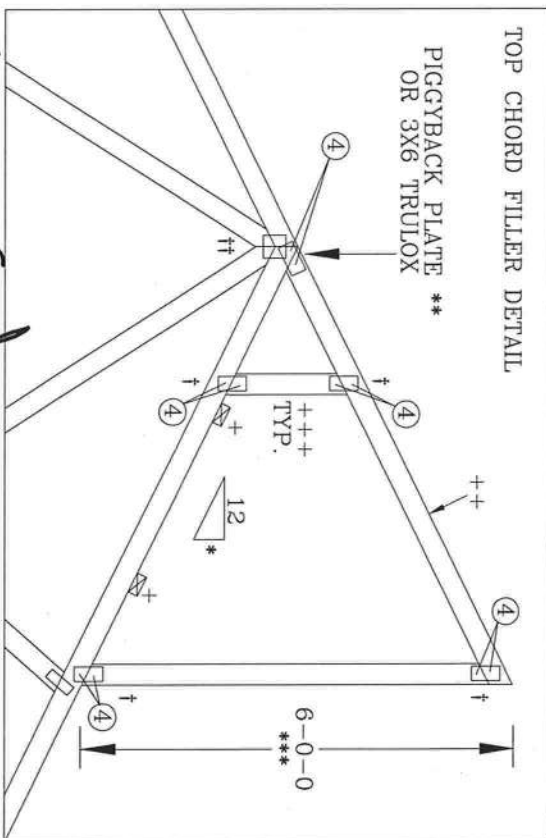
EXTENDED TOP CHORD FILLER DETAIL



OFFSET FILLER DETAIL



TOP CHORD FILLER DETAIL



ITW BUILDING COMPONENTS GROUP, INC.
POMPAHO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22304, AND VICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LN., MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. 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 CONTRACTOR'S PLATES ARE MADE BY 2017/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084/1085/1086/1087/1088/1089/1090/1091/1092/1093/1094/1095/1096/1097/1098/1099/1100/1101/1102/1103/1104/1105/1106/1107/1108/1109/1110/1111/1112/1113/1114/1115/1116/1117/1118/1119/1120/1121/1122/1123/1124/1125/1126/1127/1128/1129/1130/1131/1132/1133/1134/1135/1136/1137/1138/1139/1140/1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/1199/1200/1201/1202/1203/1204/1205/1206/1207/1208/1209/1210/1211/1212/1213/1214/1215/1216/1217/1218/1219/1220/1221/1222/1223/1224/1225/1226/1227/1228/1229/1230/1231/1232/1233/1234/1235/1236/1237/1238/1239/1240/1241/1242/1243/1244/1245/1246/1247/1248/1249/1250/1251/1252/1253/1254/1255/1256/1257/1258/1259/1260/1261/1262/1263/1264/1265/1266/1267/1268/1269/1270/1271/1272/1273/1274/1275/1276/1277/1278/1279/1280/1281/1282/1283/1284/1285/1286/1287/1288/1289/1290/1291/1292/1293/1294/1295/1296/1297/1298/1299/1300/1301/1302/1303/1304/1305/1306/1307/1308/1309/1310/1311/1312/1313/1314/1315/1316/1317/1318/1319/1320/1321/1322/1323/1324/1325/1326/1327/1328/1329/1330/1331/1332/1333/1334/1335/1336/1337/1338/1339/1340/1341/1342/1343/1344/1345/1346/1347/1348/1349/1350/1351/1352/1353/1354/1355/1356/1357/1358/1359/1360/1361/1362/1363/1364/1365/1366/1367/1368/1369/1370/1371/1372/1373/1374/1375/1376/1377/1378/1379/1380/1381/1382/1383/1384/1385/1386/1387/1388/1389/1390/1391/1392/1393/1394/1395/1396/1397/1398/1399/1400/1401/1402/1403/1404/1405/1406/1407/1408/1409/1410/1411/1412/1413/1414/1415/1416/1417/1418/1419/1420/1421/1422/1423/1424/1425/1426/1427/1428/1429/1430/1431/1432/1433/1434/1435/1436/1437/1438/1439/1440/1441/1442/1443/1444/1445/1446/1447/1448/1449/1450/1451/1452/1453/1454/1455/1456/1457/1458/1459/1460/1461/1462/1463/1464/1465/1466/1467/1468/1469/1470/1471/1472/1473/1474/1475/1476/1477/1478/1479/1480/1481/1482/1483/1484/1485/1486/1487/1488/1489/1490/1491/1492/1493/1494/1495/1496/1497/1498/1499/1500/1501/1502/1503/1504/1505/1506/1507/1508/1509/1510/1511/1512/1513/1514/1515/1516/1517/1518/1519/1520/1521/1522/1523/1524/1525/1526/1527/1528/1529/1530/1531/1532/1533/1534/1535/1536/1537/1538/1539/1540/1541/1542/1543/1544/1545/1546/1547/1548/1549/1550/1551/1552/1553/1554/1555/1556/1557/1558/1559/1560/1561/1562/1563/1564/1565/1566/1567/1568/1569/1570/1571/1572/1573/1574/1575/1576/1577/1578/1579/1580/1581/1582/1583/1584/1585/1586/1587/1588/1589/1590/1591/1592/1593/1594/1595/1596/1597/1598/1599/1600/1601/1602/1603/1604/1605/1606/1607/1608/1609/1610/1611/1612/1613/1614/1615/1616/1617/1618/1619/1620/1621/1622/1623/1624/1625/1626/1627/1628/1629/1630/1631/1632/1633/1634/1635/1636/1637/1638/1639/1640/1641/1642/1643/1644/1645/1646/1647/1648/1649/1650/1651/1652/1653/1654/1655/1656/1657/1658/1659/1660/1661/1662/1663/1664/1665/1666/1667/1668/1669/1670/1671/1672/1673/1674/1675/1676/1677/1678/1679/1680/1681/1682/1683/1684/1685/1686/1687/1688/1689/1690/1691/1692/1693/1694/1695/1696/1697/1698/1699/1700/1701/1702/1703/1704/1705/1706/1707/1708/1709/1710/1711/1712/1713/1714/1715/1716/1717/1718/1719/1720/1721/1722/1723/1724/1725/1726/1727/1728/1729/1730/1731/1732/1733/1734/1735/1736/1737/1738/1739/1740/1741/1742/1743/1744/1745/1746/1747/1748/1749/1750/1751/1752/1753/1754/1755/1756/1757/1758/1759/1760/1761/1762/1763/1764/1765/1766/1767/1768/1769/1770/1771/1772/1773/1774/1775/1776/1777/1778/1779/1780/1781/1782/1783/1784/1785/1786/1787/1788/1789/1790/1791/1792/1793/1794/1795/1796/1797/1798/1799/1800/1801/1802/1803/1804/1805/1806/1807/1808/1809/1810/1811/1812/1813/1814/1815/1816/1817/1818/1819/1820/1821/1822/1823/1824/1825/1826/1827/1828/1829/1830/1831/1832/1833/1834/1835/1836/1837/1838/1839/1840/1841/1842/1843/1844/1845/1846/1847/1848/1849/1850/1851/1852/1853/1854/1855/1856/1857/1858/1859/1860/1861/1862/1863/1864/1865/1866/1867/1868/1869/1870/1871/1872/1873/1874/1875/1876/1877/1878/1879/1880/1881/1882/1883/1884/1885/1886/1887/1888/1889/1890/1891/1892/1893/1894/1895/1896/1897/1898/1899/1900/1901/1902/1903/1904/1905/1906/1907/1908/1909/1910/1911/1912/1913/1914/1915/1916/1917/1918/1919/1920/1921/1922/1923/1924/1925/1926/1927/1928/1929/1930/1931/1932/1933/1934/1935/1936/1937/1938/1939/1940/1941/1942/1943/1944/1945/1946/1947/1948/1949/1950/1951/1952/1953/1954/1955/1956/1957/1958/1959/1960/1961/1962/1963/1964/1965/1966/1967/1968/1969/1970/1971/1972/1973/1974/1975/1976/1977/1978/1979/1980/1981/1982/1983/1984/1985/1986/1987/1988/1989/1990/1991/1992/1993/1994/1995/1996/1997/1998/1999/2000/2001/2002/2003/2004/2005/2006/2007/2008/2009/2010/2011/2012/2013/2014/2015/2016/2017/2018/2019/2020/2021/2022/2023/2024/2025/2026/2027/2028/2029/2030/2031/2032/2033/2034/2035/2036/2037/2038/2039/2040/2041/2042/2043/2044/2045/2046/2047/2048/2049/2050/2051/2052/2053/2054/2055/2056/2057/2058/2059/2060/2061/2062/2063/2064/2065/2066/2067/2068/2069/2070/2071/2072/2073/2074/2075/2076/2077/2078/2079/2080/2081/2082/2083/2084/2085/2086/2087/2088/2089/2090/2091/2092/2093/2094/2095/2096/2097/2098/2099/2100/2101/2102/2103/2104/2105/2106/2107/2108/2109/2110/2111/2112/2113/2114/2115/2116/2117/2118/2119/2120/2121/2122/2123/2124/2125/2126/2127/2128/2129/2130/2131/2132/2133/2134/2135/2136/2137/2138/2139/2140/2141/2142/2143/2144/2145/2146/2147/2148/2149/2150/2151/2152/2153/2154/2155/2156/2157/2158/2159/2160/2161/2162/2163/2164/2165/2166/2167/2168/2169/2170/2171/2172/2173/2174/2175/2176/2177/2178/2179/2180/2181/2182/2183/2184/2185/2186/2187/2188/2189/2190/2191/2192/2193/2194/2195/2196/2197/2198/2199/2200/2201/2202/2203/2204/2205/2206/2207/2208/2209/2210/2211/2212/2213/2214/2215/2216/2217/2218/2219/2220/2221/2222/2223/2224/2225/2226/2227/2228/2229/2230/2231/2232/2233/2234/2235/2236/2237/2238/2239/2240/2241/2242/2243/2244/2245/2246/2247/2248/2249/2250/2251/2252/2253/2254/2255/2256/2257/2258/2259/2260/2261/2262/2263/2264/2265/2266/2267/2268/2269/2270/2271/2272/2273/2274/2275/2276/2277/2278/2279/2280/2281/2282/2283/2284/2285/2286/2287/2288/2289/2290/2291/2292/2293/2294/2295/2296/2297/2298/2299/2300/2301/2302/2303/2304/2305/2306/2307/2308/2309/2310/2311/2312/2313/2314/2315/2316/2317/2318/2319/2320/2321/2322/2323/2324/2325/2326/2327/2328/2329/2330/2331/2332/2333/2334/2335/2336/2337/2338/2339/2340/2341/2342/2343/2344/2345/2346/2347/2348/2349/2350/2351/2352/2353/2354/2355/2356/2357/2358/2359/2360/2361/2362/2363/2364/2365/2366/2367/2368/2369/2370/2371/2372/2373/2374/2375/2376/2377/2378/2379/2380/2381/2382/2383/2384/2385/2386/2387/2388/2389/2390/2391/2392/2393/2394/2395/2396/2397/2398/2399/2400/2401/2402/2403/2404/2405/2406/2407/2408/2409/2410/2411/2412/2413/2414/2415/2416/2417/2418/

BOTTOM CHORD FILLER DETAIL

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

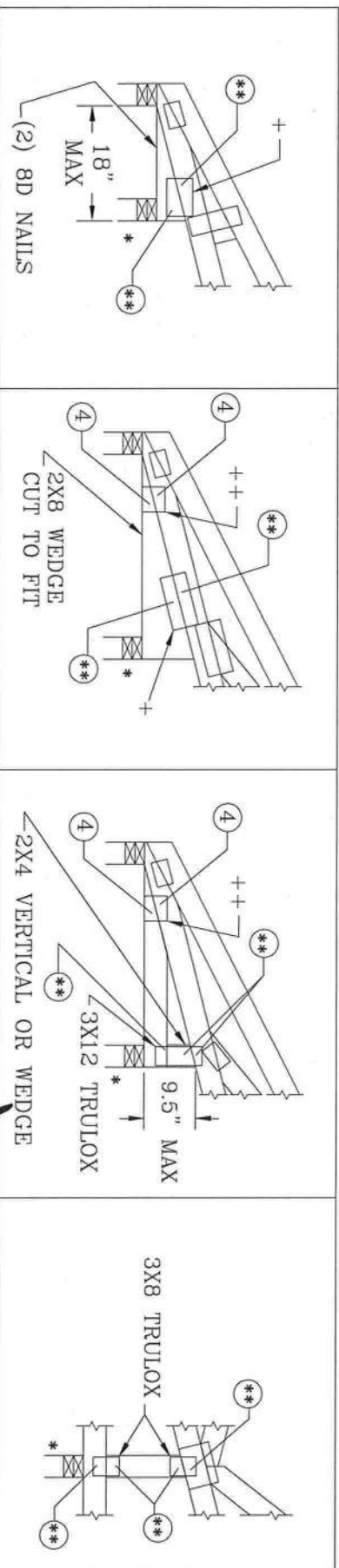
+ 3X4 WAVE OR 4X8 TRULOX
++ 2X4 WAVE OR 3X6 TRULOX

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

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

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

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



THIS DRAWING REPLACES DRAWINGS A115 A115/R & 884.132



TRUBUILDING COMPONENTS GROUP, INC.
POMPAHO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22314 AND VICA WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

PREPARED FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. TPI BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY AREA AND TPI.

TPI, BCG CONNECTOR PLATES ARE MADE OF 2017/1656 (V4/HSS/43) WITH A653 GRADE 40/60 (V4/HSS) AND ARE TESTED TO 100% OF DESIGN STRESS. ALL TRUSSES ARE TO BE INSPECTED AND APPROVED BY A TPI INSPECTOR. 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. 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.

Professional Engineer Seal: JAMES R. COLLINS, No. 52212, State of Florida

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

RECOMMENDED REPAIR PROCEDURE

1. MEASURE DISTANCE FOR NEW LENGTH OF FILLER.

3. CAREFULLY REMOVE EFFECTED CONNECTOR PLATES.

4. TRIM FILLER TO LENGTH, AT EDGE OF NEW VERTICAL SCAB.

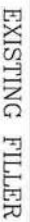
MAXIMUM BOTTOM CHORD LOAD IS 10 PSF.

+ BOTTOM CHORD FILLER TO BE REMOVED. SEE NOTE #3.

++ FIELD APPLIED FILLER.

* 2X4 STUD GRADE OR BETTER VERTICAL SCAB. ATTACH TO BOTTOM CHORD AND FILLER WITH (3) NAILS WITH A MIN. 0.131" DIA. X 3.0" LENGTH.

REFER TO ENGINEER'S SEALED DESIGN
REFERENCING THIS DETAIL FOR ALLOWABLE
FILLER DIMENSIONS, PLACEMENT, AND WEAVING



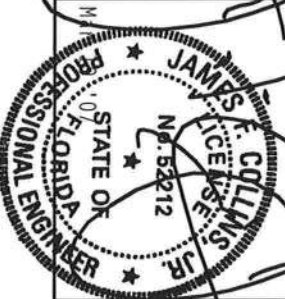
FIELD APPLIED FILLER MUST BE SPF #3
OR BETTER.

THIS DRAWING REPLACES DRAWING 962,767



***VAACONING** TRUSSES REQUIRE EXTREME CARE FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSC (ROOF BUILDING COMPONENTS SAFETY) INFORMATION, PUBLISHED BY THE STEEL INSTITUTE, 218 NORTH LEXINGTON, SUITE 312, ALEXANDRIA, VA 22304 AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), INC., 530 NORTH DEARBORN, SUITE 700, CHICAGO, IL 60610. TRUSS COUNCIL, INC., 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THE WORK. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL ANCHORS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCG, INC., SHALL BE RESPONSIBLE FOR ANY INFORMATION FROM THIS DESIGN AND ALLOW TO BUILD THE TRUSS IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE DESIGN. THE TRUSS DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF US NATIONAL DESIGN SPEC. BY A360 AND PER AISC. BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA U.S./SS/CS ASTM A653 GRADE 50 1/60 U.S./K/SS GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND AN OVERLAPED LAYOUT IN THIS DESIGN. POSITION PER DRAWINGS 1604-Z. ANY INSPECTION OF PLATES FOLLOWED BY CP SHALL BE PER DESIGN. AS PER RESOLUTION SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE BY PROFESSIONAL ENGINEER. THE SEAL OF THE DESIGNER IS THE SEAL OF THE BUILDING DESIGNER. THE SEAL OF THE PER USER OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER USN1/PI1 SEC. 2.



EFFECTIVE MARCH 1, 2002

Applicant	Plans Examiner	
☒	☐	All drawings must be clear, concise and drawn to scale ("Optional details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☒	☐	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☒	☐	<u>Site Plan including:</u> - Dimensions of lot - Dimensions of building set backs - Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. - Provide a full legal description of property.
☒	☐	<u>Wind-load Engineering Summary, calculations and any details required</u> - Plans or specifications must state compliance with FBC Section 1606 - The following information must be shown as per section 1606. 7 FBC - Basic wind speed (MPH) - Wind importance factor (I) and building category - Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated - The applicable internal pressure coefficient - Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☒	☐	<u>Elevations including:</u> - All sides - Roof pitch - Overhang dimensions and detail with attic ventilation - Location, size and height above roof of chimneys - Location and size of skylights - Building height - Number of stories

Floor Plan including:

- a) Rooms labeled and dimensioned
- b) Shear walls
- c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
- d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
- e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
- f) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

- a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling
- d) Location of any vertical steel

Roof System:

- a) Truss package including:
 - 1. Truss layout and truss details signed and sealed by FL Pro. Eng.
 - 2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- b) Conventional Framing Layout including:
 - 1. Rafter size, species and spacing
 - 2. Attachment to wall and uplift
 - 3. Ridge beam sized and valley framing and support details
 - 4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

- a) Masonry wall
 - 1. All materials making up wall
 - 2. Block size and mortar type with size and spacing of reinforcement
 - 3. Lintel, tie-beam sizes and reinforcement
 - 4. Gable ends with rake beams showing reinforcement (if gable truss and wall bracing details)
 - 5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
 - 6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
 - 7. Fire resistant construction (if required)
 - 8. Fireproofing requirements
 - 9. Shoe type of termite treatment (termicide or alternative method)
 - 10. Slab on grade
 - a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
 - 11. Indicate where pressure treated wood will be placed
 - 12. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (F 3C104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termicide or alternative method)
11. Slab on grade
 - a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed)
 - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and support
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
 - a. Attic space
 - b. Exterior wall cavity
 - c. Crawl space (if applicable)

c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

- a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
- b) Floor joist size and spacing
- c) Girder size and spacing
- d) Attachment of joist to girder
- e) Wind load requirements where applicable

Plumbing Fixture Layout

Electrical Layout including:

- a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- b) Ceiling fans
- c) Smoke detectors
- d) Service panel and sub-panel size and location(s)
- e) Meter location with type of service entrance (overhead or underground)
- f) Appliances and HVAC equipment

HVAC Information

- a) Manual J sizing equipment or equivalent computation
- b) Exhaust fans in bathroom

Energy Calculations (dimensions shall match plans)

Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner/Builder

Notice Of Commencement

Private Potable Water

- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

Residential System Sizing Calculation

Summary

Jan & LeAnn Whitlow
4025 SW Steward Loop
Lake City, FL

Project Title:
Whitlow

Code Only
Professional Version
Climate: North

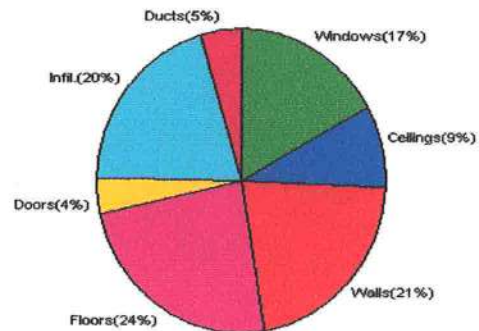
3/27/2007

Location for weather data: Gainesville - User customized: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	99 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	24 F
Total heating load calculation	24426 Btuh	Total cooling load calculation	31744 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	147.4 36000	Sensible (SHR = 1)	153.2 36000
Heat Pump + Auxiliary(0.0kW)	147.4 36000	Latent	0.0 0
		Total (Electric Heat Pump)	113.4 36000

WINTER CALCULATIONS

Winter Heating Load (for 1674 sqft)

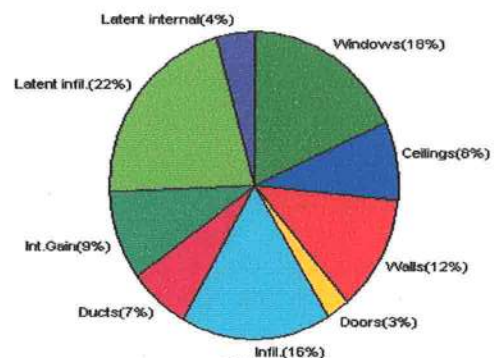
Load component		Load	
Window total	147 sqft	4160	Btuh
Wall total	1608 sqft	5242	Btuh
Door total	63 sqft	947	Btuh
Ceiling total	1674 sqft	2176	Btuh
Floor total	188 ft	5941	Btuh
Infiltration	112 cfm	4797	Btuh
Subtotal		23263	Btuh
Duct loss		1163	Btuh
TOTAL HEAT LOSS		24426	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1674 sqft)

Load component		Load	
Window total	147 sqft	5857	Btuh
Wall total	1608 sqft	3838	Btuh
Door total	63 sqft	803	Btuh
Ceiling total	1674 sqft	2645	Btuh
Floor total		0	Btuh
Infiltration	198 cfm	5223	Btuh
Internal gain		3000	Btuh
Subtotal(sensible)		21366	Btuh
Duct gain		2137	Btuh
Total sensible gain		23503	Btuh
Latent gain(infiltration)		6861	Btuh
Latent gain(internal)		1380	Btuh
Total latent gain		8241	Btuh
TOTAL HEAT GAIN		31744	Btuh



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: *[Signature]*

DATE: 3-27-07

System Sizing Calculations - Winter

Residential Load - Component Details

Jan & LeAnn Whitlow
4025 SW Steward Loop
Lake City, FL

Project Title:
Whitlow

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 39.0 F

3/27/2007

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	23.0	28.3	651 Btuh
2	2, Clear, Metal, DEF	E	75.0	28.3	2122 Btuh
3	2, Clear, Metal, DEF	S	4.0	28.3	113 Btuh
4	2, Clear, Metal, DEF	W	45.0	28.3	1274 Btuh
Window Total			147		4160 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	11.0	1381	3.5	4834 Btuh
2	Frame - Adjacent	11.0	227	1.8	409 Btuh
Wall Total			1608		5242 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		42	17.9	753 Btuh
2	Wood - Adjac		21	9.2	193 Btuh
Door Total			63		947Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	1674	1.3	2176 Btuh
Ceiling Total			1674		2176Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	188.0 ft(p)	31.6	5941 Btuh
Floor Total			188		5941 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	16740(sqft)	112	4797 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				112	4797 Btuh

Totals for Heating	Subtotal	23263 Btuh
	Duct Loss(using duct multiplier of 0.05)	1163 Btuh
	Total Btuh Loss	24426 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

System Sizing Calculations - Summer

Residential Load - Component Details

Jan & LeAnn Whitlow
4025 SW Steward Loop
Lake City, FL

Project Title:
Whitlow

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 3/27/2007

Window	Type	Overhang		Window Area(sqft)			HTM		Load	
	Panes/SHGC/U/InSh/ExSh Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, DEF, B, N	N	1.5	8	23.0	0.0	23.0	17	17	391 Btuh
2	2, Clear, DEF, B, N	E	1.5	8	75.0	11.7	63.3	17	48	3238 Btuh
3	2, Clear, DEF, B, N	S	1.5	8	4.0	4.0	0.0	17	26	68 Btuh
4	2, Clear, DEF, B, N	W	1.5	8	45.0	0.0	45.0	17	48	2160 Btuh
Window Total					147					5857 Btuh
Walls	Type	R-Value			Area		HTM		Load	
1	Frame - Exterior	11.0			1381.0		2.5		3452 Btuh	
2	Frame - Adjacent	11.0			227.0		1.7		386 Btuh	
Wall Total					1608.0				3838 Btuh	
Doors	Type	R-Value			Area		HTM		Load	
1	Wood - Exter				42.0		12.7		535 Btuh	
2	Wood - Adjac				21.0		12.7		268 Btuh	
Door Total					63.0				803 Btuh	
Ceilings	Type/Color	R-Value			Area		HTM		Load	
1	Under Attic/Dark	30.0			1674.0		1.6		2645 Btuh	
Ceiling Total					1674.0				2645 Btuh	
Floors	Type	R-Value			Size		HTM		Load	
1	Slab-On-Grade Edge Insulation	0.0			188.0 ft(p)		0.0		0 Btuh	
Floor Total					188.0				0 Btuh	
Infiltration	Type	ACH			Volume		CFM=		Load	
	Natural	0.35			16740		97.8		2583 Btuh	
	Mechanical						100		2640 Btuh	
	Infiltration Total						198		5223 Btuh	

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	X 300 +	1200	3000 Btuh

Totals for Cooling	Subtotal	21366 Btuh
	Duct gain(using duct multiplier of 0.10)	2137 Btuh
	Total sensible gain	23503 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	6861 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
TOTAL GAIN		31744 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

Florida Building Code Online



Florida Building Code Information System

FLORIDA BUILDING CODE

Overview User Registration Organization Application Search Activation

Select the organization type, status, or name to find an organization

Organization Type: Product Manufacturer

Approval Status: (All)

Organization Name: General American Door - Product Manufacturer

Cancel

Search

Result List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expiry	Status
General American Door	Montgomery	Jane Campbell	6308591000	Product Manufacturer	01/01/2009	Approved
Org Code: PDM	System ID: 3585	Site Link: www.gadco.com				

Displaying 1-1 of 1

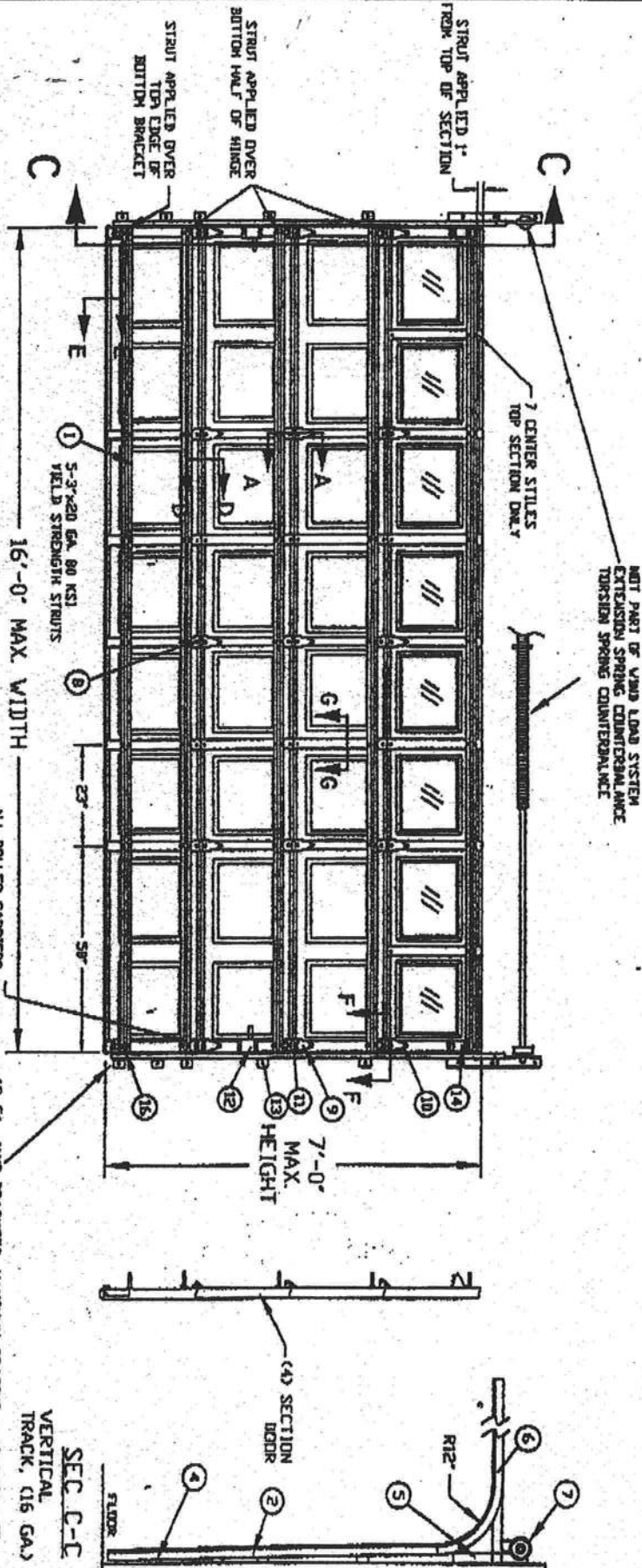
Copyright 2004 by Florida Building Code Council. All rights reserved. This system is a registered trademark of the Florida Building Code Council. All other trademarks are the property of their respective owners.

http://www.floridabuilding.org/Common/c_org_reg_SRCH.asp

6/21/2004

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND PRESSURE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT: 21'
3. SECTION HEIGHTS OF 21'0" AND 19'6" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. VARIOUS MAY BE INSTALLED IN THE TOP SECTION, AS TESTED WITH LVR, RSG GLASS OR EQUIVALENT, OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER STEM IS 5/8" C7 AS TESTED
6. THE STOUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWAL.
7. STOUTS SECURED AT ALL LOCATIONS WITH 7/16" SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE Q1, OR Q2 AS TESTED.
9. DROP IN TYPE OF INSULATION IS OPTIONAL.



The seal on this drawing only represents the product(s) illustrated and described herein. The seal on this drawing only represents the product(s) illustrated and described herein.



LISTED
SECTION
REPORT No. 2202

INSIDE ELEVATION

TEST REPORTS ON FILE VIDEO 10/19/00 0002933

GATED DOORS

SERIES 7400, EXTERIOR STEEL = 0.07 MIN GUS TESTED
SERIES 7825, EXTERIOR STEEL = 0.07 MIN A
SERIES 7524, EXTERIOR STEEL = 0.04 MIN A
TESTED WITH WINDOWS

MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STYLE SPACING	STROBS TO KSI		VERTICAL TRACK
			SIZE	QTY.	
16'	7'	23"	3"	5	2 IN.

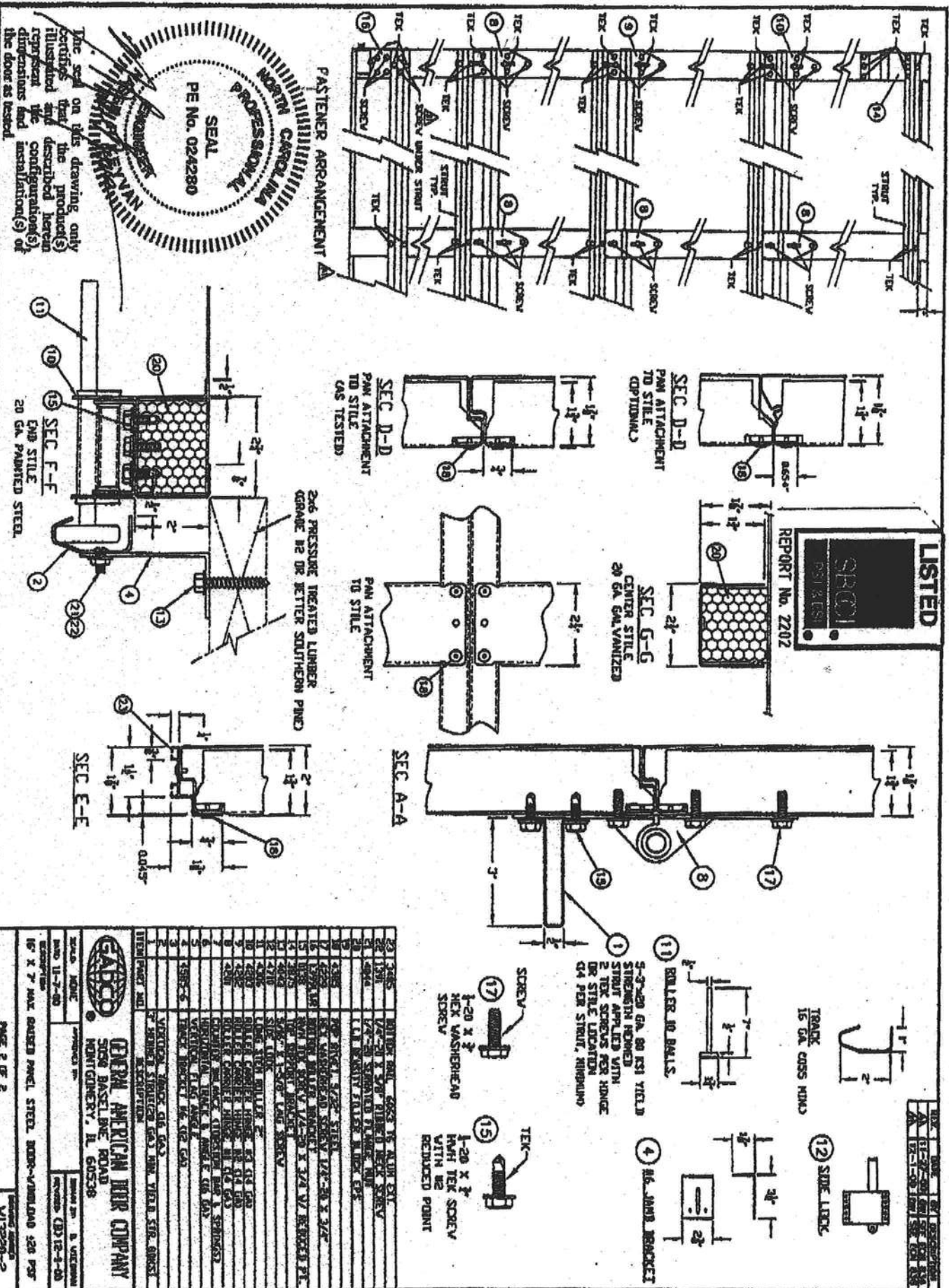


GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

DESIGN LOAD +200 PSF & -200 PSF
TEST LOAD +300 PSF & -300 PSF

DATE: 10-20-10
REVISION: (A) 11-10-10
APPROVED BY: [Signature]
DESIGNED BY: [Signature]

16' X 7' MAX. RAISED PANEL STEEL DOOR - WINDLOAD 50 PSF
PAGE 1 OF 2
V13220-1



ITEM	DESCRIPTION	QTY	UNIT
1	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
2	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
3	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
4	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
5	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
6	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
7	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
8	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
9	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
10	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
11	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
12	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
13	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
14	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
15	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
16	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
17	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
18	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
19	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
20	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
21	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
22	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
23	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
24	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
25	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
26	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
27	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
28	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
29	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
30	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
31	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
32	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
33	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
34	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
35	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
36	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
37	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
38	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
39	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
40	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
41	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
42	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
43	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
44	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
45	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
46	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
47	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
48	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
49	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
50	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
51	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
52	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
53	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
54	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
55	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
56	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
57	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
58	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
59	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
60	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
61	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
62	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
63	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
64	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
65	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
66	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
67	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
68	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
69	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
70	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
71	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
72	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
73	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
74	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
75	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
76	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
77	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
78	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
79	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
80	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
81	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
82	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
83	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
84	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
85	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
86	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
87	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
88	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
89	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
90	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
91	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
92	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
93	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
94	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
95	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
96	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
97	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
98	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
99	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA
100	1-20 x 1/2" HEX WASHHEAD SCREW	100	EA

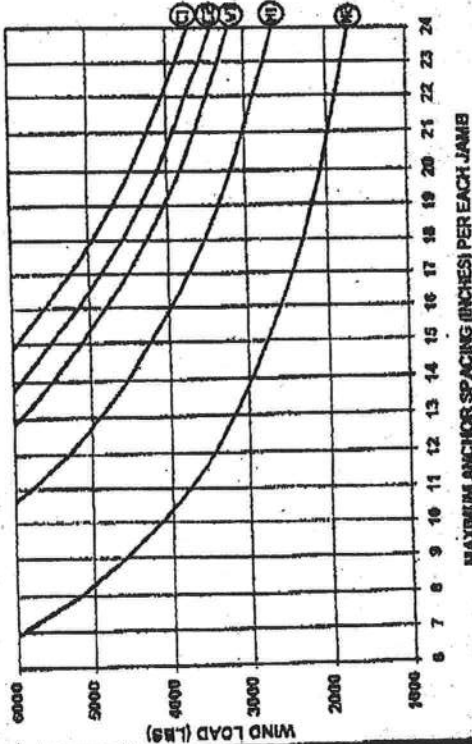
GENERAL AMERICAN DOOR COMPANY
SIOUX FALLS, SD 57105
MONTGOMERY, IL 60538

16" X 7" MAX GAISED PANEL, STEEL, BDR-V/BLD 428 PSF

PAVE 2 OF 2

VI3220-2

WIND LOAD vs ANCHOR SPACING



EXAMPLE

30 LBS. X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

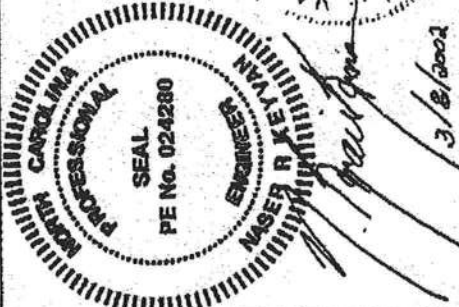
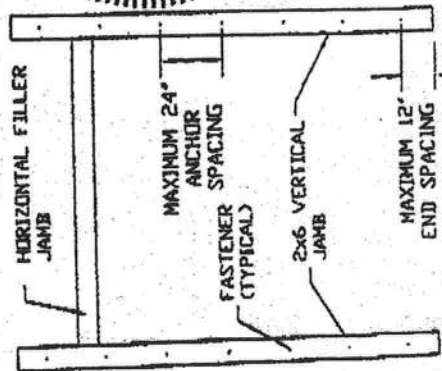
⑩ USE 22" SPACING

⑨ USE 21" SPACING

⑧ USE 19" SPACING

SEE NOTE 11 FOR ADDITIONAL

REQUIREMENTS FOR 2X6 WOOD JAMB ANCHORS



3/8/2002

2X6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2X6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

- 1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.
- 2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION SSTD 10," CURRENT EDITION.
- 3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.
- 4) WOOD FRAME BUILDINGS STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.
- 5) REINFORCED CMU OR CONCRETE 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C50 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2500 PSI GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- 6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.
- 7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4".
- 8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.
- 9) WASHERS ARE REQUIRED ON ALL FASTENERS.
- 10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.
- 11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

GENERAL AMERICAN DOOR COMPANY 5000 BASELINE ROAD MONTGOMERY, IL 60538	
SALES 8-30-99	DESIGNED BY DV
RECEIVED JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS DRAWING NUMBER A10560	

Windows

FLORIDA DEPARTMENT OF Community Affairs



Product Approval
USER: Public User

[BCIS Home](#) | [Log In](#) | [Hot Topics](#) | [Submit Surcharge](#) | [Stats & Facts](#) | [Publications](#) | [FBC Staff](#) | [BCIS Site Map](#) | [Links](#) | [Search](#)

[DCA HOME](#) | [ABOUT DCA](#) | [DCA PROGRAMS](#) | [CONTACT DCA](#)



[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

- ▶ COMMUNITY PLANNING
- ▶ HOUSING & COMMUNITY DEVELOPMENT
- ▶ EMERGENCY MANAGEMENT
- ▶ OFFICE OF THE SECRETARY

FL # FL5108
Application Type New
Code Version 2004
Application Status Approved
Comments
Archived ☐

Product Manufacturer
Address/Phone/Email

MI Windows and Doors
650 W Market St
Gratz, PA 17030
(717) 365-3300 ext 2101
surich@miwd.com

Authorized Signature

Steven Ulrich
surich@miwd.com

Technical Representative
Address/Phone/Email

Quality Assurance Representative
Address/Phone/Email



(Validator / Operations Administrator)

AAMA CERTIFICATION PROGRAM



AUTHORIZATION FOR PRODUCT CERTIFICATION

MI Windows & Doors, Inc.
P.O. Box 370
Gratz, PA 17030-0370

Attn: Bill Emley

The product described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. The approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, accompanied by related drawings, by an AAMA Accredited Laboratory.

- The listing below will be added to the next published AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED				LABEL ORDER NO.
AAMA/NWDOA 101/I.S. 2-97 H-RSS-36x62					
COMPANY AND PLANT LOCATION	CODE NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED		By Request
MI Windows & Doors, Inc. (Oldsmar, FL) MI Windows & Doors, Inc. (Smyrna, TN)	MTL-8 MTL-9	189/3165 SH (Fin) (AL)(OP)(OG) (ASTM)	<u>FRAME</u> 3'0" x 5'2"	<u>SASH</u> 2'10" x 2'7"	

- This Certification will expire May 14, 2008 and requires validation until then by continued listing in the current AAMA Certified Products Directory.
- Product Tested and Reported by: Architectural Testing, Inc.

Report No.: 01-50360.02

Date of Report: June 14, 2004

NOTE: PLEASE REVIEW,
AND ADVISE ALI IMMEDIATELY
IF DATA, AS SHOWN, NEEDS
CORRECTION.

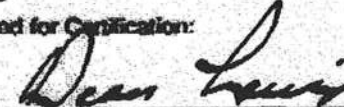
Date: August 1, 2005

cc: AAMA
JGS/di
ACP-04 (Rev. 5/03)

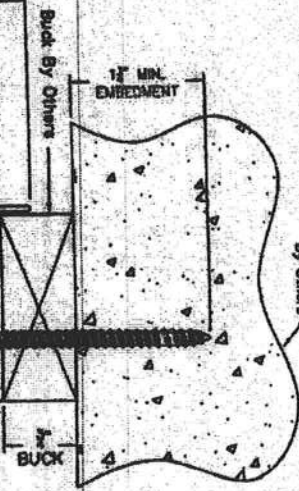
Validated for Certification:


Associated Laboratories, Inc.

Authorized for Certification:

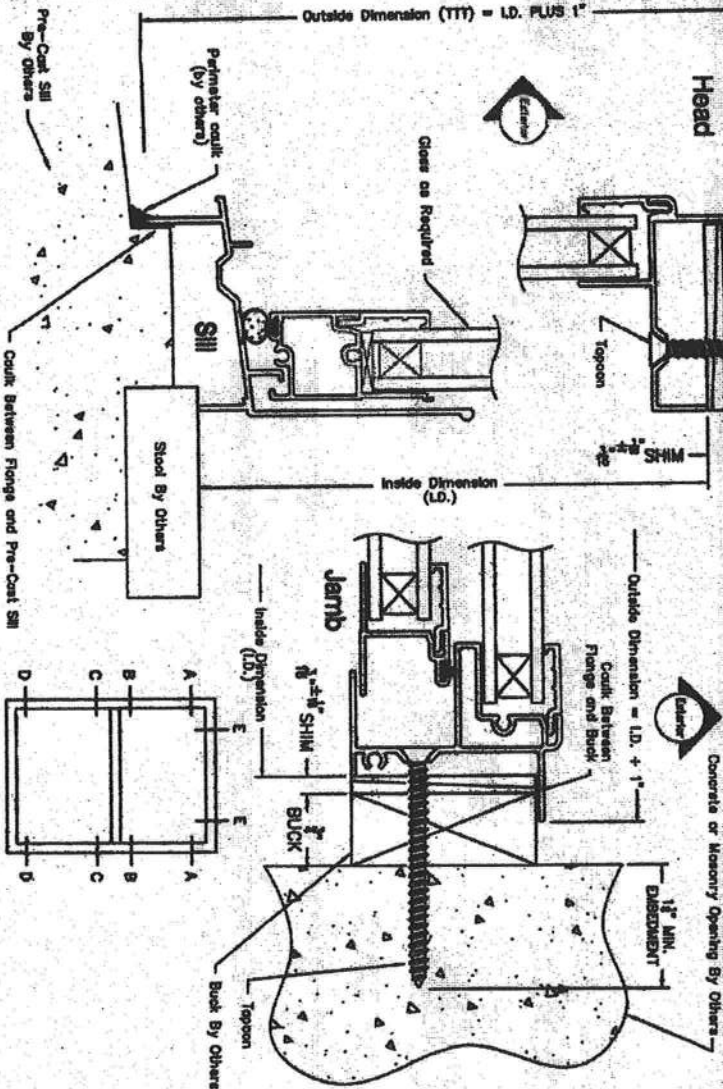

American Architectural Manufacturers Association

Concrete header (shown) or steel lintel By Others



1. Before installation, coulk back of flange, or face of buck.
2. 3/16" dia. masonry Topoon must be of a length to have 1 1/4" embedment into masonry or concrete.
3. Shim as required with load bearing shims at each installation anchor as shown.
4. All factory applied holes not designated for Tapcon anchor should be filled with #10 screws of sufficient length to provide min. 5/8" embedment into wood buck.
5. Letter designations on the Tapcon location chart indicate where anchors are to be installed using the elevation as a key.
6. If exact window size is not given, use anchor quantity for next larger window in chart.
7. For continuous head and sill (wide & triple), use the same fastener schedule for each unit in the main frame except ignore the intermediate jamb.

ONE BY (3/4) BUCKS (SHOWN)



*TAPCON TYPE HARDENED MASONRY SCREENS INCLUDE TAPCON, RAMM, & SIMPSON

TWO BY (1 1/2) BUCKS

TWO BY" bucks are engineered and fastened to the masonry opening BY OTHERS.

Follow the same instructions and fastener requirements for "one by" bucks except use #10 screws of sufficient length for 1 1/4" minimum embedment into buck.

* TAPCON LOCATION CHART

CODE SIZE	WINDOW SIZE	FASTENER LOCATIONS	FASTENER LOCATIONS			
			UP TO DP35	DP35.1 TO DP65	DP65.1 TO DP95.3	DP95.3 TO DP125.3
12	18 1/8 x 25	A D E	A D E	A D E	A D E	A D E
13	18 1/8 x 37 3/8	A D E	A D E	A D E	A D E	A D E
14	18 1/8 x 49 5/8	A D E	A D E	A D E	A D E	A D E
15	18 1/8 x 61 7/8	A D E	A D E	A D E	A D E	A D E
16	18 1/8 x 74	A D E	A D E	A D E	A D E	A D E
17	18 1/8 x 86 1/4	A D E	A D E	A D E	A D E	A D E
18	25 1/2 x 25	A D E	A D E	A D E	A D E	A D E
19	25 1/2 x 37 3/8	A D E	A D E	A D E	A D E	A D E
20	25 1/2 x 49 5/8	A D E	A D E	A D E	A D E	A D E
21	25 1/2 x 61 7/8	A D E	A D E	A D E	A D E	A D E
22	25 1/2 x 74	A D E	A D E	A D E	A D E	A D E
23	36 x 25	A D E	A D E	A D E	A D E	A D E
24	36 x 37 3/8	A D E	A D E	A D E	A D E	A D E
25	36 x 49 5/8	A D E	A D E	A D E	A D E	A D E
26	36 x 61 7/8	A D E	A D E	A D E	A D E	A D E
27	36 x 74	A D E	A D E	A D E	A D E	A D E
28	36 x 86 1/4	A D E	A D E	A D E	A D E	A D E
29	52 1/8 x 25	A D E	A D E	A D E	A D E	A D E
30	52 1/8 x 37 3/8	A D E	A D E	A D E	A D E	A D E
31	52 1/8 x 49 5/8	A D E	A D E	A D E	A D E	A D E
32	52 1/8 x 61 7/8	A D E	A D E	A D E	A D E	A D E
33	52 1/8 x 74	A D E	A D E	A D E	A D E	A D E
34	52 1/8 x 86 1/4	A D E	A D E	A D E	A D E	A D E
35	52 1/8 x 98 5/8	A D E	A D E	A D E	A D E	A D E
36	52 1/8 x 110 7/8	A D E	A D E	A D E	A D E	A D E
37	52 1/8 x 123	A D E	A D E	A D E	A D E	A D E
38	52 1/8 x 135 1/4	A D E	A D E	A D E	A D E	A D E
39	52 1/8 x 147 3/8	A D E	A D E	A D E	A D E	A D E
40	52 1/8 x 159 5/8	A D E	A D E	A D E	A D E	A D E
41	52 1/8 x 171 7/8	A D E	A D E	A D E	A D E	A D E
42	52 1/8 x 184	A D E	A D E	A D E	A D E	A D E
43	52 1/8 x 196 1/4	A D E	A D E	A D E	A D E	A D E
44	52 1/8 x 208 3/8	A D E	A D E	A D E	A D E	A D E
45	52 1/8 x 220 5/8	A D E	A D E	A D E	A D E	A D E
46	52 1/8 x 232 7/8	A D E	A D E	A D E	A D E	A D E
47	52 1/8 x 245	A D E	A D E	A D E	A D E	A D E
48	52 1/8 x 257 1/4	A D E	A D E	A D E	A D E	A D E
49	52 1/8 x 269 3/8	A D E	A D E	A D E	A D E	A D E
50	52 1/8 x 281 5/8	A D E	A D E	A D E	A D E	A D E
51	52 1/8 x 293 7/8	A D E	A D E	A D E	A D E	A D E
52	52 1/8 x 306	A D E	A D E	A D E	A D E	A D E
53	52 1/8 x 318 1/4	A D E	A D E	A D E	A D E	A D E
54	52 1/8 x 330 3/8	A D E	A D E	A D E	A D E	A D E
55	52 1/8 x 342 5/8	A D E	A D E	A D E	A D E	A D E
56	52 1/8 x 354 7/8	A D E	A D E	A D E	A D E	A D E
57	52 1/8 x 367	A D E	A D E	A D E	A D E	A D E
58	52 1/8 x 379 1/4	A D E	A D E	A D E	A D E	A D E
59	52 1/8 x 391 3/8	A D E	A D E	A D E	A D E	A D E
60	52 1/8 x 403 5/8	A D E	A D E	A D E	A D E	A D E
61	52 1/8 x 415 7/8	A D E	A D E	A D E	A D E	A D E
62	52 1/8 x 428	A D E	A D E	A D E	A D E	A D E
63	52 1/8 x 440 1/4	A D E	A D E	A D E	A D E	A D E
64	52 1/8 x 452 3/8	A D E	A D E	A D E	A D E	A D E
65	52 1/8 x 464 5/8	A D E	A D E	A D E	A D E	A D E
66	52 1/8 x 476 7/8	A D E	A D E	A D E	A D E	A D E
67	52 1/8 x 489	A D E	A D E	A D E	A D E	A D E
68	52 1/8 x 501 1/4	A D E	A D E	A D E	A D E	A D E
69	52 1/8 x 513 3/8	A D E	A D E	A D E	A D E	A D E
70	52 1/8 x 525 5/8	A D E	A D E	A D E	A D E	A D E
71	52 1/8 x 537 7/8	A D E	A D E	A D E	A D E	A D E
72	52 1/8 x 550	A D E	A D E	A D E	A D E	A D E
73	52 1/8 x 562 1/4	A D E	A D E	A D E	A D E	A D E
74	52 1/8 x 574 3/8	A D E	A D E	A D E	A D E	A D E
75	52 1/8 x 586 5/8	A D E	A D E	A D E	A D E	A D E
76	52 1/8 x 598 7/8	A D E	A D E	A D E	A D E	A D E
77	52 1/8 x 611	A D E	A D E	A D E	A D E	A D E
78	52 1/8 x 623 1/4	A D E	A D E	A D E	A D E	A D E
79	52 1/8 x 635 3/8	A D E	A D E	A D E	A D E	A D E
80	52 1/8 x 647 5/8	A D E	A D E	A D E	A D E	A D E
81	52 1/8 x 659 7/8	A D E	A D E	A D E	A D E	A D E
82	52 1/8 x 672	A D E	A D E	A D E	A D E	A D E
83	52 1/8 x 684 1/4	A D E	A D E	A D E	A D E	A D E
84	52 1/8 x 696 3/8	A D E	A D E	A D E	A D E	A D E
85	52 1/8 x 708 5/8	A D E	A D E	A D E	A D E	A D E
86	52 1/8 x 720 7/8	A D E	A D E	A D E	A D E	A D E
87	52 1/8 x 733	A D E	A D E	A D E	A D E	A D E
88	52 1/8 x 745 1/4	A D E	A D E	A D E	A D E	A D E
89	52 1/8 x 757 3/8	A D E	A D E	A D E	A D E	A D E
90	52 1/8 x 769 5/8	A D E	A D E	A D E	A D E	A D E
91	52 1/8 x 781 7/8	A D E	A D E	A D E	A D E	A D E
92	52 1/8 x 794	A D E	A D E	A D E	A D E	A D E
93	52 1/8 x 806 1/4	A D E	A D E	A D E	A D E	A D E
94	52 1/8 x 818 3/8	A D E	A D E	A D E	A D E	A D E
95	52 1/8 x 830 5/8	A D E	A D E	A D E	A D E	A D E
96	52 1/8 x 842 7/8	A D E	A D E	A D E	A D E	A D E
97	52 1/8 x 855	A D E	A D E	A D E	A D E	A D E
98	52 1/8 x 867 1/4	A D E	A D E	A D E	A D E	A D E
99	52 1/8 x 879 3/8	A D E	A D E	A D E	A D E	A D E
100	52 1/8 x 891 5/8	A D E	A D E	A D E	A D E	A D E

MI HOME PRODUCTS
GRATZ, PA

185/2185 SINGLE FLANGE FRAME
INSTALLATION DETAILS & FASTENER SCHEDULE

DATE: 08/15/04
SCALE: N.T.S.
SHEET: 1 OF 1

MI HOME PRODUCTS
GRATZ, PA

185/2185 SINGLE FLANGE FRAME
INSTALLATION DETAILS & FASTENER SCHEDULE

DATE: 08/15/04
SCALE: N.T.S.
SHEET: 1 OF 1

Shingle

http://www.floridabuilding.org/pr/pr_app_dtl.aspx?param=WGEVXQwIDqs%2fmGFoyT6...

FLORIDA DEPARTMENT OF Community Affairs



- COMMUNITY PLANNING
- HOUSING & COMMUNITY DEVELOPMENT
- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

BCIS Home | Log In | Hot Topics | Submit Surcharge | Stats & Facts | Publications | FBC Staff | BCIS Site Map | Links | Search

Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > [Application Detail](#)

FL #
Application Type
Code Version
Application Status
Comments
Archived

FL1956-R1
Revision
2004
Approved

Product Manufacturer
Address/Phone/Email

TAMKO Building Products, Inc.
PO Box 1404
Joplin, MO 64802
(800) 641-4691 ext 2394
fred_oconnor@tamko.com

Authorized Signature

Frederick O'Connor
fred_oconnor@tamko.com

Technical Representative
Address/Phone/Email

Frederick J. O'Connor
PO Box 1404
Joplin, MO 64802
(800) 641-4691
fred_oconnor@tamko.com

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory

Roofing
Asphalt Shingles

Compliance Method

Certification Mark or Listing

Certification Agency

Underwriters Laboratories Inc.

Referenced Standard and Year (of Standard)

Standard
ASTM D 3462

Year
2001

Equivalence of Product Standards
Certified By

Product Approval Method

Method 1 Option A

Date Submitted
Date Validated
Date Pending FBC Approval
Date Approved

06/09/2005
06/20/2005
06/25/2005
06/29/2005

Summary of Products

FL #	Model, Number or Name	Description

slopes of 2:12 or greater. Not approved for use in HVHZ.

Back

Next

DCA Administration
Department of Community Affairs
Florida Building Code Online
Codes and Standards

2555 Shumard Oak Boulevard
 Tallahassee, Florida 32399-2100
 (850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

© 2000-2005 The State of Florida. All rights reserved. Copyright and Disclaimer

Product Approval Accepts:





Underwriters Inc.

June 17, 2005

Tamko Roofing Products
Ms. Kerri Eden
P.O. Box 1404
220 W. 4th Street
Joplin, MO 64802-1404

Our Reference: R2919

This is to confirm that "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage 50 AR", "Glass-Seal AR" manufactured at Tuscaloosa, AL and "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage XL AR", "Heritage 50 AR", "Heritage XL AR", and "Heritage 50 AR" manufactured in Dallas, TX are UL Listed asphalt glass mat shingles and have been evaluated in accordance with ANSI/UL 790, Class A (ASTM E108), ASTM D3462, ASTM D3161 or UL 997 modified to 110 mph when secured with four nails.

Let me know if you have any further questions.

Very truly yours,

Alpesh Patel (Ext. 42522)
Engineer Project
Fire Protection Division

Reviewed by,

Randall K. Laymon (Ext. 42687)
Engineer Sr Staff
Fire Protection Division

333 Pringle Road
Northbrook, IL 60062-2006 USA
www.ul.com
Tel: 1 847 272 6900

4

4

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

TAMKO does not recommend re-roofing over existing roof.

2. VENTILATION

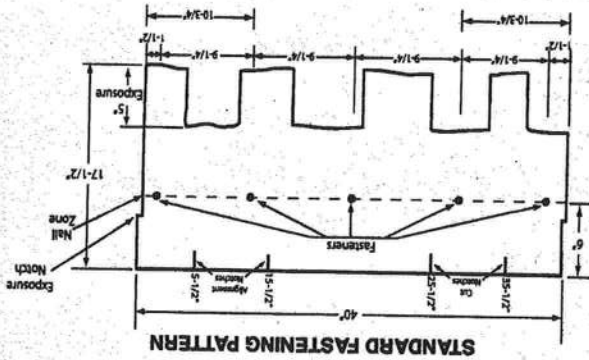
Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement
3. Rotting of wood members
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents. FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

2) Mansard or Steep Slope Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.



1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

3. FASTENERS

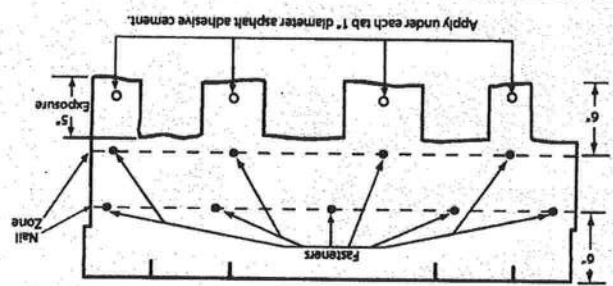
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

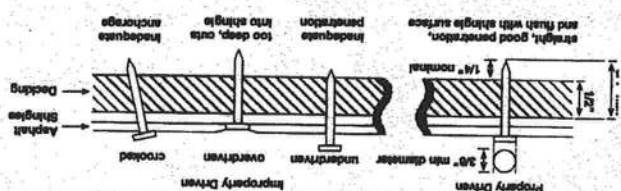
FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a \$.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.

MANSARD FASTENING PATTERN



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12 gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

Products which are acceptable for use as underlayment are:

- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TV Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional services department for more information)

Visit Our Web Site at
www.tamko.com

Central District
Northeast District
Southeast District
Southwest District
Western District

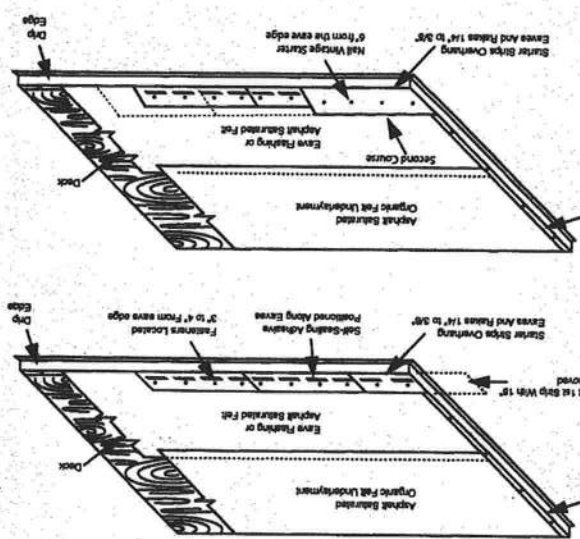
220 West 4th St., Joplin, MO 64801
4500 Tamko Dr., Frederick, MD 21701
2300 35th St., Tuscaloosa, AL 35401
7910 S. Central Exp., Dallas, TX 75216
5300 East 43rd Ave., Denver, CO 80216

800-641-4691
800-368-2055
800-228-2656
800-443-1834
800-530-8868

(Continued)

HERITAGE VINTAGE STARTER AR
12 1/2" x 36" 20 PIECES PER BUNDLE
60 LINEAL FT. PER BUNDLE

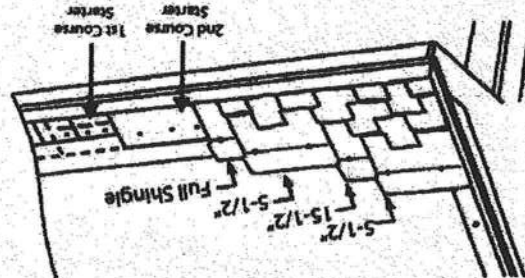
Note: Do not allow Vintage Starter AR joints to be visible between shingle tabs. Cutting of the starter may be required.



5. APPLICATION INSTRUCTIONS
STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles. The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.

shingle underlayment. TAMKO does not recommend the use of any substitute products as TAMKO's Technical Services Department for more information. chimneys, skylights or dormers to help prevent water damage. Contact ing product) may be applied to eaves, rakes, ridges, valleys, around frozen or clogged gutters is a potential problem. TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flash- areas where ice builds up along the eaves or a back-up of water from

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge $1/4$ in. to $3/8$ in. To begin the second course, align the right side of the shingle with the $5-1/2$ in. exposure notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is $1/4$ to $3/8$ in. For the third course, align the shingle with the $15-1/2$ in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the $5-1/2$ in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



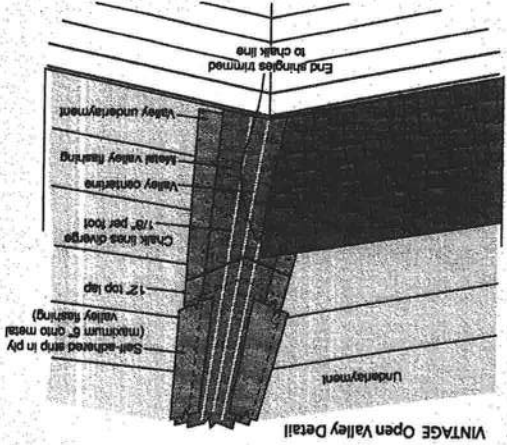
6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by $1/4$ to $3/4$ in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of at least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION

TAMKO recommends an open valley construction with Heritage Vintage AR shingles. To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley. After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12 " and cemented.

CAUTION: Adhesive must be applied in smooth, thin, even layers. Excessive use of adhesive will cause blistering to this product. TAMKO assumes no responsibility for blistering.



- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3 " to either side of the valley centerline.
- The lower end should diverge from each other by $1/8$ " per foot. Thus, for an 8' long valley, the chalk lines should be 7 " either side of the centerline at the eaves and for a 16 ' valley 8 ".
- As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12 " in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a longer portion to be used.
- Clip 1 " from the upper corner of each shingle on a 45° angle to direct water into the valley and prevent it from penetrating between the courses.
- Form a tight seal by cementing the shingle to the valley lining with a 3 " width of asphalt plastic cement (conforming to ASTM D 4586).

SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)

Following valley metal application, a 9 " to 12 " wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6" onto metal valley flashing) and on top of the valley underlayment. The valley will be completed with shingle application.



BUILDING PRODUCTS

HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

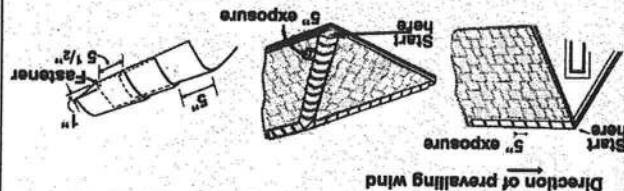
(CONTINUED from Pg. 3)

8. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Hip & Ridge shingle products.

Fasteners should be 1/4 in. longer than the ones used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLE IN COLD WEATHER.



THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

TAMKO®, Moisture Guard Plus®, Nail Fast® and Heritage® are registered trademarks and Vintage™ is a trademark of TAMKO Building Products, Inc.

Visit Our Web Site at
www.tamko.com

Central District
 Northeast District
 Southeast District
 Southwest District
 Western District

220 West 4th St., Joplin, MO 64801
 4500 Tamko Dr., Frederick, MD 21701
 2300 35th St., Tuscaloosa, AL 35401
 7910 S. Central Exp., Dallas, TX 75216
 5300 East 43rd Ave., Denver, CO 80216

800-641-4691
 800-368-2055
 800-228-2656
 800-443-1834
 800-530-8868

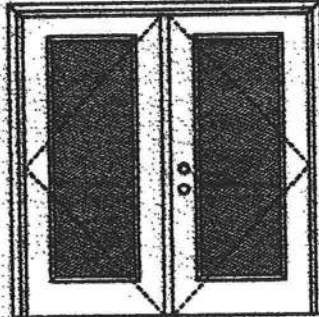
JPE5805

05/06

4

XX**Glazed Outswing Unit**

30P WL-JH4162-02

WOOD-EDGE STEEL DOORS**APPROVED ARRANGEMENT:****Note:**

Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'6".

Double Door

Maximum unit size = 6'6" x 6'6"

Design Pressure**+40.5/-40.5**

Limited water unless special threshold design is used.

Large Missile Impact Resistance**Hurricane protective system (shutters) is REQUIRED.**

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed — see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed — see MID-WL-MA0002-02.

APPROVED DOOR STYLES:**1/4 GLASS:**

100 Series



133, 135 Series



130 Series



080 Series



822 Series

1/2 GLASS:

105 Series*



106, 160 Series*



120 Series*



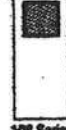
280 Series*



12 R/L, 23 R/L, 24 R/L Series*



107 Series*



108 Series



304 Series

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

Johnson
EntrySystems

March 29, 2002
Our continuing program of product improvement meets specifications, design and product detail subject to change without notice.

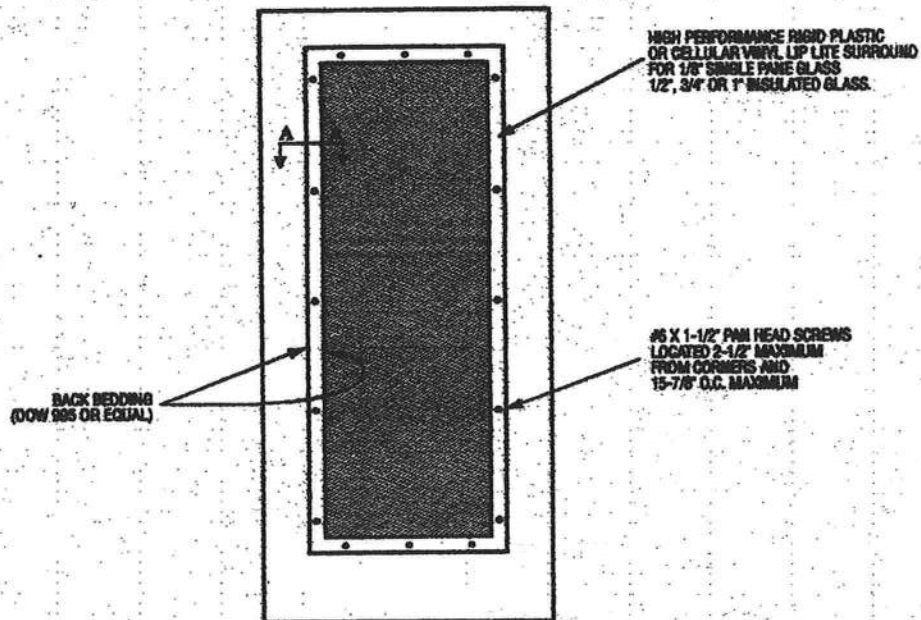
PREMIER Collection
Premium Quality Doors



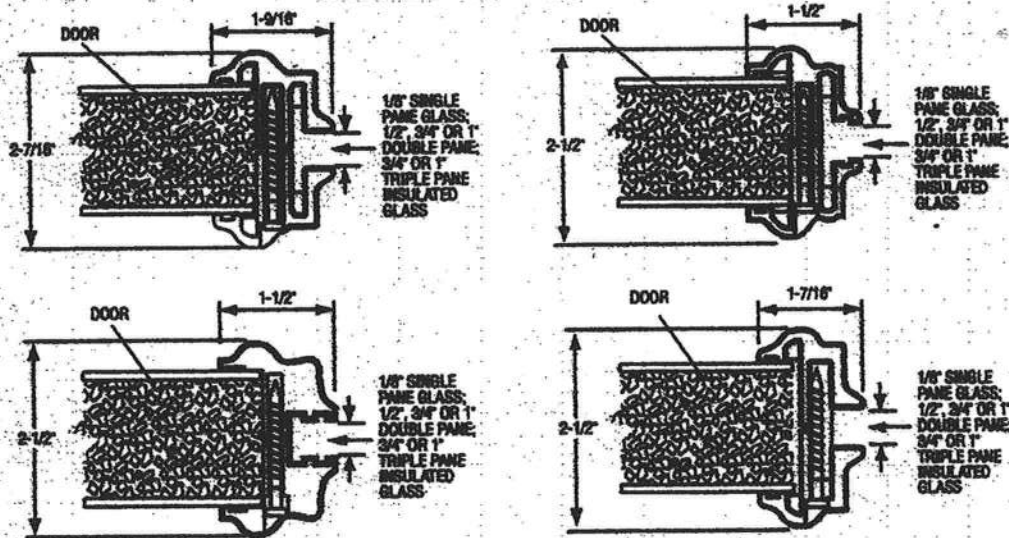
Exclusively from

Masonite
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A TYPICAL RIGID PLASTIC LIP LITE SURROUND



WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES: 3/4 GLASS:



404 Series



410 Series

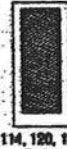


450 Series

FULL GLASS:



100 Series



114, 120, 122 Series



152 Series



140 Series



300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthaz

State of Florida, Professional Engineer
Kurt Balthazor, P.E. - License Number 56533

Johnson
EntrySystems

March 29, 2002
Our continuing program of product improvement makes specifications, designs and product detail subject to change without notice.

PREMIER Collection
Premium Quality Doors



Exclusively from

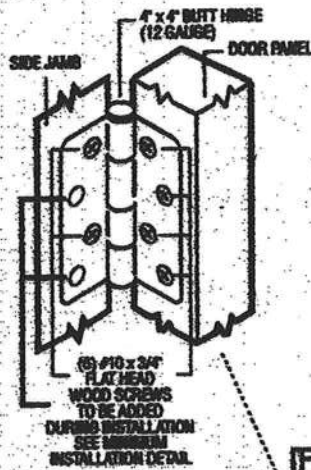
Masonite
Masonite International Corporation

XX
Unit

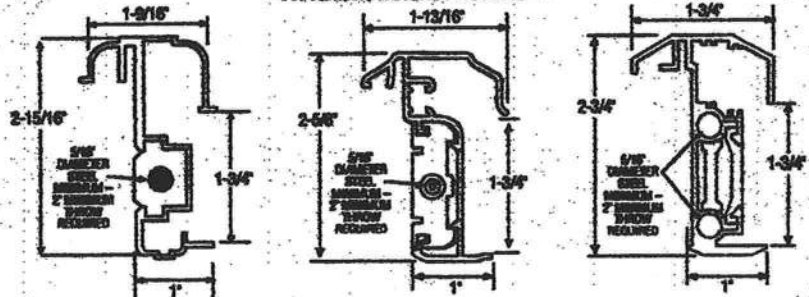
17AD-WL-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR

TYPICAL HINGE ATTACHMENT

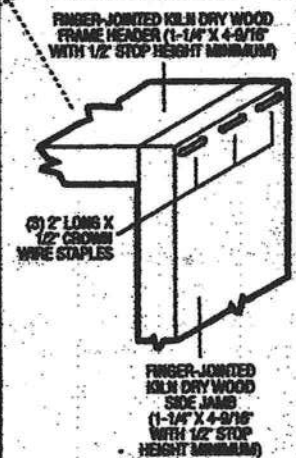


TYPICAL ASTRAGAL PROFILES



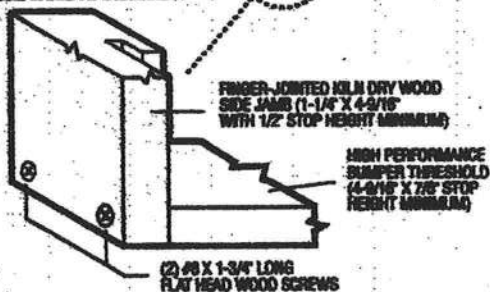
ALUMINUM EXTRUDED ASTRAGAL (0.06\"/>

TYPICAL HEADER & SIDE JAMB ATTACHMENT



(3) FOR 7'0\"/>

TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



March 25, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



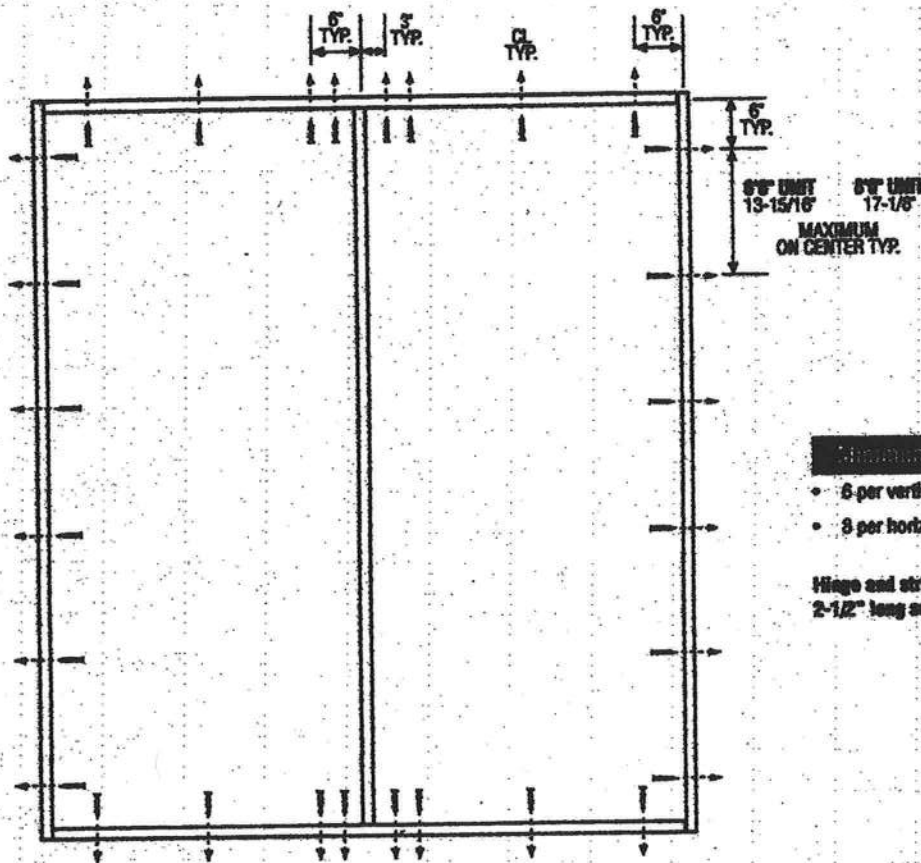
Exclusively from

Masonite
Masonite International Corporation

XX
Unit

IND-WL-MA0002-02

DOUBLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 3 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AP & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade County approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

March 29, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMIER Collection
Premium Quality Doors



Exclusively from

Masonite
Masonite International Corporation