

2

10-051

AMERICAN TITLE SERVICES
321 SW MAIN BLVD, STE 105
LAKE CITY, FLORIDA 32025

NOTICE OF COMMENCEMENT

RECORDATION REQUESTED BY:
First Federal Bank of Florida
4705 Hwy 90 West
Lake City, Florida 32055

WHEN RECORDED MAIL TO:
First Federal Bank of Florida
P.O. Box 2029, Lake City,
Florida 32056

SEND TAX NOTICES TO:
First Federal Bank of Florida
4705 Hwy 90 West
Lake City, Florida 32055

FOR RECORDER'S USE ONLY

Residential

1. The legal description of the real property on which the improvement is to be is as follows:
SEE EXHIBIT 'A' ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF.

2. Owner or Lessee of the real property contracting for the improvement:
Name: KYLE KEEN JR, BRANDI B KEEN
Address: TBD SW TIMBERLAND CT., LAKE CITY, FLORIDA 32024
Capacity (Owner, Lessee, Part Owner, Land Contract Vendee, etc.): KYLE KEEN JR and BRANDI B KEEN husband and wife



3. Fee Owner of the real property (if the person contracting for the improvement above is a Land Contract Vendee or Lessee):
Name: KYLE KEEN JR, BRANDI B KEEN
Address: TBD SW TIMBERLAND CT., LAKE CITY, FLORIDA 32024
4. Owner or Lessee's Designee:
Name: KYLE KEEN JR, BRANDI B KEEN
Address: TBD SW TIMBERLAND CT., LAKE CITY, FLORIDA 32024
5. General Contractor, if any:
Name:
Address:

WARNING TO HOMEOWNER

Michigan law requires that you do the following:

1. Complete and return this form to the person who asked for it within 10 days after the date of the postmark on the request.
2. If you do not complete and return this form within the 10 days you may have to pay the expenses incurred in getting the information.
3. If you do not live at the site of the improvement, you must post a copy of this form in a conspicuous place at that site.

You are not required to but should do the following:

1. Complete and post a copy of this form at the place where the improvement is being made, even if you live there.
2. Make and keep a copy of this form for you own records.

TO LIEN CLAIMANTS AND SUBSEQUENT PURCHASERS

Take notice that work is about to commence on an improvement to the real property described in this instrument. A person having a construction lien may preserve the lien by providing a Notice of Furnishing to the above named Designee and the General Contractor, if any, and by timely recording a claim of lien, in accordance with law.

A person having a construction lien arising by virtue of work performed on this improvement should refer to the name of the Owner or Lessee and the legal description appearing in this Notice. A person subsequently acquiring an interest in the land described is not required to be named in a claim of lien.

A copy of this Notice with an attached form for Notice of Furnishing may be obtained upon making a written request by certified mail to the above named Owner or Lessee; the Designee; or the person with whom you have contracted.

Exhibit "A"

Lots **82 and 83, EMERALD COVE SUBDIVISION**, a subdivision according to the Plat thereof as recorded in Plat Book 8 Pages 68-69, of the Public Records of COLUMBIA COUNTY, FLORIDA.

A handwritten signature or set of initials, possibly reading 'E.C.', enclosed within a circular or oval loop.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name: 1101072PlumbLevelConstructionKyleKeenRes		Builder Name: Plumb Level Construction	
Street: Lot 82 & 83 Emerald Cove		Permit Office:	
City, State, Zip: , FL ,		Permit Number:	
Owner: Kyle Keen		Jurisdiction: 221000	
Design Location: FL, Gainesville			

1. New construction or existing		New (From Plans)	
2. Single family or multiple family		Single-family	
3. Number of units, if multiple family		1	
4. Number of Bedrooms		4	
5. Is this a worst case?		Yes	
6. Conditioned floor area (ft²)		2304	
7. Windows	Description	Area	
a. U-Factor:	Dbl, U=0.75	301.22 ft²	
	SHGC=0.55		
b. U-Factor:	N/A	ft²	
	SHGC:		
c. U-Factor:	N/A	ft²	
	SHGC:		
d. U-Factor:	N/A	ft²	
	SHGC:		
e. U-Factor:	N/A	ft²	
	SHGC:		
8. Floor Types	Insulation	Area	
a. Slab-On-Grade Edge Insulation	R=0.0	2056.00 ft²	
b. N/A	R=	ft²	
c. N/A	R=	ft²	

9. Wall Types	Insulation	Area
a. Face Brick - Wood, Exterior	R=13.0	1749.30 ft²
b. Frame - Wood, Adjacent	R=13.0	248.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²
10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	2056.00 ft²
b. Knee Wall (Vented)	R=30.0	465.00 ft²
c. N/A	R=	ft²
11. Ducts		
a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6,	460.8 ft²	
12. Cooling systems		
a. Central Unit	Cap: 51.0 kBtu/hr	
	SEER: 13	
13. Heating systems		
a. Electric Heat Pump	Cap: 51.0 kBtu/hr	
	HSPF: 7.7	
14. Hot water systems		
a. Electric	Cap: 40 gallons	
	EF: 0.92	
b. Conservation features		
None		
15. Credits		None

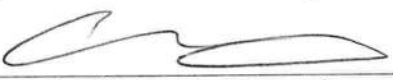
Glass/Floor Area: 0.131

Total As-Built Modified Loads: 40.49

Total Baseline Loads: 47.84

PASS

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

PREPARED BY: 

DATE: 1/31/11 EVAN BEAMSELEY

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

OWNER/AGENT: _____

DATE: _____

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: _____



PROJECT										
Title:	1101072PlumblevelConstructi			Bedrooms:	4		Adress Type:	Street Address		
Building Type:	FLAsBuilt			Conditioned Area:	2304		Lot #			
Owner:	Kyle Keen			Total Stories:	2		SubDivision:			
# of Units:	1			Worst Case:	Yes		PlatBook:			
Builder Name:	Plumb Level Construction			Rotate Angle:	315		Street:	Lot 82 & 83 Emerald Co		
Permit Office:				Cross Ventilation:			County:	Columbia		
Jurisdiction:				Whole House Fan:			City, State, Zip:	, FL ,		
Family Type:	Single-family									
New/Existing:	New (From Plans)									
Comment:										

CLIMATE										
✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS									
✓	#	Floor Type	Perimeter	R-Value	Area	Tile	Wood	Carpet	
_____	1	Slab-On-Grade Edge Insulatio	225 ft	0	2056 ft²	0.3	0.3	0.4	

ROOF										
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Gable or shed	Composition shingles	2299 ft²	514 ft²	Dark	0.96	No	0	26.6 deg

ATTIC							
✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	300	2056 ft²	N	N

CEILING						
✓	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	30	2056 ft²	0.11	Wood
_____	2	Knee Wall (Vented)	30	465 ft²	0.11	Wood

WALLS									
✓	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	N	Exterior	Face Brick - Wood	13	446.67 ft²	0	0.23	0.75
_____	2	E	Exterior	Face Brick - Wood	13	406.67 ft²	0	0.23	0.75
_____	3	S	Exterior	Face Brick - Wood	13	269.33 ft²	0	0.23	0.75
_____	4	W	Exterior	Face Brick - Wood	13	434.67 ft²	0	0.23	0.75
_____	5	S	Garage	Frame - Wood	13	248 ft²		0.23	0.01
_____	6	S	Exterior	Face Brick - Wood	13	192 ft²	0	0.23	0.75

DOORS													
✓	#	Ornt	Door Type			Storms	U-Value		Area				
	1	N	Insulated			None	0.4		26.66666				
	2	S	Insulated			None	0.400000		17.77777				
	3	S	Insulated			None	0.4		20 ft²				
WINDOWS													
Orientation shown is the entered orientation (=>) changed to Worst Case.													
✓	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang		Int Shade	Screening
	1	N=>NW	Metal	Low-E Double	Yes	0.75	0.55	N	15 ft²	8 ft 16 in	1 ft 0 in	HERS 2006	None
	2	N=>NW	Metal	Low-E Double	Yes	0.75	0.55	N	53.33333	7 ft 4 in	1 ft 0 in	HERS 2006	None
	3	N=>NW	Metal	Low-E Double	Yes	0.75	0.55	N	60 ft²	1 ft 6 in	1 ft 0 in	HERS 2006	None
	4	E=>NE	Metal	Low-E Double	Yes	0.75	0.55	N	30 ft²	1 ft 6 in	1 ft 0 in	HERS 2006	None
	5	E=>NE	Metal	Low-E Double	Yes	0.75	0.55	N	9 ft²	1 ft 6 in	1 ft 0 in	HERS 2006	None
	6	E=>NE	Metal	Low-E Double	Yes	0.75	0.55	N	20 ft²	1 ft 6 in	1 ft 0 in	HERS 2006	None
	7	S=>SE	Metal	Low-E Double	Yes	0.75	0.55	N	30 ft²	8 ft 6 in	1 ft 0 in	HERS 2006	None
	8	S=>SE	Metal	Low-E Double	Yes	0.75	0.55	N	8.888889	8 ft 6 in	1 ft 0 in	HERS 2006	None
	9	S=>SE	Metal	Low-E Double	Yes	0.75	0.55	N	30 ft²	1 ft 6 in	1 ft 0 in	HERS 2006	None
	10	W=>SW	Metal	Low-E Double	Yes	0.75	0.55	N	30 ft²	1 ft 6 in	1 ft 0 in	HERS 2006	None
	11	S=>SE	Metal	Low-E Double	Yes	0.75	0.55	N	15 ft²	1 ft 6 in	5 ft 0 in	HERS 2006	None
INFILTRATION & VENTING													
✓	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ----		Supply CFM		Exhaust CFM	Run Time Fraction	Fan Watts
	Default	0.00036	2176	7.08	119.4	224.6	0 cfm		0 cfm		0	0	
GARAGE													
✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter		Avg. Wall Height		Exposed Wall Insulation					
	1	506 ft²	506 ft²	66 ft		8 ft		(invalid)					
COOLING SYSTEM													
✓	#	System Type	Subtype		Efficiency		Capacity	Air Flow		SHR	Ducts		
	1	Central Unit	None		SEER: 13		51 kBtu/hr	1530 cfm		0.75	sys#1		
HEATING SYSTEM													
✓	#	System Type	Subtype		Efficiency		Capacity	Ducts					
	1	Electric Heat Pump	None		HSPF: 7.7		51 kBtu/hr	sys#1					

HOT WATER SYSTEM													
✓	#	System Type	EF		Cap		Use		SetPnt		Conservation		
	1	Electric	0.92		40 gal		70 gal		120 deg		None		
SOLAR HOT WATER SYSTEM													
✓	FSEC Cert #	Company Name	System Model #		Collector Model #		Collector Area		Storage Volume		FEF		
	None	None					ft²						
DUCTS													
✓	#	---- Supply ---- Location	R-Value	Area	---- Return ---- Location	Area	Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF	
	1	Attic	6	460.8 ft	Attic	115.2 ft	Default Leakage	Interior	(Default)	(Default) %			
TEMPERATURES													
Programable Thermostat: None						Ceiling Fans:							
Cooling Heating Venting	☒ Jan ☒ Jan ☒ Jan	☒ Feb ☒ Feb ☒ Feb	☒ Mar ☒ Mar ☒ Mar	☒ Apr ☒ Apr ☒ Apr	☒ May ☒ May ☒ May	☒ Jun ☒ Jun ☒ Jun	☒ Jul ☒ Jul ☒ Jul	☒ Aug ☒ Aug ☒ Aug	☒ Sep ☒ Sep ☒ Sep	☒ Oct ☒ Oct ☒ Oct	☒ Nov ☒ Nov ☒ Nov	☒ Dec ☒ Dec ☒ Dec	
Thermostat Schedule: HERS 2006 Reference		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68
Heating (WEH)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot 82 & 83 Emerald Cove

PERMIT #:

, FL,

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.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	N1106.AB.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	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to 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	N1106.AB.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 with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	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%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL)
DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 85
The lower the EnergyPerformance Index, the more efficient the home.

Lot 82 & 83 Emerald Cove, , FL,

1. New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family	a. Face Brick - Wood, Exterior	R=13.0	1749.30 ft²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	248.00 ft²
4. Number of Bedrooms	4	c. N/A	R=	ft²
5. Is this a worst case?	Yes	d. N/A	R=	ft²
6. Conditioned floor area (ft²)	2304	10. Ceiling Types	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=30.0	2056.00 ft²
a. U-Factor:	DbI, U=0.75	b. Knee Wall (Vented)	R=30.0	465.00 ft²
SHGC:	SHGC=0.55	c. N/A	R=	ft²
b. U-Factor:	N/A	11. Ducts		
SHGC:		a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 460.8 ft²		
c. U-Factor:	N/A	12. Cooling systems		
SHGC:		a. Central Unit	Cap: 51.0 kBtu/hr	SEER: 13
d. U-Factor:	N/A	13. Heating systems		
SHGC:		a. Electric Heat Pump	Cap: 51.0 kBtu/hr	HSPF: 7.7
e. U-Factor:	N/A	14. Hot water systems		
SHGC:		a. Electric	Cap: 40 gallons	EF: 0.92
8. Floor Types	Insulation	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	None		
b. N/A	R=			
c. N/A	R=	15. Credits		None

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: Date:

Address of New Home: City/FL Zip:



*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at (321) 638-1492 or see the Energy Gauge web site at energygauge.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the Department of Community Affairs at (850) 487-1824.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

Residential System Sizing Calculation

Summary

Kyle Keen
Lot 82 & 83 Emerald Cove
, FL

Project Title:
1101072PlumblevelConstructionKyleKeenRes

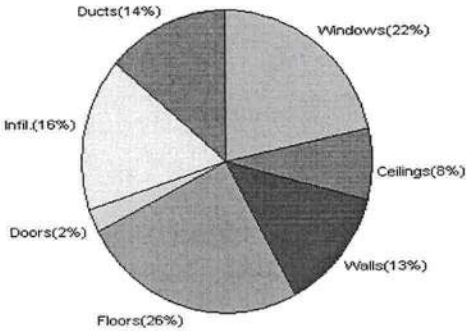
1/31/2011

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature(MJ8 99%)	33	F	Summer design temperature(MJ8 99%)	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation			38516	Btuh	
Total cooling load calculation			42749	Btuh	
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	132.4	51000	Sensible (SHR = 0.75)	107.7	38250
Heat Pump + Auxiliary(0.0kW)	132.4	51000	Latent	176.2	12750
			Total (Electric Heat Pump)	119.3	51000

WINTER CALCULATIONS

Winter Heating Load (for 2304 sqft)

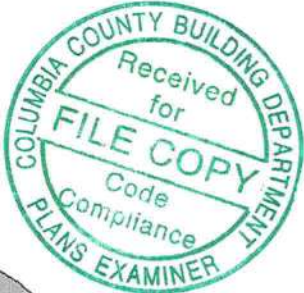
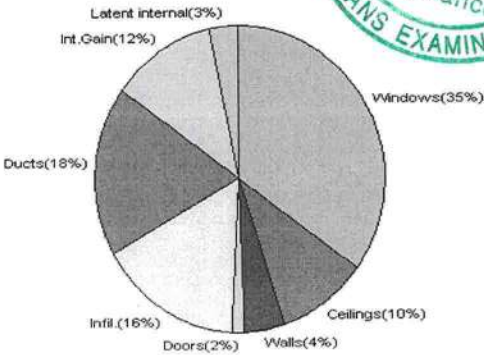
Load component			Load	
Window total	301	sqft	8359	Btuh
Wall total	1632	sqft	4891	Btuh
Door total	64	sqft	954	Btuh
Ceiling total	2521	sqft	2971	Btuh
Floor total	2056	sqft	9824	Btuh
Infiltration	154	cfm	6222	Btuh
Duct loss			5296	Btuh
Subtotal			38516	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			38516	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2304 sqft)

Load component			Load	
Window total	301	sqft	14964	Btuh
Wall total	1632	sqft	1912	Btuh
Door total	64	sqft	722	Btuh
Ceiling total	2521	sqft	4175	Btuh
Floor total			0	Btuh
Infiltration	123	cfm	2287	Btuh
Internal gain			5010	Btuh
Duct gain			6444	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			35514	Btuh
Latent gain(ducts)			1344	Btuh
Latent gain(infiltration)			4491	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1400	Btuh
Total latent gain			7235	Btuh
TOTAL HEAT GAIN			42749	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY:

DATE: 1/31/11 ERAN BEAMSLER

EnergyGauge® / USRFZB v2.8

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Kyle Keen
Lot 82 & 83 Emerald Cove
, FL

Project Title:
1101072PlumblevelConstructionKyleKeenRes
Building Type: User

1/31/2011

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)
This calculation is for Worst Case. The house has been rotated 45 degrees.

Component Loads for Whole House							
Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X HTM=	Load
1	2, NFRC 0.55	Metal	0.75	NE	15.0	27.8	416 Btuh
2	2, NFRC 0.55	Metal	0.75	NE	53.3	27.8	1480 Btuh
3	2, NFRC 0.55	Metal	0.75	NE	60.0	27.8	1665 Btuh
4	2, NFRC 0.55	Metal	0.75	SE	30.0	27.8	832 Btuh
5	2, NFRC 0.55	Metal	0.75	SE	9.0	27.8	250 Btuh
6	2, NFRC 0.55	Metal	0.75	SE	20.0	27.8	555 Btuh
7	2, NFRC 0.55	Metal	0.75	SW	30.0	27.8	832 Btuh
8	2, NFRC 0.55	Metal	0.75	SW	8.9	27.8	247 Btuh
9	2, NFRC 0.55	Metal	0.75	SW	30.0	27.8	832 Btuh
10	2, NFRC 0.55	Metal	0.75	NW	30.0	27.8	832 Btuh
11	2, NFRC 0.55	Metal	0.75	SW	15.0	27.8	416 Btuh
Window Total					301.2(sqft)		8359 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Face Br - Wood	- Ext	(0.080)	13.0/0.0	292	2.95	861 Btuh
2	Face Br - Wood	- Ext	(0.080)	13.0/0.0	348	2.95	1026 Btuh
3	Face Br - Wood	- Ext	(0.080)	13.0/0.0	180	2.95	532 Btuh
4	Face Br - Wood	- Ext	(0.080)	13.0/0.0	405	2.95	1194 Btuh
5	Frame - Wood	- Adj	(0.089)	13.0/0.0	230	3.28	756 Btuh
6	Face Br - Wood	- Ext	(0.080)	13.0/0.0	177	2.95	522 Btuh
Wall Total					1632(sqft)		4891 Btuh
Doors	Type	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)		27	14.8	395 Btuh
2	Insulated - Garage,	n	(0.400)		18	14.8	263 Btuh
3	Insulated - Exterior,	n	(0.400)		20	14.8	296 Btuh
Door Total					64(sqft)		954Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shing		(0.032)	30.0/0.0	2056	1.2	2423 Btuh
2	Knee Wall/D/Shing		(0.032)	30.0/0.0	465	1.2	548 Btuh
Ceiling Total					2521(sqft)		2971Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	225.0 ft(perim.)	43.7	9824 Btuh
Floor Total					2056 sqft		9824 Btuh
Envelope Subtotal:							26998 Btuh
Infiltration	Type		ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural		0.50	18432	1.00	153.6	6222 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att) (DLM of 0.159)						5296 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Kyle Keen
Lot 82 & 83 Emerald Cove
, FL

Project Title:
1101072PlumblevelConstructionKyleKeenRes
Building Type: User

1/31/2011

All Zones	Sensible Subtotal All Zones	38516 Btuh
-----------	-----------------------------	------------

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	38516 Btuh 0 Btuh 38516 Btuh
--------------------	--	------------------------------------

EQUIPMENT

1. Electric Heat Pump	#	51000 Btuh
-----------------------	---	------------

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Kyle Keen
Lot 82 & 83 Emerald Cove
, FL

Project Title:
1101072PlumblevelConstructionKyleKeenRes

1/31/2011

Reference City: Gainesville, FL Temperature Difference: 17.0F(MJ8 99%) Humidity difference: 54gr.
This calculation is for Worst Case. The house has been rotated 45 degrees.

Component Loads for Whole House

Window	Type*					Overhang		Window Area(sqft)			HTM		Load	
	Panes	SHGC	U	InSh	IS Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2 NFRC	0.55, 0.75	No	No	NE	9.3ft	1.0ft	15.0	0.0	15.0	24	50	746	Btuh
2	2 NFRC	0.55, 0.75	No	No	NE	7.3ft	1.0ft	53.3	0.0	53.3	24	50	2651	Btuh
3	2 NFRC	0.55, 0.75	No	No	NE	1.5ft	1.0ft	60.0	0.0	60.0	24	50	2983	Btuh
4	2 NFRC	0.55, 0.75	No	No	SE	1.5ft	1.0ft	30.0	8.8	21.2	24	52	1320	Btuh
5	2 NFRC	0.55, 0.75	No	No	SE	1.5ft	1.0ft	9.0	4.4	4.6	24	52	347	Btuh
6	2 NFRC	0.55, 0.75	No	No	SE	1.5ft	1.0ft	20.0	5.9	14.1	24	52	880	Btuh
7	2 NFRC	0.55, 0.75	No	No	SW	8.5ft	1.0ft	30.0	30.0	0.0	24	52	730	Btuh
8	2 NFRC	0.55, 0.75	No	No	SW	8.5ft	1.0ft	8.9	8.9	0.0	24	52	216	Btuh
9	2 NFRC	0.55, 0.75	No	No	SW	1.5ft	1.0ft	30.0	8.8	21.2	24	52	1320	Btuh
10	2 NFRC	0.55, 0.75	No	No	NW	1.5ft	1.0ft	30.0	0.0	30.0	24	50	1491	Btuh
11	2 NFRC	0.55, 0.75	No	No	SW	1.5ft	5.0ft	15.0	0.0	15.0	24	52	782	Btuh
Excursion													1499	Btuh
Window Total								301 (sqft)					14964	Btuh
Walls	Type	U-Value		R-Value		Area(sqft)		HTM		Load				
1	Face Brick - Wood - Ext	0.08	13.0/0.0	291.7	1.1	326	Btuh							
2	Face Brick - Wood - Ext	0.08	13.0/0.0	347.7	1.1	388	Btuh							
3	Face Brick - Wood - Ext	0.08	13.0/0.0	180.4	1.1	201	Btuh							
4	Face Brick - Wood - Ext	0.08	13.0/0.0	404.7	1.1	452	Btuh							
5	Frame - Wood - Adj	0.09	13.0/0.0	230.2	1.5	347	Btuh							
6	Face Brick - Wood - Ext	0.08	13.0/0.0	177.0	1.1	198	Btuh							
Wall Total						1632 (sqft)				1912	Btuh			
Doors	Type	Area (sqft)		HTM		Load								
1	Insulated - Exterior	26.7	11.2	299	Btuh									
2	Insulated - Garage	17.8	11.2	199	Btuh									
3	Insulated - Exterior	20.0	11.2	224	Btuh									
Door Total						64 (sqft)				722	Btuh			
Ceilings	Type/Color/Surface	U-Value		R-Value		Area(sqft)		HTM		Load				
1	Vented Attic/DarkShingle	0.032	30.0/0.0	2056.0	1.66	3405	Btuh							
2	Knee Wall/DarkShingle	0.032	30.0/0.0	465.0	1.66	770	Btuh							
Ceiling Total						2521 (sqft)				4175	Btuh			
Floors	Type	R-Value		Size		HTM		Load						
1	Slab On Grade	0.0	2056 (ft-perimeter)	0.0	0	Btuh								
Floor Total						2056.0 (sqft)				0	Btuh			
Envelope Subtotal:											21772 Btuh			

Manual J Summer Calculations

Residential Load - Component Details (continued)

Kyle Keen
Lot 82 & 83 Emerald Cove
, FL

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
1101072PlumblevelConstructionKyleKeenRes

1/31/2011

Infiltration	Type	ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	SensibleNatural	0.40	18432	1632	153.6	2287 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		5	X 230 +		3400	4550 Btuh
	Sensible Envelope Load:					28609 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)			(DGM of 0.222)		6444 Btuh
	Sensible Load All Zones					35054 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Kyle Keen
Lot 82 & 83 Emerald Cove
, FL

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
1101072PlumblevelConstructionKyleKeenRes

1/31/2011

WHOLE HOUSE TOTALS		
Whole House Totals for Cooling	Sensible Envelope Load All Zones	29069 Btuh
	Sensible Duct Load	6444 Btuh
	Total Sensible Zone Loads	35514 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	35514 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4491 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1344 Btuh
	Latent occupant gain (7 people @ 200 Btuh per person)	1400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	7235 Btuh
	TOTAL GAIN	42749 Btuh

EQUIPMENT		
1. Central Unit	#	51000 Btuh

*Key: Window types (Panels - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Ornt - compass orientation)



Version 8

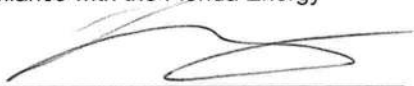
FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name: 1101072PlumbLevelConstructionKyleKeenRes Street: Lot 82 & 83 Emerald Cove City, State, Zip: , FL , Owner: Kyle Keen Design Location: FL, Gainesville	Builder Name: Plumb Level Construction Permit Office: Permit Number: Jurisdiction: 221006
---	---

1. New construction or existing New (From Plans) 2. Single family or multiple family Single-family 3. Number of units, if multiple family 1 4. Number of Bedrooms 4 5. Is this a worst case? Yes 6. Conditioned floor area (ft²) 2304 7. Windows Description Area a. U-Factor: Dbl, U=0.75 301.22 ft² SHGC: SHGC=0.55 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: d. U-Factor: N/A ft² SHGC: e. U-Factor: N/A ft² SHGC: 8. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 2056.00 ft² b. N/A R= ft² c. N/A R= ft²	9. Wall Types Insulation Area a. Face Brick - Wood, Exterior R=13.0 1749.30 ft² b. Frame - Wood, Adjacent R=13.0 248.00 ft² c. N/A R= ft² d. N/A R= ft² 10. Ceiling Types Insulation Area a. Under Attic (Vented) R=30.0 2056.00 ft² b. Knee Wall (Vented) R=30.0 465.00 ft² c. N/A R= ft² 11. Ducts a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 460.8 ft² 12. Cooling systems a. Central Unit Cap: 51.0 kBtu/hr SEER: 13 13. Heating systems a. Electric Heat Pump Cap: 51.0 kBtu/hr HSPF: 7.7 14. Hot water systems a. Electric Cap: 40 gallons EF: 0.92 b. Conservation features None 15. Credits None
---	---

Glass/Floor Area: 0.131	Total As-Built Modified Loads: 40.49	PASS
	Total Baseline Loads: 47.84	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 1/31/11 EVAN BEAMSELEY I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: _____	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: _____
--	---



PROJECT										
Title:	1101072PlumbLevelConstructi			Bedrooms:	4		Adress Type:	Street Address		
Building Type:	FLAsBuilt			Conditioned Area:	2304		Lot #			
Owner:	Kyle Keen			Total Stories:	2		SubDivision:			
# of Units:	1			Worst Case:	Yes		PlatBook:			
Builder Name:	Plumb Level Construction			Rotate Angle:	315		Street:	Lot 82 & 83 Emerald Co		
Permit Office:				Cross Ventilation:			County:	Columbia		
Jurisdiction:				Whole House Fan:			City, State, Zip:	, FL ,		
Family Type:	Single-family									
New/Existing:	New (From Plans)									
Comment:										

CLIMATE										
✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 % 2.5 %		Int Design Temp Winter Summer		Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS											
✓	#	Floor Type	Perimeter	R-Value		Area			Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	225 ft	0		2056 ft²			0.3	0.3	0.4

ROOF										
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Gable or shed	Composition shingles	2299 ft²	514 ft²	Dark	0.96	No	0	26.6 deg

ATTIC										
✓	#	Type	Ventilation	Vent Ratio (1 in)		Area		RBS	IRCC	
_____	1	Full attic	Vented	300		2056 ft²		N	N	

CEILING										
✓	#	Ceiling Type		R-Value		Area		Framing Frac		Truss Type
_____	1	Under Attic (Vented)		30		2056 ft²		0.11		Wood
_____	2	Knee Wall (Vented)		30		465 ft²		0.11		Wood

WALLS										
✓	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	
_____	1	N	Exterior	Face Brick - Wood	13	446.67 ft²	0	0.23	0.75	
_____	2	E	Exterior	Face Brick - Wood	13	406.67 ft²	0	0.23	0.75	
_____	3	S	Exterior	Face Brick - Wood	13	269.33 ft²	0	0.23	0.75	
_____	4	W	Exterior	Face Brick - Wood	13	434.67 ft²	0	0.23	0.75	
_____	5	S	Garage	Frame - Wood	13	248 ft²		0.23	0.01	
_____	6	S	Exterior	Face Brick - Wood	13	192 ft²	0	0.23	0.75	

DOORS

✓	#	Ornt	Door Type	Storms	U-Value	Area
_____	1	N	Insulated	None	0.4	26.66666
_____	2	S	Insulated	None	0.400000	17.77777
_____	3	S	Insulated	None	0.4	20 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

✓	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth Separation	Int Shade	Screening
_____	1	N=>NW	Metal	Low-E Double	Yes	0.75	0.55	N	15 ft²	8 ft 16 in 1 ft 0 in	HERS 2006	None
_____	2	N=>NW	Metal	Low-E Double	Yes	0.75	0.55	N	53.33333	7 ft 4 in 1 ft 0 in	HERS 2006	None
_____	3	N=>NW	Metal	Low-E Double	Yes	0.75	0.55	N	60 ft²	1 ft 6 in 1 ft 0 in	HERS 2006	None
_____	4	E=>NE	Metal	Low-E Double	Yes	0.75	0.55	N	30 ft²	1 ft 6 in 1 ft 0 in	HERS 2006	None
_____	5	E=>NE	Metal	Low-E Double	Yes	0.75	0.55	N	9 ft²	1 ft 6 in 1 ft 0 in	HERS 2006	None
_____	6	E=>NE	Metal	Low-E Double	Yes	0.75	0.55	N	20 ft²	1 ft 6 in 1 ft 0 in	HERS 2006	None
_____	7	S=>SE	Metal	Low-E Double	Yes	0.75	0.55	N	30 ft²	8 ft 6 in 1 ft 0 in	HERS 2006	None
_____	8	S=>SE	Metal	Low-E Double	Yes	0.75	0.55	N	8.888889	8 ft 6 in 1 ft 0 in	HERS 2006	None
_____	9	S=>SE	Metal	Low-E Double	Yes	0.75	0.55	N	30 ft²	1 ft 6 in 1 ft 0 in	HERS 2006	None
_____	10	W=>SW	Metal	Low-E Double	Yes	0.75	0.55	N	30 ft²	1 ft 6 in 1 ft 0 in	HERS 2006	None
_____	11	S=>SE	Metal	Low-E Double	Yes	0.75	0.55	N	15 ft²	1 ft 6 in 5 ft 0 in	HERS 2006	None

INFILTRATION & VENTING

✓	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ---- Supply CFM Exhaust CFM	Run Time Fraction	Fan Watts
_____	Default	0.00036	2176	7.08	119.4	224.6	0 cfm 0 cfm	0	0

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
_____	1	506 ft²	506 ft²	66 ft	8 ft	(invalid)

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ducts
_____	1	Central Unit	None	SEER: 13	51 kBtu/hr	1530 cfm	0.75	sys#1

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Ducts
_____	1	Electric Heat Pump	None	HSPF: 7.7	51 kBtu/hr	sys#1

HOT WATER SYSTEM													
✓	#	System Type		EF	Cap	Use	SetPnt	Conservation					
_____	1	Electric		0.92	40 gal	70 gal	120 deg	None					
SOLAR HOT WATER SYSTEM													
✓	FSEC Cert #	Company Name		System Model #		Collector Model #		Collector Area	Storage Volume	FEF			
_____	None	None						ft²					
DUCTS													
✓	#	--- Supply ---		--- Return ---		Leakage Type		Air Handler	CFM 25	Percent Leakage	QN	RLF	
_____	1	Attic	6	460.8 ft	Attic	115.2 ft	Default Leakage	Interior	(Default)	(Default) %			
TEMPERATURES													
Programable Thermostat: None						Ceiling Fans:							
Cooling Heating Venting	☒ Jan ☒ Jan ☒ Jan	☒ Feb ☒ Feb ☒ Feb	☒ Mar ☒ Mar ☒ Mar	☒ Apr ☒ Apr ☒ Apr	☒ May ☒ May ☒ May	☒ Jun ☒ Jun ☒ Jun	☒ Jul ☒ Jul ☒ Jul	☒ Aug ☒ Aug ☒ Aug	☒ Sep ☒ Sep ☒ Sep	☒ Oct ☒ Oct ☒ Oct	☒ Nov ☒ Nov ☒ Nov	☒ Dec ☒ Dec ☒ Dec	
Thermostat Schedule: HERS 2006 Reference													
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68
Heating (WEH)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 85

The lower the EnergyPerformance Index, the more efficient the home.

Lot 82 & 83 Emerald Cove, , FL,

1. New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family	a. Face Brick - Wood, Exterior	R=13.0	1749.30 ft²
3. Number of units, if multiple family	1	b. Frame - Wood, Adjacent	R=13.0	248.00 ft²
4. Number of Bedrooms	4	c. N/A	R=	ft²
5. Is this a worst case?	Yes	d. N/A	R=	ft²
6. Conditioned floor area (ft²)	2304	10. Ceiling Types	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=30.0	2056.00 ft²
a. U-Factor:	Dbl, U=0.75	b. Knee Wall (Vented)	R=30.0	465.00 ft²
SHGC:	SHGC=0.55	c. N/A	R=	ft²
b. U-Factor:	N/A	11. Ducts		
SHGC:		a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 460.8 ft²		
c. U-Factor:	N/A	12. Cooling systems		
SHGC:		a. Central Unit	Cap: 51.0 kBtu/hr	SEER: 13
d. U-Factor:	N/A	13. Heating systems		
SHGC:		a. Electric Heat Pump	Cap: 51.0 kBtu/hr	HSPF: 7.7
e. U-Factor:	N/A	14. Hot water systems		
SHGC:		a. Electric	Cap: 40 gallons	EF: 0.92
8. Floor Types	Insulation	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	None		
b. N/A	R=	15. Credits		None
c. N/A	R=			

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at (321) 638-1492 or see the Energy Gauge web site at energygauge.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the Department of Community Affairs at (850) 487-1824.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

EnergyGauge® USA - FlaRes2008

Residential System Sizing Calculation

Summary

Kyle Keen
Lot 82 & 83 Emerald Cove
, FL

Project Title:
1101072PlumblevelConstructionKyleKeenRes

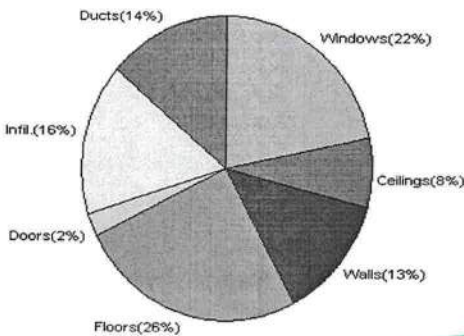
1/31/2011

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature(MJ8 99%)	33	F	Summer design temperature(MJ8 99%)	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation			38516	Btuh	
Submitted heating capacity	% of calc	Btuh	Total cooling load calculation		
Total (Electric Heat Pump)	132.4	51000	42749		
Heat Pump + Auxiliary(0.0kW)	132.4	51000			
			Submitted cooling capacity	% of calc	Btuh
			Sensible (SHR = 0.75)	107.7	38250
			Latent	176.2	12750
			Total (Electric Heat Pump)	119.3	51000

WINTER CALCULATIONS

Winter Heating Load (for 2304 sqft)

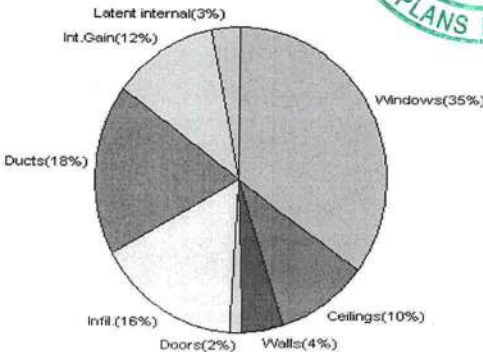
Load component			Load	
Window total	301	sqft	8359	Btuh
Wall total	1632	sqft	4891	Btuh
Door total	64	sqft	954	Btuh
Ceiling total	2521	sqft	2971	Btuh
Floor total	2056	sqft	9824	Btuh
Infiltration	154	cfm	6222	Btuh
Duct loss			5296	Btuh
Subtotal			38516	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			38516	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2304 sqft)

Load component			Load	
Window total	301	sqft	14964	Btuh
Wall total	1632	sqft	1912	Btuh
Door total	64	sqft	722	Btuh
Ceiling total	2521	sqft	4175	Btuh
Floor total			0	Btuh
Infiltration	123	cfm	2287	Btuh
Internal gain			5010	Btuh
Duct gain			6444	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			35514	Btuh
Latent gain(ducts)			1344	Btuh
Latent gain(infiltration)			4491	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1400	Btuh
Total latent gain			7235	Btuh
TOTAL HEAT GAIN			42749	Btuh



8th Edition

EnergyGauge® System Sizing

PREPARED BY:

DATE: 1/31/11 EVAN BEASLEY

EnergyGauge® / USRFZB v2.8

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Kyle Keen
Lot 82 & 83 Emerald Cove
, FL

Project Title:
1101072PlumblevelConstructionKyleKeenRes
Building Type: User

1/31/2011

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 37.0 F (MJ8 99%)
This calculation is for Worst Case. The house has been rotated 45 degrees.

Component Loads for Whole House								
Window	Panes/Type	Frame	U	Orientation	Area(sqft)	X	HTM=	Load
1	2, NFRC 0.55	Metal	0.75	NE	15.0		27.8	416 Btuh
2	2, NFRC 0.55	Metal	0.75	NE	53.3		27.8	1480 Btuh
3	2, NFRC 0.55	Metal	0.75	NE	60.0		27.8	1665 Btuh
4	2, NFRC 0.55	Metal	0.75	SE	30.0		27.8	832 Btuh
5	2, NFRC 0.55	Metal	0.75	SE	9.0		27.8	250 Btuh
6	2, NFRC 0.55	Metal	0.75	SE	20.0		27.8	555 Btuh
7	2, NFRC 0.55	Metal	0.75	SW	30.0		27.8	832 Btuh
8	2, NFRC 0.55	Metal	0.75	SW	8.9		27.8	247 Btuh
9	2, NFRC 0.55	Metal	0.75	SW	30.0		27.8	832 Btuh
10	2, NFRC 0.55	Metal	0.75	NW	30.0		27.8	832 Btuh
11	2, NFRC 0.55	Metal	0.75	SW	15.0		27.8	416 Btuh
Window Total					301.2(sqft)			8359 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area	X	HTM=	Load
1	Face Br - Wood	- Ext	(0.080)	13.0/0.0	292		2.95	861 Btuh
2	Face Br - Wood	- Ext	(0.080)	13.0/0.0	348		2.95	1026 Btuh
3	Face Br - Wood	- Ext	(0.080)	13.0/0.0	180		2.95	532 Btuh
4	Face Br - Wood	- Ext	(0.080)	13.0/0.0	405		2.95	1194 Btuh
5	Frame - Wood	- Adj	(0.089)	13.0/0.0	230		3.28	756 Btuh
6	Face Br - Wood	- Ext	(0.080)	13.0/0.0	177		2.95	522 Btuh
Wall Total					1632(sqft)			4891 Btuh
Doors	Type	Storm	Ueff.		Area	X	HTM=	Load
1	Insulated - Exterior,	n	(0.400)		27		14.8	395 Btuh
2	Insulated - Garage,	n	(0.400)		18		14.8	263 Btuh
3	Insulated - Exterior,	n	(0.400)		20		14.8	296 Btuh
Door Total					64(sqft)			954Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shing		(0.032)	30.0/0.0	2056		1.2	2423 Btuh
2	Knee Wall/D/Shing		(0.032)	30.0/0.0	465		1.2	548 Btuh
Ceiling Total					2521(sqft)			2971Btuh
Floors	Type		Ueff.	R-Value	Size	X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	225.0 ft(perim.)		43.7	9824 Btuh
Floor Total					2056 sqft			9824 Btuh
Envelope Subtotal:								26998 Btuh
Infiltration	Type		ACH	Volume(cuft)	Wall Ratio		CFM=	Load
	Natural		0.50	18432	1.00		153.6	6222 Btuh
Duct load	Average sealed, R6.0, Supply(Att), Return(Att)						(DLM of 0.159)	5296 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Kyle Keen
Lot 82 & 83 Emerald Cove
, FL

Project Title:
1101072PlumblevelConstructionKyleKeenRes
Building Type: User

1/31/2011

All Zones	Sensible Subtotal All Zones	38516 Btuh
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WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	38516 Btuh 0 Btuh 38516 Btuh
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EQUIPMENT

1. Electric Heat Pump	#	51000 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)

U - (Window U-Factor)

HTM - (ManualJ Heat Transfer Multiplier)



Version 8

Manual J Summer Calculations

Residential Load - Component Details (continued)

Kyle Keen
Lot 82 & 83 Emerald Cove
, FL

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
1101072PlumblevelConstructionKyleKeenRes

1/31/2011

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	29069 Btuh
	Sensible Duct Load	6444 Btuh
	Total Sensible Zone Loads	35514 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	35514 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4491 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1344 Btuh
	Latent occupant gain (7 people @ 200 Btuh per person)	1400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	7235 Btuh
	TOTAL GAIN	42749 Btuh

EQUIPMENT

1. Central Unit	#	51000 Btuh
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*Key: Window types (Panels - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Ornt - compass orientation)



Version 8

Revised

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 29156 CONTRACTOR Bedenshagh, Kevin, J PHONE 792-4061
THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name _____ License #: _____	Signature _____ Phone #: _____
MECHANICAL/ A/C _____	Print Name _____ License #: _____	Signature _____ Phone #: _____
PLUMBING/ GAS	Print Name _____ License #: _____	Signature _____ Phone #: _____
ROOFING	Print Name _____ License #: _____	Signature _____ Phone #: _____
SHEET METAL	Print Name _____ License #: _____	Signature _____ Phone #: _____
FIRE SYSTEM/ SPRINKLER	Print Name _____ License #: _____	Signature _____ Phone #: _____
SOLAR	Print Name _____ License #: _____	Signature _____ Phone #: _____

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
✓ MASON	97	Kenneth Louder	Kenneth Louder
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
Page 1 of 1 Document ID:1U8S215-Z0121152559

Truss Fabricator: W.B. Howland
Job Identification: 7088C-/KEEN RESIDENCE /Plumb Level Construction -- , FL
Truss Count: 40
Model Code: Florida Building Code 2007 and 2009 Supplement
Truss Criteria: FBC2007Res/TPI-2002(STD)
Engineering Software: Alpine Software,Version 10.01.
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 7-05 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Details: A1101505-GBLLETIN-CNNAILSP-BRCLBSUB-PB120-

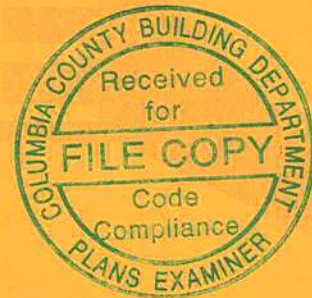


Seal Date: 01/21/2011

-Truss Design Engineer-
William H. Krick
Florida License Number: 70861
1950 Marley Drive
Haines City, FL 33844

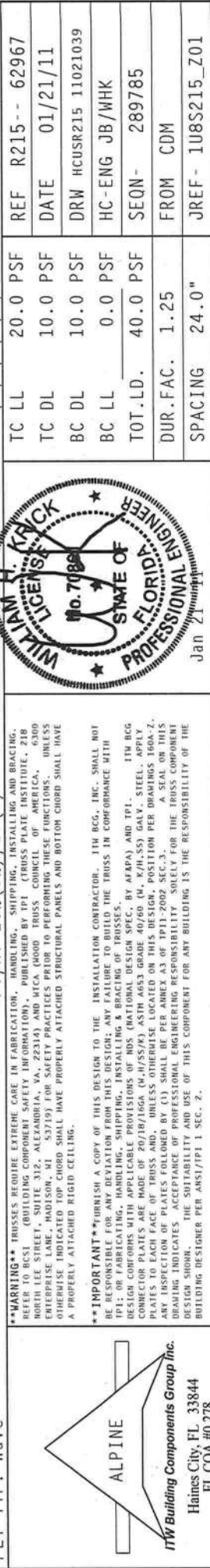
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1	62967--A2		11021039	01/21/11
2	62968--A3		11021001	01/21/11
3	62969--A4		11021002	01/21/11
4	62970--A5		11021040	01/21/11
5	62971--A6		11021003	01/21/11
6	62972--A7		11021004	01/21/11
7	62973--B1		11021035	01/21/11
8	62974--B2		11021005	01/21/11
9	62975--B3		11021006	01/21/11
10	62976--B4		11021007	01/21/11
11	62977--B5		11021008	01/21/11
12	62978--C		11021036	01/21/11
13	62979--C1		11021012	01/21/11
14	62980--C2		11021013	01/21/11
15	62981--C3		11021014	01/21/11
16	62982--C4		11021015	01/21/11
17	62983--C5		11021016	01/21/11
18	62984--C6		11021017	01/21/11
19	62985--C7		11021018	01/21/11
20	62986--C8		11021019	01/21/11
21	62987--C9		11021020	01/21/11
22	62988--C10		11021021	01/21/11
23	62989--C11		11021037	01/21/11
24	62990--D		11021009	01/21/11
25	62991--E		11021010	01/21/11
26	62992--J3		11021022	01/21/11
27	62993--J5		11021011	01/21/11
28	62994--J6		11021023	01/21/11
29	62995--J7		11021024	01/21/11
30	62996--J8		11021025	01/21/11
31	62997--J9		11021038	01/21/11
32	62998--J10		11021032	01/21/11
33	62999--J11		11021033	01/21/11
34	63000--J12		11021026	01/21/11
35	63001--J13		11021034	01/21/11
36	63002--J14		11021027	01/21/11

#	Ref	Description	Drawing#	Date
37	63003--P		11021028	01/21/11
38	63004--P1		11021029	01/21/11
39	63005--P2		11021030	01/21/11
40	63006--P3		11021031	01/21/11



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

The overall height of this truss excluding overhang is 3-3-2.



(7088C- /KEEN RESIDENCE /Plumb Level Construction - - , FL - A3)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N
:Rt Slider 2x6 SP #2 N

H = recommended connection based on manufacturer tested capacities and calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 3-6-14.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCPI (+/-)=0.18

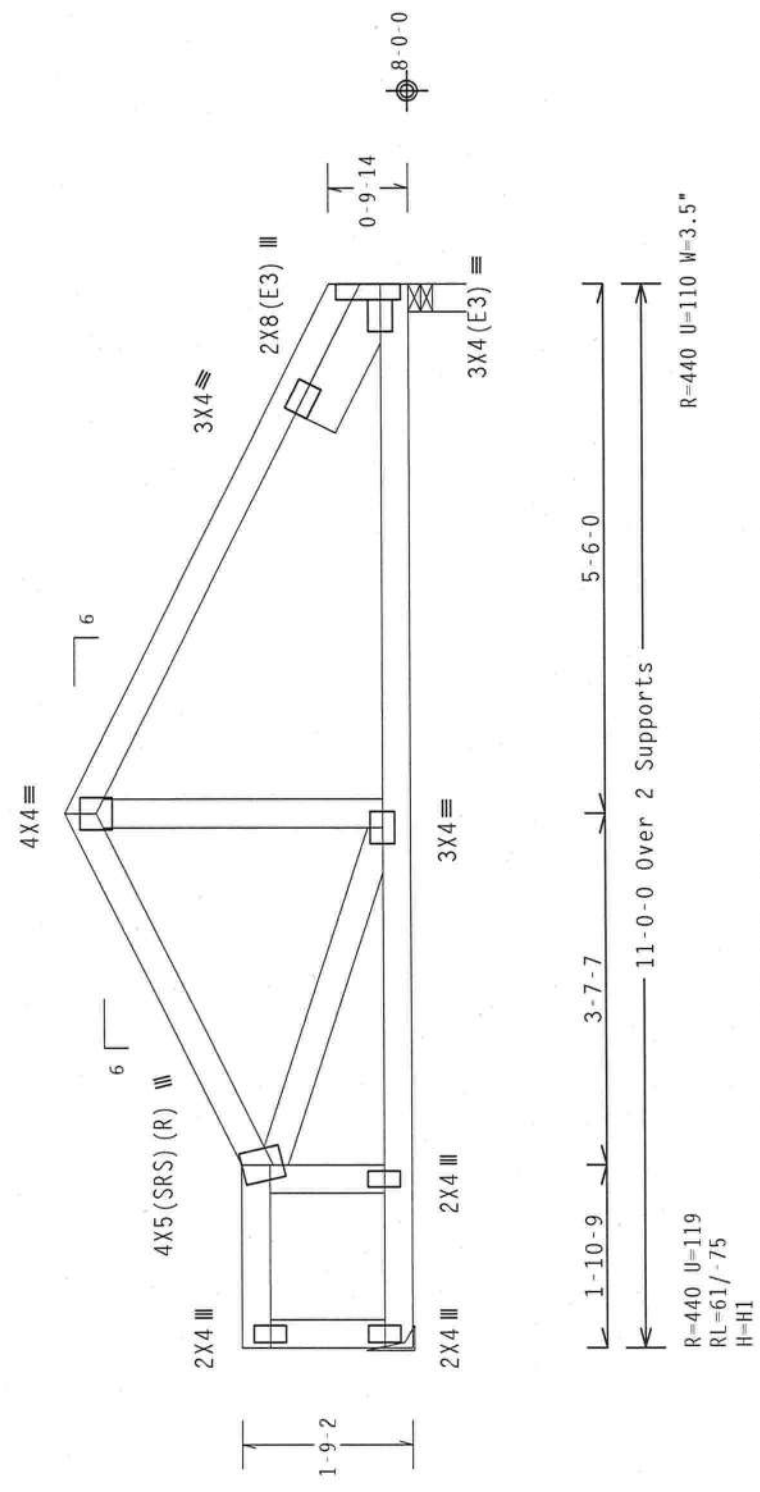
Wind reactions based on MWFRS pressures.

These hangers and support conditions used at bearings indicated
(H1) = ITW (KC) E24 w/ (2) 2x6 SP #2 N supporting member.

Supported Member Face: (2) 0.131"x1.5" nails
Supporting Member Face: (4) 0.128"x3" nails

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

MMFRS loads based on trusses located at least 7.50 ft. from roof edge.



R=440 U=110 W=3.5"

Design Crit: FBC2007Res/TPI-2002(STD)
 $FT/RT=20\%(0\%)/10(0)$

PLT TYP. Wave

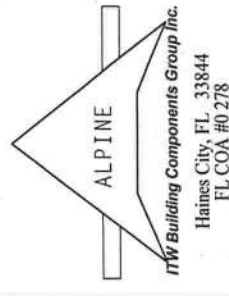
QTY:1 FL/-/5/-/-/R/-/

Scale = .5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 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 B&G, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, AND THE TRUSS IN CONFORMANCE WITH THIS DESIGN MUST BE MANUFACTURED BY THE COMPANY OR ITS SUBSIDIARIES OR FRANCHISEES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY AF&PA) AND TPI. THE B&G CONNECTOR PLATES ARE MADE OF 2010/H18GA (H/M-SECS) ASTM A653 GRADE 40/60 (40 YR/50 SECS) GALV. STEEL, APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON DESIGN, POSITION PER DRAWINGS 160A-Z. IF ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX 4 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANNS/PPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R215--	62968
TC DL	10.0 PSF	DATE	01/21/11	
BC DL	10.0 PSF	DRW	HCUSR215	11021001
BC LL	0.0 PSF	HC-ENG	JB/WHK	*
TOT.LD.	40.0 PSF	SEQN-	289757	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1U8S215_Z01	

Top chord 2x4 SP #2 N
Bot chord 2x6 SP SS
Webs 2x4 SP #2 N
:Lt Slider 2x4 SP #2 N: BLOCK LENGTH = 1.500'
:Rt Slider 2x4 SP #2 N: BLOCK LENGTH = 1.515'

Special loads

-----Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 60 plf at -2.00 to 60 plf at 5.00
TC- From 60 plf at 5.00 to 60 plf at 9.33
TC- From 60 plf at 9.33 to 60 plf at 9.83
TC- From 60 plf at 9.83 to 60 plf at 15.33
BC- From 4 plf at -2.00 to 4 plf at 0.00
BC- From 20 plf at 0.00 to 20 plf at 15.33
BC- 921.19 lb Conc. Load at 4.21

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

The overall height of this truss excluding overhang is 3-6-14.

2 COMPLETE TRUSSES REQUIRED

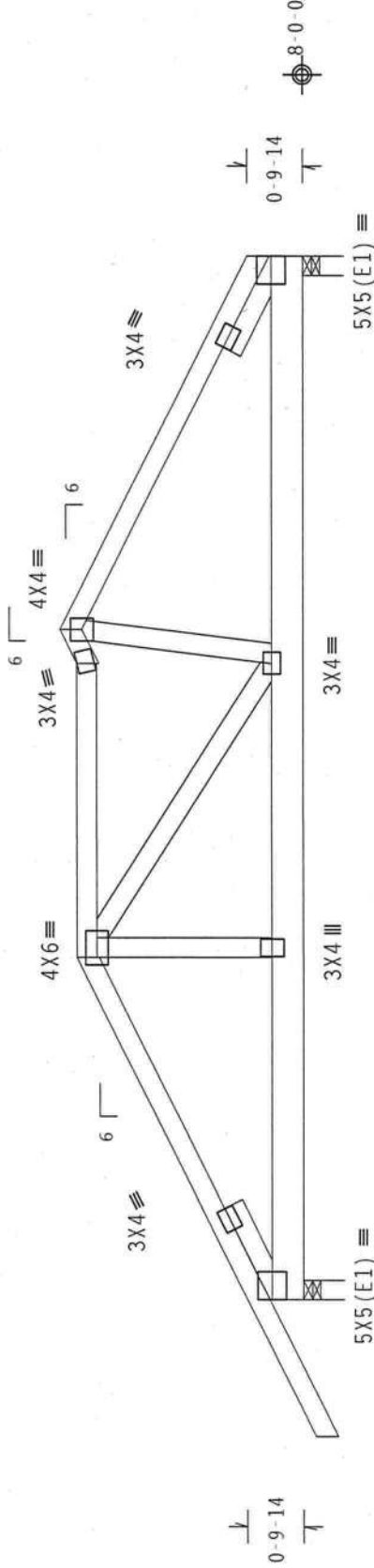
Nail Schedule:0.131"x3" nails
Top Chord: 1 Row @12.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)-0.18

Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

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



←-2-0-1-→

5-0-0 4-4-0 0-5-15
15-3-15 Over 2 Supports

R-1419 U=439 W=3.465"

R-857 U=242 W=3.5"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=20%(0%)/10(0)

QTY: 1 FL/-/5/-/-/R/-

Scale = .375"/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 MCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HUD (NATIONAL DESIGN SPEC. BY AREA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/1606 (4-HYSS/3) ASTM A653 GRADE 40/60 (0.47/0.55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, ALL DESIGN SECTION PER DRAWING. ITW BCG 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.



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278



TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25
SPACING	24.0"

REF	R215--	62970
DATE	01/21/11	
DRW	HCUSR215	11021040
HC-ENG	JB/WHK	
SEQN	289770	
FROM	CDM	
JREF	1U8S215_Z01	

FROM CDM

The overall height of this truss excluding overhang is 5-3-14.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



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

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:Lt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.546'
:Rt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.545'
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Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

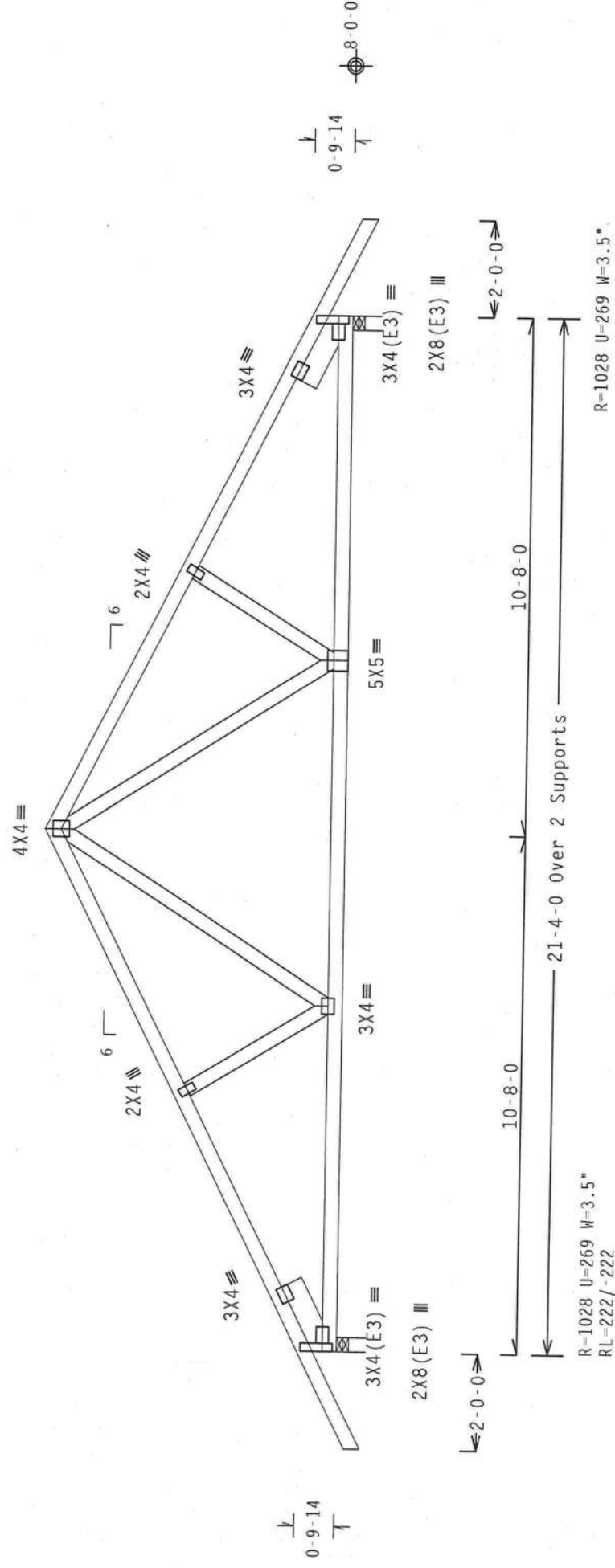
The overall height of this truss excluding overhang is 6-1-14.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, Exp C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. IW=1.00 GCpi (+/-)=0.18

Wind reactions based on MWFRS pressures.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

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



PLT TYP. Wave

Design Crit: FBC2007Res/TPI -2002(STD)
FT/RT=20%(0%)/10(0)

01.00

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO ACSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 WILSON AVENUE, 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 THE TYPE OR FABRICATION, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN COMPATIBILITY WITH APPLICATIONS OF NIOS (ASTM A653 GRADE 50C, BY AIAQ) AND TPI.
TUBES/PLATES ARE MADE OF ZINC-ALUMINUM COATED STEEL (K/H=55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS SPECIFIED OTHERWISE, POSITION PER DRAWINGS 160A-Z.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE COMPLETED AS OF THIS-2002 SEC.3.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN.

THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI I. SEC. 2.

FL/-/5/-/-/R/-	Scale = .3125"/Ft.
TC LL 20.0 PSF	REF R215-- 62976
TC DL 10.0 PSF	DATE 01/21/11
BC DL 10.0 PSF	DRW HCUSR215 11021007
BC LL 0.0 PSF	HC-ENG JB/WHK
TOT.LD. 40.0 PSF	SEQN- 286050
DUR.FAC. 1.25	FROM CDM
SPACING 24.0"	REF 110615 201

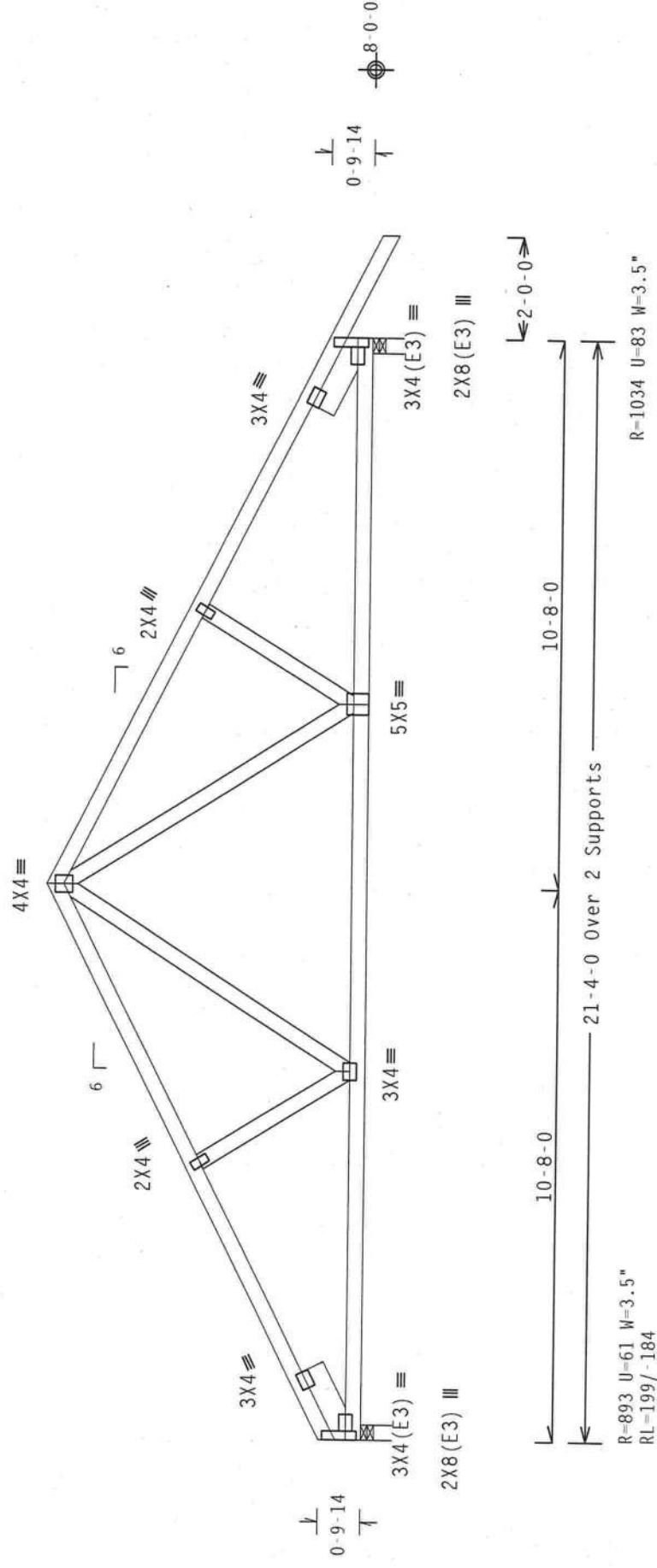
Jan 21 '11

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not loc within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(-/-)=0.18$

Truss passed check for 20 ref additional bottom chord members.

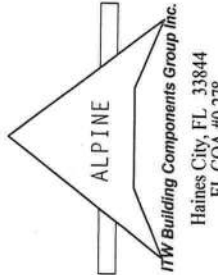
areas with 42"-high x 24"-wide clearance.

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

Design Crit: FBC2007Res/TPI-2002(STD)
 $FT/RT=20\%(0\%)/10(0)$

****WARNING**** TROUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPTI (TROSS PASTE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTC (WOOD TROSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI, 48319) 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 COMPLIANCE WITH THIS DESIGN CONFORMS WITH THE PROVISIONS OF THIS NATIONAL DESIGN SPECIFICATION. THE TRUSS COMPONENTS AND CONNECTOR PLATES ARE MADE OF 2011-T3 ALUMINUM 6061-T6 (A13600) AND 7050-T6 (A13600) ALUMINUM PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, ALL TRUSS COMPONENTS SHALL BE INSPECTED FOR PLATES FOLLOWED BY (1) SHALL BE PER ANNEAL 42 OF THE TRUSS COMPONENTS. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLUTION 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 SEC. 2.



01.00.050	QTY: 4	FL / - / 5 / - / - / R / -	Scale = .3125" / Ft.
		TC LL	20.0 PSF
		TC DL	10.0 PSF
		BC DL	10.0 PSF
		BC LL	0.0 PSF
		TOT. LD.	40.0 PSF
		DUR. FAC.	1.25
		REF	R215 - 62977
		DATE	01/21/11
		DRW	HCUSR215 11021008
		HC-ENG	JB/WHK
		SEQN-	286054
		FROM	CDM

Top chord 2x6 SP #2 N :T4, T6 2x6 SP SS:

Bot chord 2x6 SP SS
Webs 2x4 SP #2 N

Special loads

----- (Lumber Dur. Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 180 plf at -2.00 to 180 plf at 7.67
TC- From 180 plf at 7.67 to 180 plf at 12.69
TC- From 180 plf at 12.69 to 180 plf at 21.62
TC- From 180 plf at 21.62 to 180 plf at 27.06
TC- From 180 plf at 27.06 to 180 plf at 36.38
TC- From 180 plf at 36.38 to 180 plf at 44.01
TC- From 180 plf at 44.01 to 180 plf at 44.33
TC- From 180 plf at 44.33 to 180 plf at 57.00
BC- From 13 plf at -2.00 to 13 plf at 0.00
BC- From 60 plf at 0.00 to 60 plf at 19.73
BC- From 60 plf at 19.73 to 60 plf at 36.16
BC- From 60 plf at 36.16 to 60 plf at 55.00
BC- From 13 plf at 55.00 to 13 plf at 57.00
TC- 265.00 lb Conc. Load at 15.04, 17.04, 19.04, 21.04
23.04, 25.04, 27.04, 29.04, 31.04, 33.10, 33.81

WARNING: Furnish a copy of this DWG to the Installation contractor.
Special care must be taken during handling, shipping and installation of
trusses. See "WARNING" note below.

See DWGS A11015050109 & GBLETTIN0109 for more requirements.

+ MEMBER TO BE Laterally Braced For Out Of Plane Wind Loads.
BRACING SYSTEM TO BE DESIGNED AND FURNISHED BY OTHERS.

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3" nails
Top Chord: 1 Row @10.50" 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 7-05, CLOSED bldg, not located
within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind
BC DL=5.0 psf, Iw=1.00 Gcpl(+/-)=0.18

Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

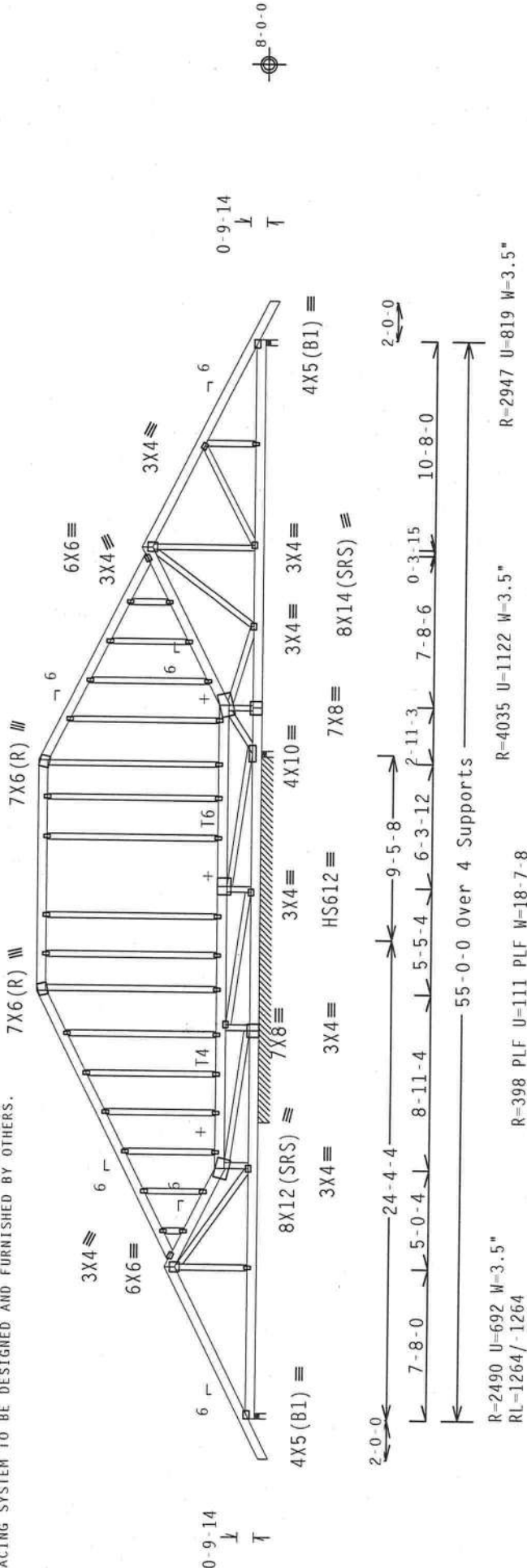
In lieu of structural panels use purlins to brace TC @ 24" OC.

Trusses to be spaced at 72.0" OC maximum.

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

The overall height of this truss excluding overhang is 11-3-11.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



R=2490 U=692 W=3.5"
RL=1264/-1264

R=398 PLF U=111 PLF W=18-7-8

R=4035 U=1122 W=3.5"

R=2947 U=819 W=3.5"

55-0-0 Over 4 Supports

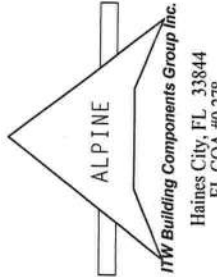
Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. 20 Gauge HS, Wave

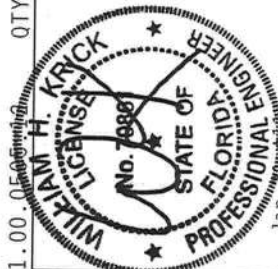
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300
INDUSTRIAL LANE, HADISON, NJ 07731) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
OTHERWISE INDICATED, ALL DIMENSIONS 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 FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH
TPI1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING OR BRACING.
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ASEP) AND TPI. ITW REG
CONNECTOR PLATES ARE MADE OF 20/10/10GA (N/1/25X) ASH A653 GRADE 40/60 (W, X/1/55) GALV. STEEL. APPROX
PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2.
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMH EX 3 OF TPI-2002 SEC. 3. A SEAL ON THIS
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT
DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Scale = .125" / Ft.

TC LL	20.0 PSF	REF	R215--	62978
TC DL	10.0 PSF	DATE	01/21/11	
BC DL	10.0 PSF	DRW	HCUSR215	11021036
BC LL	0.0 PSF	HC-ENG	JB/WHK	
TOT.LD.	40.0 PSF	SEQN-	289793	
DUR.FAC.	1.25	FROM	CDM	



:Lt Slider 2x4 SP #2 N:	BLOCK LENGTH = 1.977'
:Rt Slider 2x4 SP #2 N:	BLOCK LENGTH = 1.977'

1	FL/-/5/-/-/R/-	Scale = .125"/Ft.	
	TC LL	20.0 PSF	REF R215-- 62980
	TC DL	10.0 PSF	DATE 01/21/11
	BC DL	10.0 PSF	DRW HCUSR215 11021013
	BC LL	0.0 PSF	HC-ENG JB/WHK
	TOT.LD.	40.0 PSF	SEQN- 289813
	DUR.FAC.	1.25	FROM CDM

Top chord 2x6 SP #2 N :T3 2x4-SP #2 N:
Bot chord 2x4 SP #2 N :B4 2x4 SP SS:
Webs 2x4 SP #2 N

:Lt Slider 2x4 SP #2 N: BLOCK LENGTH = 1.977'
:Rt Slider 2x4 SP #2 N: BLOCK LENGTH = 2.268'

Roof overhang supports 2.00 psf soffit load.

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

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

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

The overall height of this truss excluding overhang is 11-3-11.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

(I) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

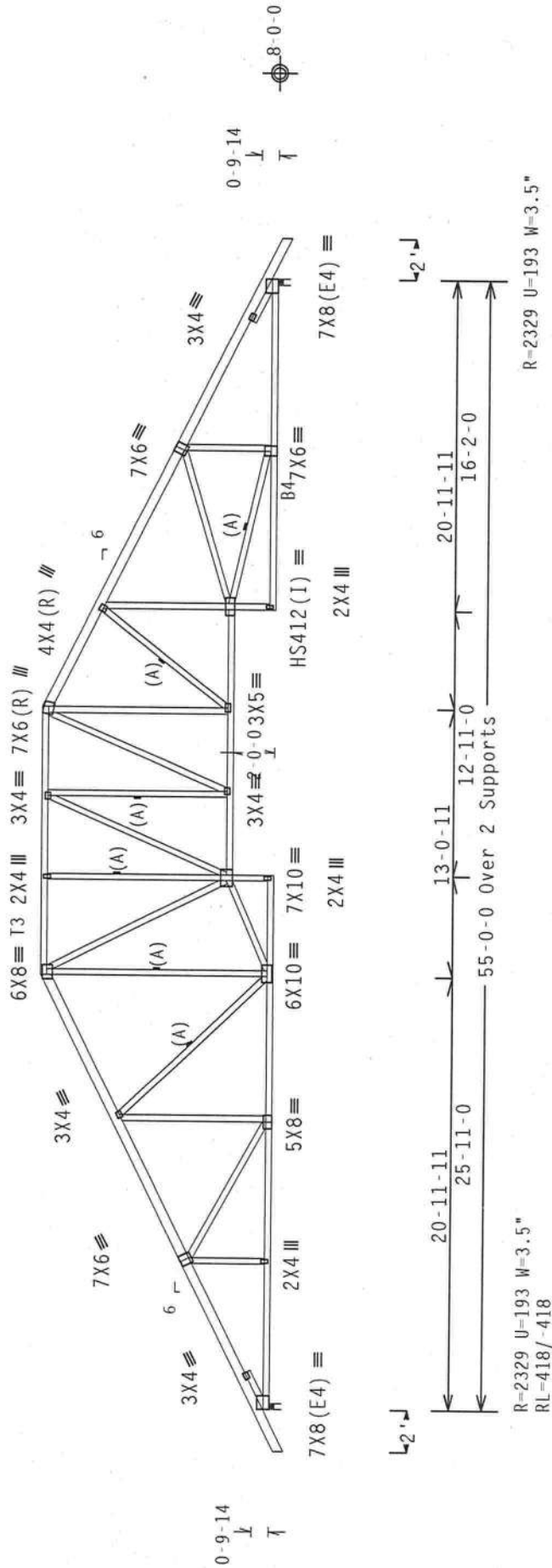
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

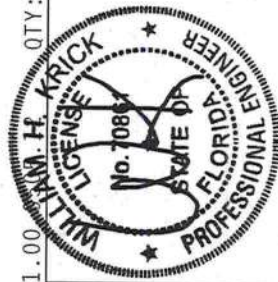
(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



PLT TYP. 20 Gauge HS.Wave
Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=20%(0%)/10(0)



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

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI BCS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN, OR ANY FAILURE TO FOLLOW THE DESIGN, SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER AND NOT THE TRUSS MANUFACTURER.

TC LL	20.0 PSF	FL/-/5/-/-/R/-	Scale = .125"/Ft.
TC DL	10.0 PSF	REF R215-- 62981	
BC DL	10.0 PSF	DATE 01/21/11	
BC LL	0.0 PSF	DRW HCUSR215 11021014	
TOT.LD.	40.0 PSF	HC-ENG JB/WHK	
DUR.FAC.	1.25	SEQN- 289820	
		FROM CDM	

Top chord 2x6 SP #2 N
Bot chord 2x4 SP #2 N :B3 2x4 SP #2 Dense:
:B4 2x4 SP SS:

Webbs 2x4 SP #2 N	
:Lt Slider 2x4 SP #2 N:	BLOCK LENGTH = 1.979'
:Rt Slider 2x4 SP #2 N:	BLOCK LENGTH = 2.268'

Roof overhang supports 2.00 psf soffit load.

Calculated horizontal deflection is 0.18" due to live load and 0.17" due to dead load.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

The overall height of this truss excluding overhang is 11-3-14.

WVFRS loads based on trusses located at least 15.00 ft. from roof edge.

(I) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

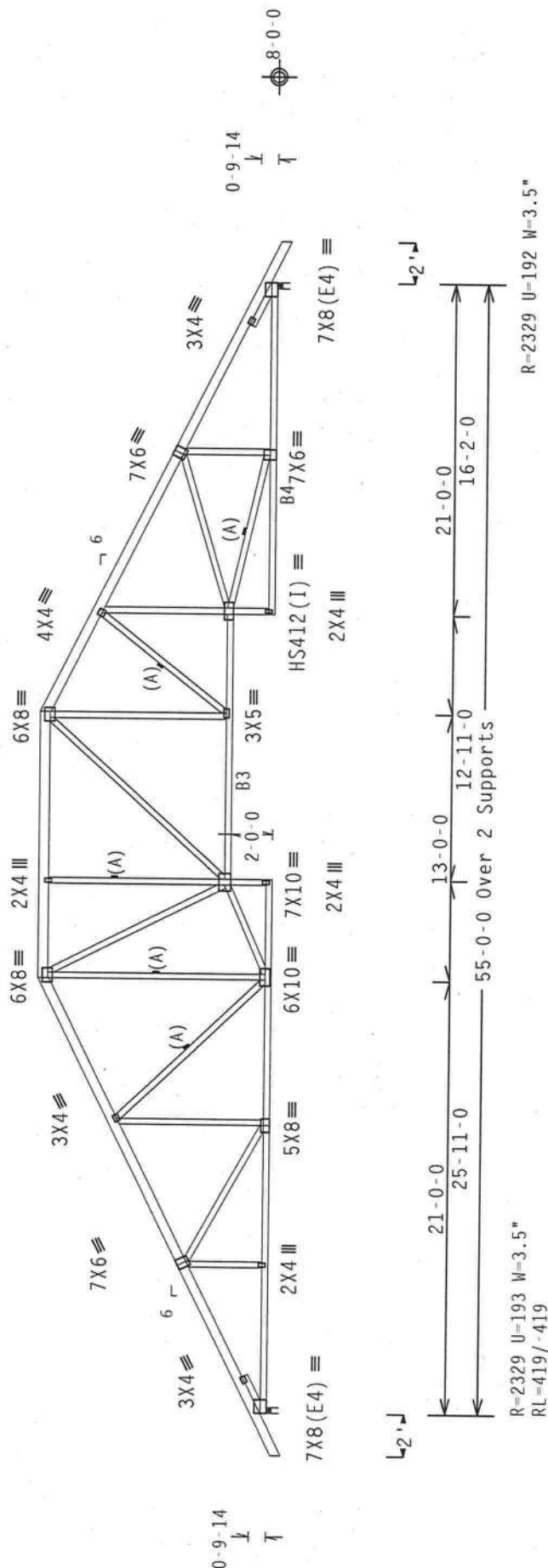
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



PLT TYP. 20 Gauge HS. Wave

Design Crit: $\text{FBC2007Res/TPI} - 2002(\text{STD})$
 $\text{FT/RT} = 20\%(0\%) / 10(0)$

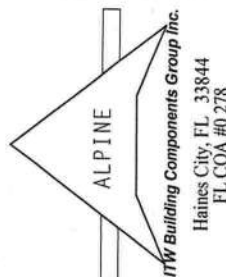
Scale = .125"/Ft.

TC LL	20.0 PSF	REF	R215 - - 62982
TC DL	10.0 PSF	DATE	01/21/11
BC DL	10.0 PSF	DRW	HCUSR215 11021015
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	289825
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1U8S215 Z01

[illegible]

****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 THIS DESIGN CONSTITUTE, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

THE SPECIFIC PROVISIONS OF ASTM (NATIONAL SPEC. BY A/E/P) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE TO THE SPECIFICATIONS OF ASTM A563 GRADE 40/60 (H. K/H-55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND JOINTS. THE TRUSS SHALL BE DESIGNED TO SUPPORT A LOAD OF 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE CONDUCTED PER PARAGRAPH 160A-2. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Top chord 2x6 SP #2 N
Bot chord 2x4 SP SS :B1 2x4 SP #2 Dense:

Top chord 2x6 SP #2 N

Bot chord 2x4 SP SS :B1 2x4 SP #2 Dense:

: B3 2x4 SP #2 N:

	#1	#2	N
Webs	2x4	2x4	SP
			#2 N

WEDS 2X4 ST #2 N
... 1st Slider 2x4 SP #2 N • BLOCK LENGTH = 2 6221

	#2	N:	BLOCK LENGTH	=	2,623
:LC SLIDER ZX4 SP	SD	#2	N:	BLOCK LENGTH	2,200
:PT SLIDER ZX4 SP	SD	#2	N:	BLOCK LENGTH	2,200

Roof overhang supports 2.00 psf soffit load.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

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

The overall height of this truss excluding overhang is 10-3-14.

AWFRS loads based on trusses located at least 15.00 ft. from roof edge.

(I) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

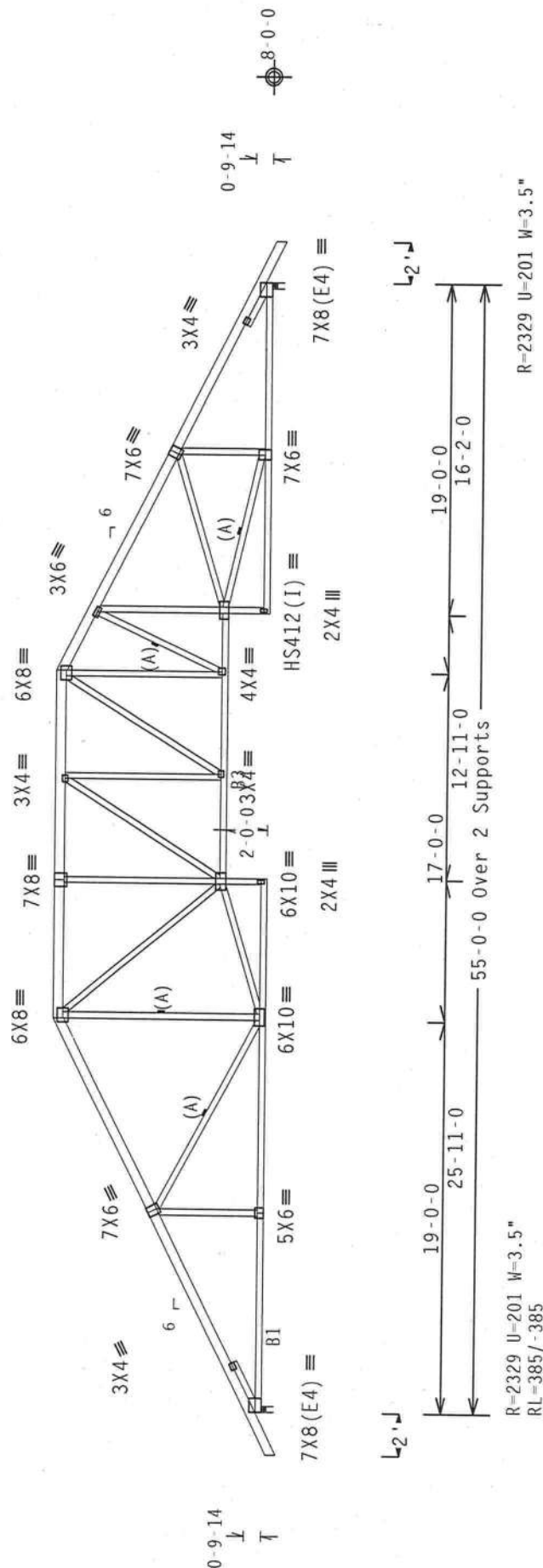
1110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpl(+/-)=0.18

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

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

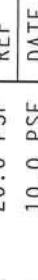
WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=20%(0%)/10(0)

PLT TYP. 20 Gauge HS. Wave

QTY:1 FL/-/5/-/-/R/- Scale = .125"/Ft.



ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0278

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 RUSSELL LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND UTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

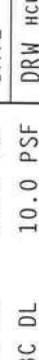
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI.

CONNECTION PLATES ARE MADE OF 20/18/16GA (4-HYSS/P) ASTM A653 GRADE 40/50 (4, K/H, SS) GALV. STEEL, BCG PLATED TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2.

ATTENTION: SECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A.3 OF TPI-2002 SEC.3. A SEAL OR 160A-2 ORAMING TECHNIQUES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN.

DESIGNER SHALL VERIFY THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



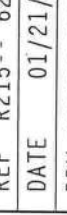
Jan 21 11

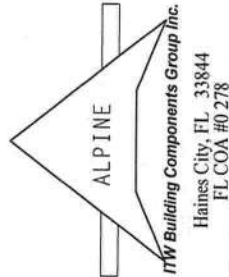
REF R215 - 62983	TC LL	20.0 PSF	DRW HCURSR215 11021016
DATE 01/21/11	TC DL	10.0 PSF	HC-ENG JB/WHK
	BC DL	10.0 PSF	SEQN - 289808
	BC LL	0.0 PSF	FROM CDM
	TOT. LD.	40.0 PSF	JREF - 1U8S215_Z01
	DUR. FAC.	1.25	
	SPACING	24.0"	

MFERS loads based on trusses located at least 15.00 ft. from roof edge.



Scale = .125"/Ft.

	TC LL	20.0	PSF	REF R215-- 62985
	TC DL	10.0	PSF	DATE 01/21/11
	BC DL	10.0	PSF	DRW HCUR215 11021018
	BC LL	0.0	PSF	HC-ENG JB/WHK
	TOT.LD.	40.0	PSF	SEQN- 289397
	DUR.FAC.	1.25		FROM CDM
SPACING			24.0"	JREF- 1108215 701



(7088C-/KEEN RESIDENCE /Plumb Level Construction -- , FL - C8)

Top chord 2x6 SP #2 N
Bot chord 2x6 SP #2 N
Webs 2x4 SP #2 N

Roof overhang supports 2.00 psf soffit load.

Calculated horizontal deflection is 0.23" due to live load and 0.22" due to dead load.

(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

Calculated vertical deflection is 0.57" due to live load and 0.55" due to dead load at X = 25'-9".

The overall height of this truss excluding overhang is 7'-3"-14".

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

(I) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

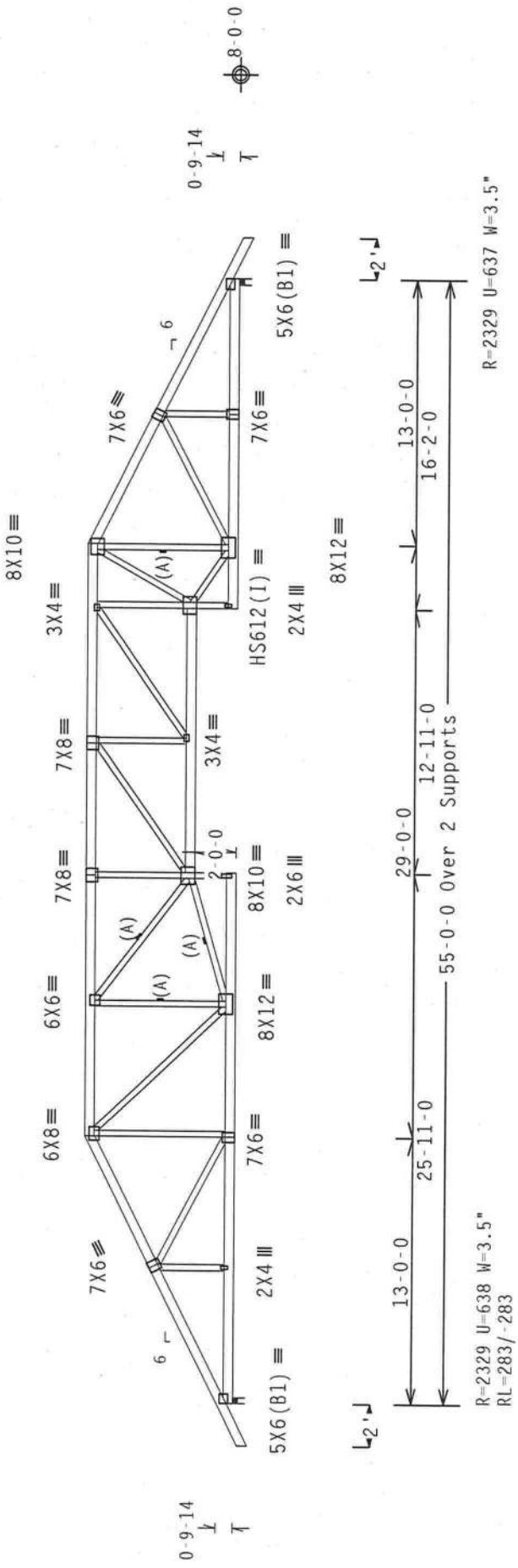
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



Design Crit: FBC2007Res/TPI-2002(STD)

PLT TYP. 20 Gauge HS.Wave

FT/RT=20%(0%)/10(0)

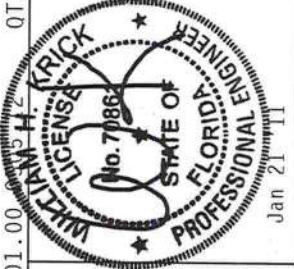
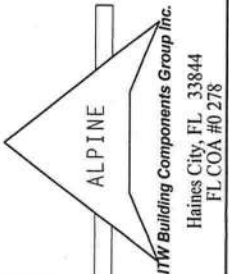
10.01.00

QTY:1

Scale = .125"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST "BUILDING COMPONENT SAFETY PRACTICES" PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314, AND WICKI WOOD TRUSS COMPANY, 1000 W. 10TH AVE., ENTERPRISE LANE, MADISON, MI 48719 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 AF&PA) AND TPI. 1TH BCG CONNECTOR PLATES ARE MADE OF 2018/10GA (H-H/SS/K) ASTM A653 GRADE 40/60 (H, K/H-SS) GALV. STEEL. APPLY ANTIMONY COATING TO ALL TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES SHALL BE PERFORMED AS OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER. ENGINEER'S SEAL IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R215--	62986
TC DL	10.0 PSF	DATE	01/21/11	
BC DL	10.0 PSF	DRW	HCUSR215	11021019
BC LL	0.0 PSF	HC-ENG	JB/WHK	
TOT.LD.	40.0 PSF	SEQN-	289374	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1U8S215_Z01	

Top chord 2x6 SP #2 N
Bot chord 2x6 SP #2 N :B2, B3 2x6 SP SS:
Webs 2x4 SP #2 N
Filler 2x4 SP #2 N

(1) - plates so marked were sized using a Fabrication Tolerance of 0% and a Rotational Tolerance of 0 degrees.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. IW=1.00 GCpi (+/-)=0.18

Wind reactions based on MMFRS pressures.

Laterally brace BC at 24" OC in lieu of rigid ceiling. Laterally brace BC above filler at 24" OC.

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

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.

MMFRS loads based on trusses located at least 7.50 ft. from roof edge.

Roof overhang supports 2.00 psf soffit load.

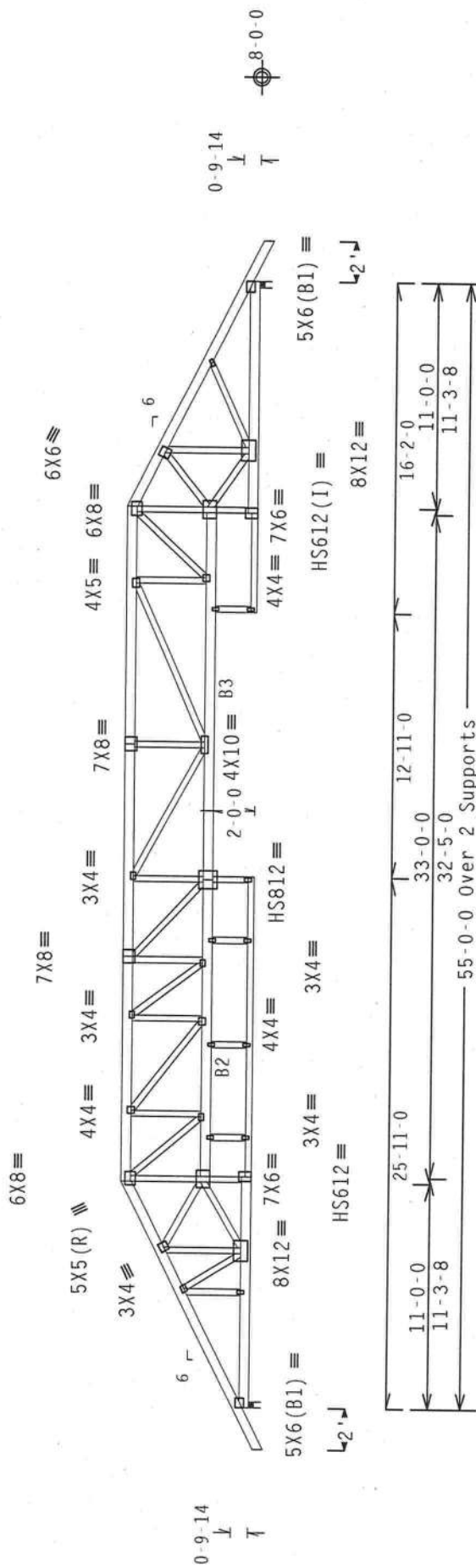
Calculated horizontal deflection is 0.29" due to live load and 0.29" due to dead load.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Calculated vertical deflection is 0.75" due to live load and 0.73" due to dead load at X = 25'-7-8.

The overall height of this truss excluding overhang is 6'-3-14.



R-2329 U-640 W-3.5"
RL-249/-249

R-2329 U-639 W-3.5"

Note: All Plates Are 2X4 Except As Shown.

PLT TYP. 20 Gauge HS.Wave

Design Crit: FBC2007Res/TPI-2002 (STD)

FT/RT=20%(0%)/10(0)

10.01.00

QTY:1

FL/-5/-/-/R/-

Scale =.125"/Ft.

REF R215-- 62987

DATE 01/21/11

DRW HCUSR215 11021020

HC-ENG JB/WHK

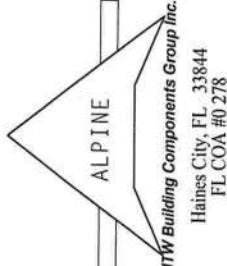
SEQN- 289573

FROM CDM

JREF- 1U8S215_Z01

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI BUILDING COMPONENT SAFETY INSTITUTE, INC. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) AND THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST), 101 BUREAU OF ENTERPRISE LANE, MADISON, MI 48719) FOR SAFETY PRACTICES PRIOR TO PERFORMING WORK. 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 BCSI, 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. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/P) AND TPI. 1TH BCS CONNECTOR PLATES ARE MADE OF 20/18/16GA (M-17/55/8) ASPM A653 GRADE 40/60 (M, K/H/SS) GALV. STEEL. APPLY ANY OTHER SPECIFIC PLATE REQUIREMENTS TO THIS DESIGN. POSITION PER DRAWING 100A-2. ANY DEVIATION FROM THIS DESIGN SHALL BE FOLLOWED BY (1) SHALL BE PER AMER A3 OF TPI-2002 SEC.3. A SEAL ON THIS DESIGN INDICATES THE DESIGNER'S ACCEPTANCE OF THE DESIGN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



Jan 21 '11

Top chord 2x6 SP #2 N :T1, T5 2x4 SP #2 N:

Bot chord 2x6 SP #2 N

Webs 2x4 SP #2 N

:Lt Slider 2x4 SP #2 N: BLOCK LENGTH = 1.973'

:Rt Slider 2x4 SP #2 N: BLOCK LENGTH = 1.973'

Brq blocks:0.131"x3" nails

brg x-loc #blocks length/blk #nails/blk wall plate

2 40.833' 1 12" 13 Rigid Surface

Brq block to be same size and species as bottom chord.

Refer to drawing CNAILSP0109 for more information.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpl(+/-)=0.18

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

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

The overall height of this truss excluding overhang is 4-3-14.

2 COMPLETE TRUSSES REQUIRED

Nail Schedule:0.131"x3" 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.

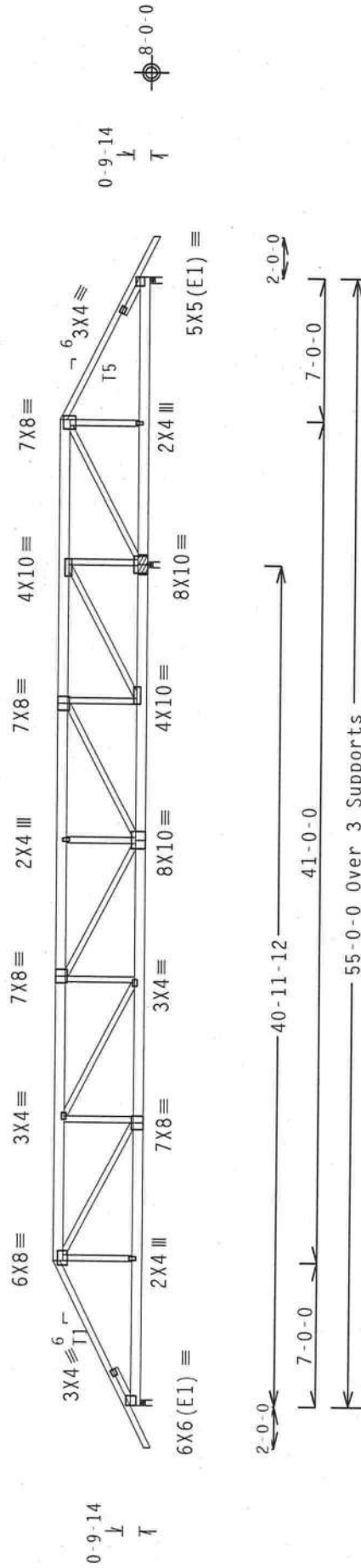
*** Negative reaction(s) of -445# MAX. (See below) from a non-wind load case requires uplift connection.

Wind reactions based on MWFRS pressures.

Roof overhang supports 2.00 psf soffit load.

#1 hip supports 7-0-0 jacks W/2 panel TC and no end vert.

WARNING: Furnish a copy of this DWG to the installation contractor. Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below.



R=2883 U=792 W=3.5"

R=6673 U=1750 W=3.5"

*** R=-445 Rw=81 U=0 W=3.5"

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002 (STD)

FT/RT=20%(0%)/10(0)

10.01.00.05

QTY:1

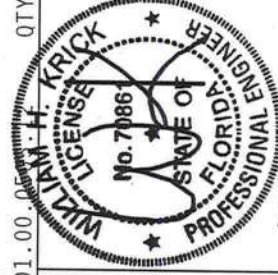
FL/-/5/-/-/R/-

Scale =.125"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. RELEVANT CODES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (KRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, TAMPA, FL 33606), AIA (AMERICAN INSTITUTE OF ARCHITECTS, 1735 M STREET, N.W., WASHINGTON, DC 20036), AND OTHERS, SHALL BE CONSULTED PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278



TC LL	20.0 PSF	REF	R215--	62989
TC DL	10.0 PSF	DATE	01/21/11	
BC DL	10.0 PSF	DRW	HCUSR215	11021037
BC LL	0.0 PSF	HC-ENG	JB/WHK	
TOT.LD.	40.0 PSF	SEQN-	289790	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1U8S215	Z01

Top chord	2x4	SP	#2	N
Bot chord	2x4	SP	#2	N
Web	2x4	SP	#2	N
:Lt Slider	2x6	SP	#2	N

:lt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.500'

Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

MFERS loads based on trusses located at least 15.00 ft. from roof edge.

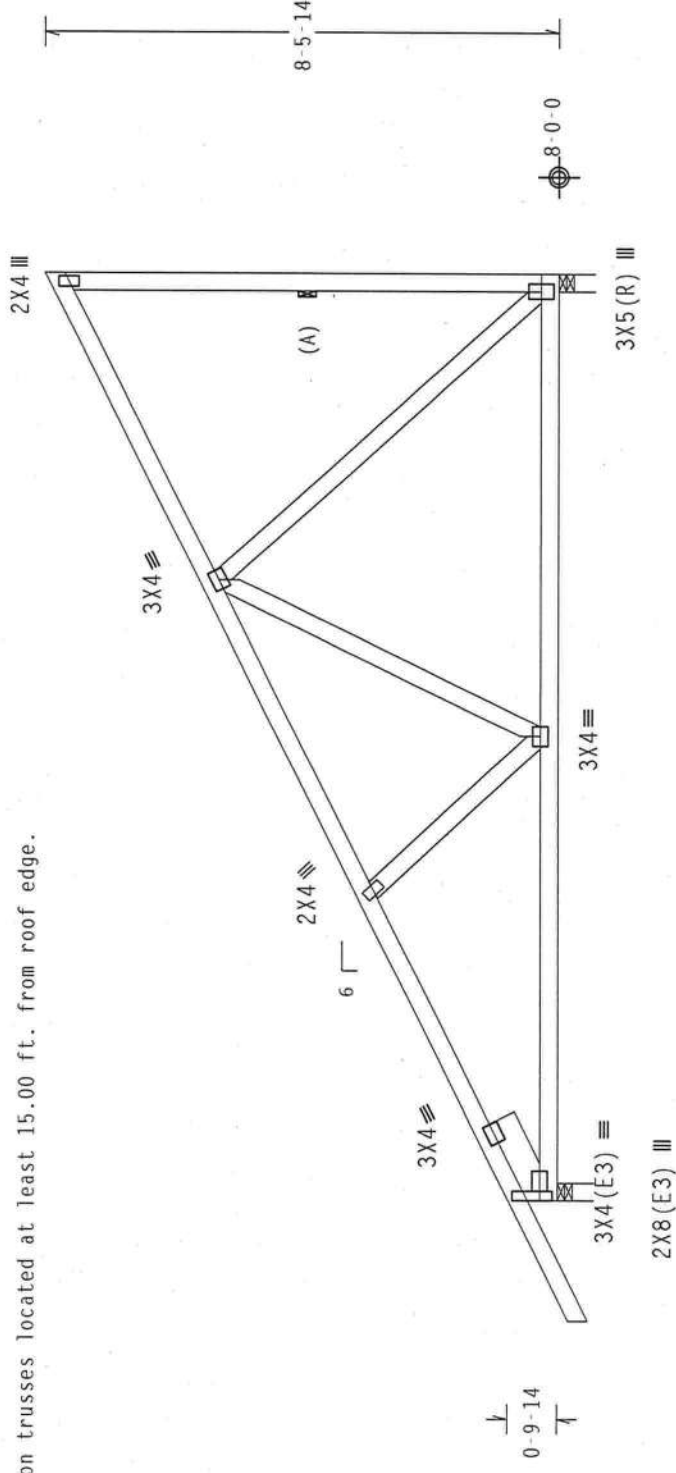
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

The overall height of this truss excluding overhang is 8-5-14.



72007

- 15-4-0 Over 2 Supports

R=777 U=50 W=3.5"

RL=197/-96

R=665 U=121 W=3.5"

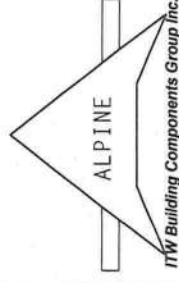
Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=20%(0%) /10(0)

PLT TYP. Wave

10.01.00

QTY: 6 FI / - / 5 / - / - / R / -

Scale = .3125"/Ft.



Haines City, FL 33844
FL COA #0278

*WARNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. ALL TRUSSES MUST BE PROPERLY SUPPORTED DURING FABRICATION AND SHIPMENT. THE CROSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 302, ALEXANDRIA, VA 22304, TEL: 703-690-2211, FAX: 703-690-2212, PROVIDES UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

[illegible]

Jan 21 '11

TC LL	20.0	PSF	REF R215--	62990
TC DL	10.0	PSF	DATE	01/21/11
BC DL	10.0	PSF	DRW HCUR215	11021009
BC LL	0.0	PSF	HC-ENG JB/WHK	*
TOT.LD.	40.0	PSF	SEQN-	289159
DUR.FAC.	1.25		FROM	COM
SPACING	24.0"		JRFF-	1108S215 701

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

: Lt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.696'

Roof overhang supports 2.00 psf soffit load.

(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

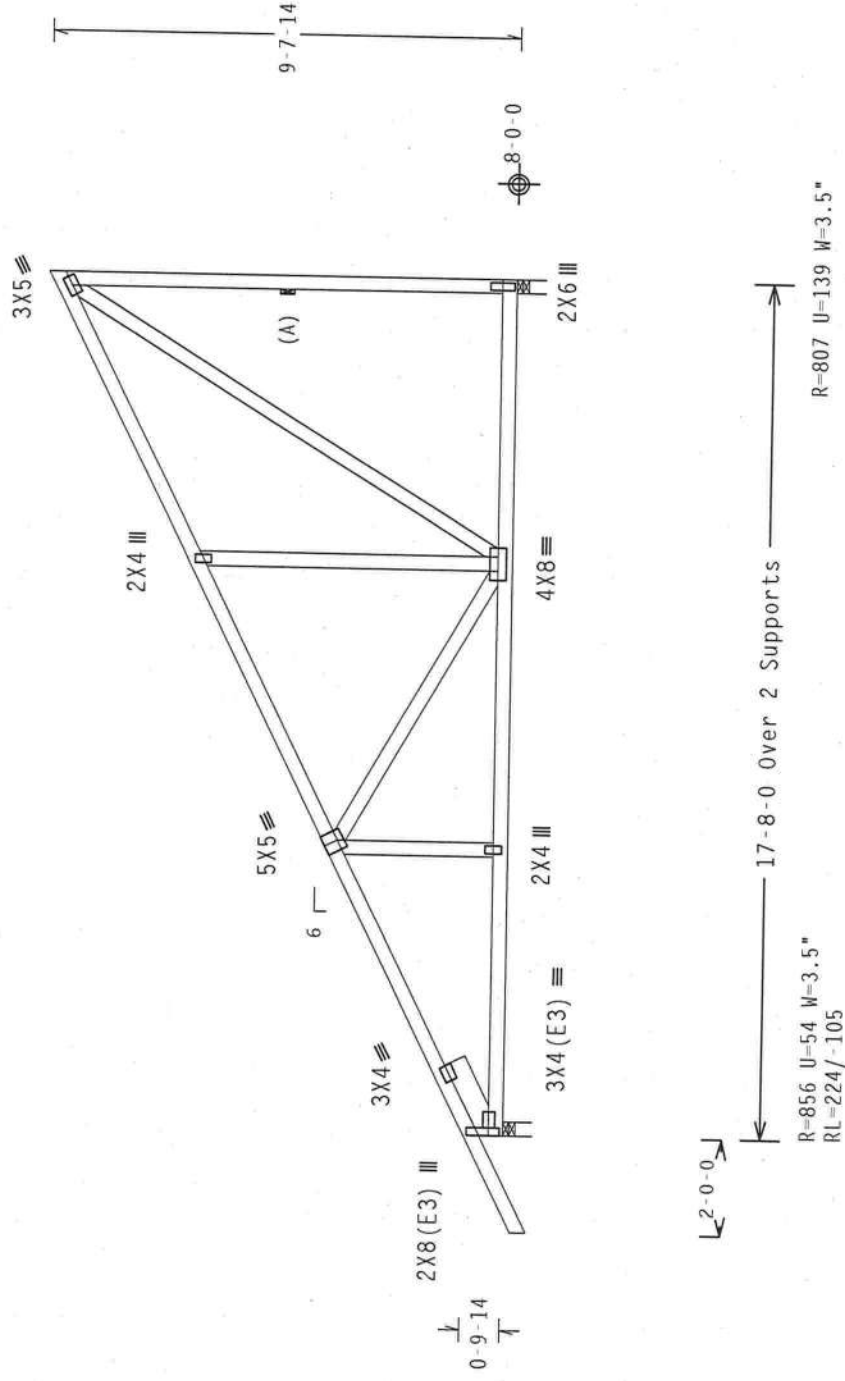
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical not exposed to wind pressure.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

The overall height of this truss excluding overhang is 9-7-14.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)

 $FT/RT=20\%(0\%)/10(0)$

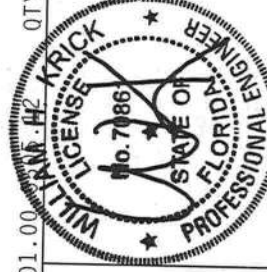
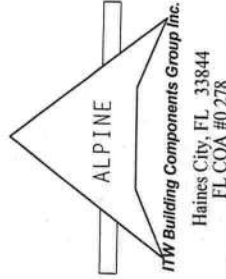
10.01.00.

QTY:6 FL/-/5/-/-/R/-

Scale = .25"/Ft.

REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEC STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND HCA (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.

IMPORTANTFURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITU BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN OR WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AFAPA) AND TPI... ITU BCG CONNECTOR PLATES SHALL BE ORDERED WITHIN 60 DAYS OF 2019/16GA (4-H/55/KR) ASTM A663 GRADE 40/60 (4 K/H-55) GALV. STEEL. APPLY PLATES TO EACH FACE OF JOINTS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWING ERECTION SHALL BE PER ANEX A.3 OF TPI-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESTROYER PER ANSI/TPI 1 SEC. 2.



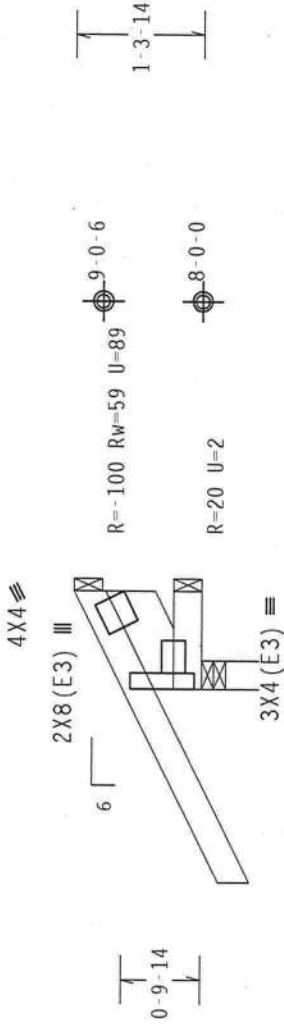
Jan 21 '11

JREF- 11185215 701

(7088C-/KEEN RESIDENCE /Plumb Level Construction -- , FL - J3)

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
:Rt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.210'
Roof overhang supports 2.00 psf soffit load.
Bottom chord checked for 10.00 psf non-concurrent live load.
The overall height of this truss excluding overhang is 1-3-14.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located
anywhere in roof, CAT II, EXP C, wind TC DL-5.0 psf, wind BC DL-5.0
psf. 1w=1.00 GCpi(+/-)-0.18
Wind reactions based on MWFRS pressures.
Deflection meets L/240 live and L/180 total load.



2-0-0
1-0-0 Over 3 Supports
R=298 U=112 W=3.5"
RL=49/-42

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=20%(0%)/10(0)

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

PLT TYP. Wave

10.01.00 QTY: 14 FL/-/5/-/-/R/-

Scale = .5"/Ft.

TC LL	20.0 PSF	REF	R215--	62992
TC DL	10.0 PSF	DATE	01/21/11	
BC DL	10.0 PSF	DRW	HCUSR215	11021022
BC LL	0.0 PSF	HC-ENG	JB/WHK	
TOT.LD.	40.0 PSF	SEQN-	289740	
DUR.FAC.	1.25	FROM	CDM	
SPACING	24.0"	JREF-	1U8S215	Z01

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC51 (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'S BUILDING COMPONENT SAFETY INFORMATION, OR ANY FAILURE TO FOLLOW THE INSTALLATION CONTRACTOR'S DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE IRC AND IBC. ALL TRUSS PLATES SHALL BE MADE OF 20/10/16GA (W/AS/PS) ASTM A563 GRADE 40/60 (W/PS) GALV. STEEL. ALL TRUSS PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER APPENDIX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

WILLIAM H. KRICK
LICENSE
No. 70851
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Jan 21 '11

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
:Lt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.500'

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg. Located anywhere in roof, CAT II, Exp C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

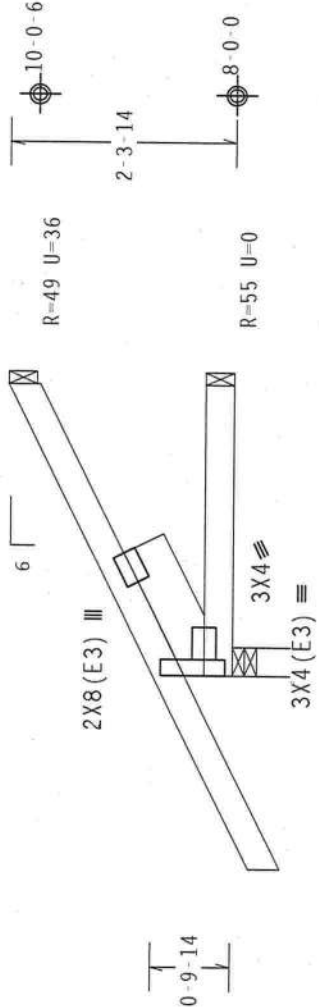
Wind reactions based on MWFRS pressures.

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

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

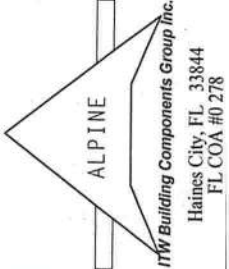
The overall height of this truss excluding overhang is 2-3-14.



2-0-0
3-0-0 Over 3 Supports
R-292 U=72 W=3.5"
RL=85/-49

Design Crit: FBC2007Res/TPI-2002 (STD)
FT/RT=20%(0%)/10(0)

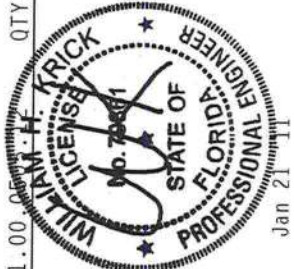
PLT TYP. Wave



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCTA (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 THE DESIGN SHALL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE TRUSS AND THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION.

QTY:14	FL/-/5/-/-/R/-	Scale = 5" / Ft.
TC LL	20.0 PSF	REF R215 - 62993
TC DL	10.0 PSF	DATE 01/21/11
BC DL	10.0 PSF	DRW HCUSR215 11021011
BC LL	0.0 PSF	HC-ENG JB/WHK *
TOT.LD.	40.0 PSF	SEQN - 289751
DUR.FAC.	1.25	FROM CDM
SPACING	24.0"	DIFF - 1108215 701



MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



*****IMPORTANT***** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE LIABLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TYPE OF MATERIALS SPECIFIED HEREIN, INCLUDING SHIPPING, INSTALLING & BRACING OF TRUSSES. THE DESIGNER CONFORMS WITH APPLICABLE CODES AND NATIONAL DESIGN SPEC. BY AISC/A AND TYP. CONNECTOR PLATES ARE MADE OF 2010/16GA. (40-0.053) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, (40-0.053) GALV. STEEL. APPLY ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANEX 43 OF IPTI-2002 SEC. 3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

QTY: 27	FL / - 5 / - / - R / -	Scale = 5" / Ft.
TC LL	20.0 PSF	REF R215 - - 62995
TC DL	10.0 PSF	DATE 01/21/11
BC DL	10.0 PSF	DRW HCUSR215 11021024
BC LL	0.0 PSF	HC - ENG JB / WHK
TOT. LD.	40.0 PSF	SEQN - 289101
DUR. FAC.	1.25	FROM CDM
SPACING	24.0"	JREF - 1108S215 701

Jan 21 1994

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

: Lt Slider 2x4 SP #2 N: BLOCK LENGTH = 1.500'

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCPI (+/-)=0.18

Wind reactions based on MWFRS pressures.

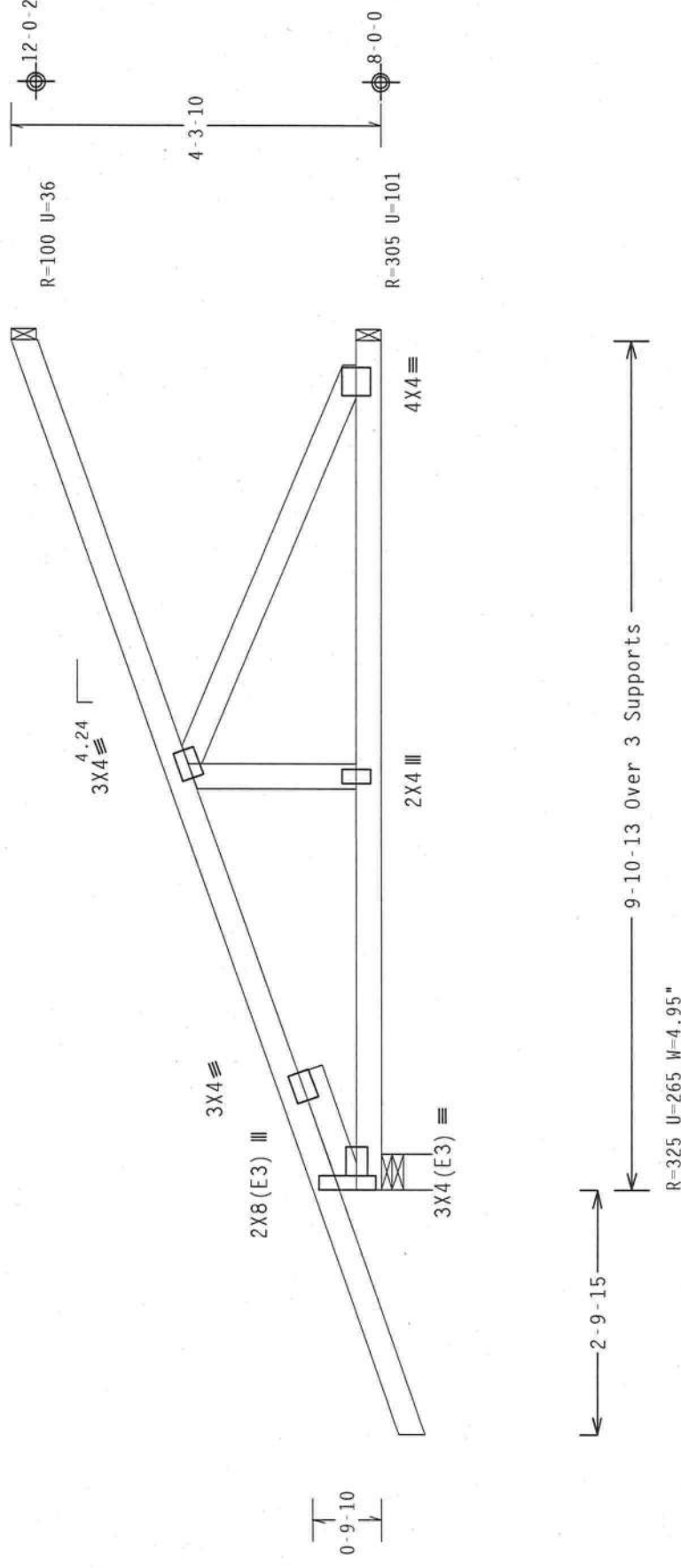
Roof overhang supports 2.00 psf soffit load.

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

The overall height of this truss excluding overhang is 4-3-10.

Special loads

Species	Number	Dur.Fac.=1.25	Plate	Dur.Fac.=1.25
TC-From	0 plf at -2.83 to		60 plf at	0.00
TC-From	2 plf at 0.00 to		2 plf at	0.00
BC-From	0 plf at -2.83 to		4 plf at	0.00
BC-From	2 plf at 0.00 to		2 plf at	9.90
TC-From	76.98 lb Conc. Load at	1.48		
TC-From	98.27 lb Conc. Load at	4.31		
TC-From	242.70 lb Conc. Load at	7.13		
BC-From	39.12 lb Conc. Load at	1.48		
BC-From	110.50 lb Conc. Load at	4.31		
BC-From	186.76 lb Conc. Load at	7.13		



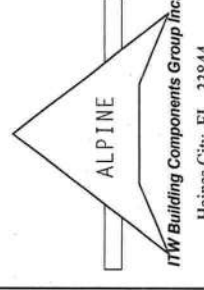
PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=20%(0%) /10(0)

10.01.00

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

Scale = .5"/Ft.



TC LL	20.0 PSF	REF	R215 -- 62997
TC DL	10.0 PSF	DATE	01/21/11
BC DL	10.0 PSF	DRW	HCUSR215 11021038
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	289761
DUR.FAC.	1.25	FROM	CDM

(7088C-/KEEN RESIDENCE /Plumb Level Construction -- , FL - J10)

Top chord 2x6 SP #2 N
Bot chord 2x6 SP #2 N
Webs 2x4 SP #2 N

:Lt Slider 2x4 SP #2 N: BLOCK LENGTH = 1.500'

Special loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 60 plf at 0.00 to 60 plf at 5.00
BC- From 20 plf at 0.00 to 20 plf at 2.06
BC- From 10 plf at 2.06 to 10 plf at 5.00
TC- 198.70 lb Conc. Load at 4.11
BC- 440.00 lb Conc. Load at 1.94, 3.94
BC- 120.87 lb Conc. Load at 4.11

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

The overall height of this truss excluding overhang is 3-3-14.

2 COMPLETE TRUSSES REQUIRED

Nail Schedule: 0.131"x3" nails
Top Chord: 1 Row @ 12.00" o.c.
Bot Chord: 1 Row @ 7.50" o.c.
Webs : 1 Row @ 4" o.c.

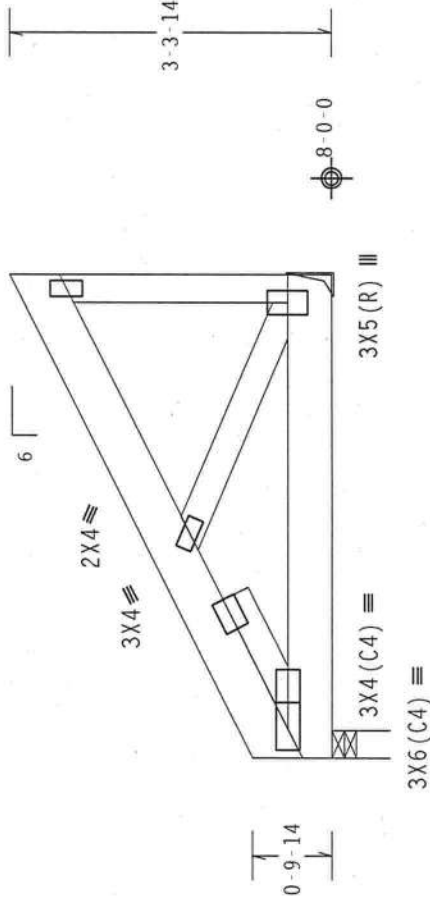
Use equal spacing between rows and stagger nails in each row to avoid splitting.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MMFRS pressures.

Right end vertical not exposed to wind pressure.

2X4 III



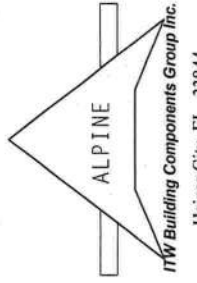
5-0-0 Over 2 Supports

R=649 U=187 W=3.5"

R=921 U=275
H-H1

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave



WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 WEST STREET, SUITE 200, ALEXANDRIA, VA 22304) AND TPI (TRUSS PLATE INSTITUTE, 218 WEST STREET, SUITE 200, ALEXANDRIA, VA 22304) FOR THE LATEST INFORMATION ON THE PROPER USE OF TRUSSES. OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE RCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC. BY AISC) AND TPI. THE RCG CONNECTOR PLATES ARE MADE OF 2010/166A (A-H/SS/K) ASTM A553 GRADE 40/60 (4, 8/16, 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 (I) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

QTY: 1

Scale = 5"/Ft.

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.25

REF	R215--	62998
DATE	01/21/11	
DRW	HCUSR215	11021032
HC-ENG	JB/WHK	
SEQN-	289769	
FROM	CDM	

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

:lt Slider 2x6 SP #2 N: BLOCK LENGTH = 1.500'

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

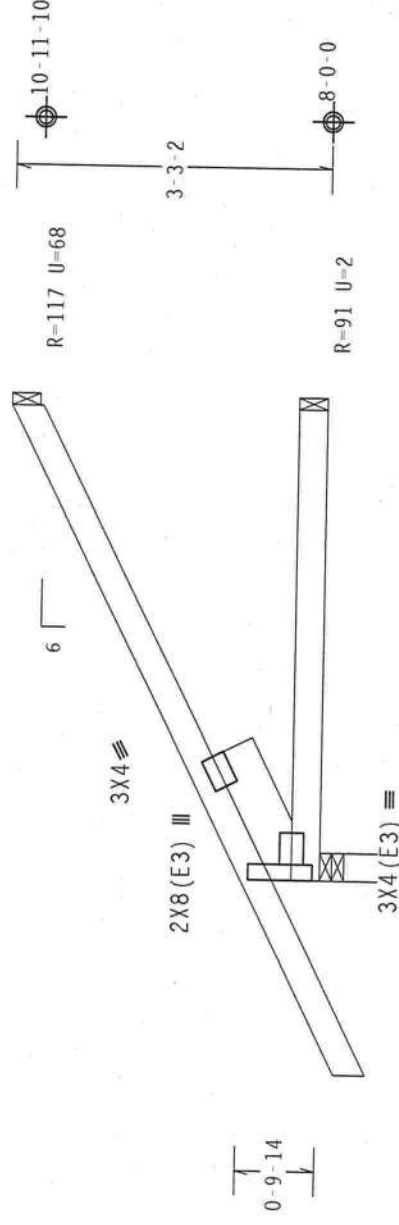
The overall height of this truss excluding overhang is 3-3-2.

110 mph wind. 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCPI(+/-)=0.18

Wind reactions based on MWFRS pressures.

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

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



2-0-0

4-10-8 Over 3 Supports →

R=350 U=78 W=3.5"

RL=117/-57

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)

FT/RT=20%(0%)/10(0)

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND DRAGING. SEEEN, FOR MORE.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, UNLOADING AND BRACING. SEE INSTRUCTIONS FOR PROPER BRACING.

REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALVANDOR, IL 60007.

NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO RECONSTRUCTION.

53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS
CAPTIVE CABLE, MADISON, WI OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD

A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW RCG, INC. SHALL NOT BE DEEMED RESPONSIBLE FOR THE ACCURACY OF THIS DESIGN.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC MATERIAL SPECIFICATIONS, AISC CODE OF PRACTICE FOR STEEL CONSTRUCTION, AISC DESIGN GUIDE NO. 1, AND AISC DESIGN GUIDE NO. 2. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC CODE OF PRACTICE FOR STEEL CONSTRUCTION, AISC DESIGN GUIDE NO. 1, AND AISC DESIGN GUIDE NO. 2. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC CODE OF PRACTICE FOR STEEL CONSTRUCTION, AISC DESIGN GUIDE NO. 1, AND AISC DESIGN GUIDE NO. 2.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI.
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.H/SS/K) ASTM A653 GRADE 80/60 100% MIN. STRENGTH. ITM 8CG

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITIONED ORANGE 3504 T

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11-2002 SEC.3. DRAWING INDICATES ACCEPTANCE OR REJECTION OF PLATES. 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 THE TRUSS COMPONENT IS THE RESPONSIBILITY OF THE USER. A SEAL ON THIS DRAWING IS REQUIRED BY 1911-2002 SEC. 3.

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.

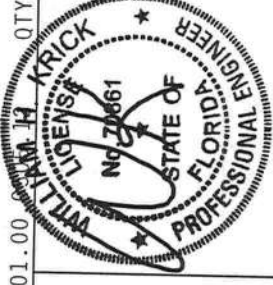
SOUNDING DEVICES PER ANSI/HPI 1 SEC. 2.

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278



Jan 21 '11

2	FL/-/5/-/-/R/-	Scale = .5" / Ft.	
	TC LL	20.0 PSF	REF R215 -- 63000
	TC DL	10.0 PSF	DATE 01/21/11
	BC DL	10.0 PSF	DRW HCUSR215 11021026
	BC LL	0.0 PSF	HC-ENG JB/WHK
	TOT.LD.	40.0 PSF	SEQN- 289776
	DUR.FAC.	1.25	FROM CDM

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
:Lt Slider 2x4 SP #2 N: BLOCK LENGTH = 1.597'

Hipjack supports 4-0-15 setback jacks with no webs.

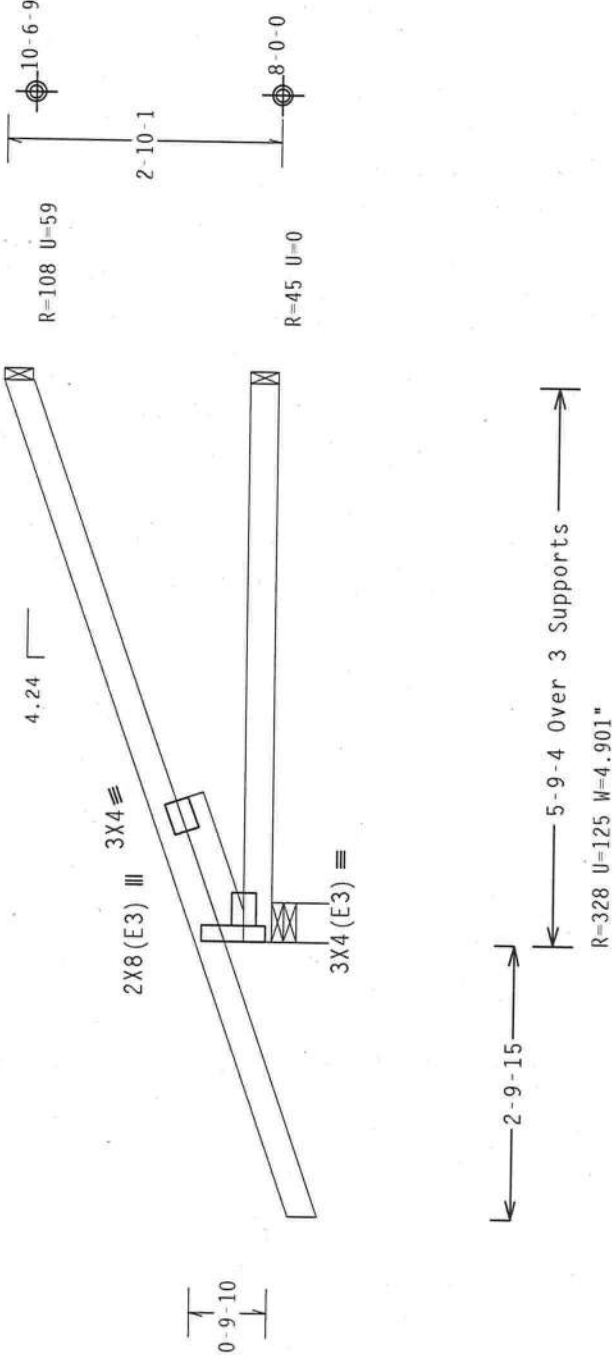
Deflection meets L/240 live and L/180 total load.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 2-10-1.



PLT TYP. Wave



Design Crit: FBC2007Res/TPI-2002(STD)

FT/RT=20%(0%)/10(0)

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO THE TRUSS MANUFACTURER'S INSTRUCTIONS FOR DETAILED INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 100, HAINES CITY, FL 33844) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48224). TRUSS MANUFACTURERS SHALL FOLLOW THESE PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/PA) AND TPI. THE REG. CONNECTOR PLATES ARE MADE OF 20/18/16GA (N.H/SS/K) ASTM A653 GRADE 40/60 (N. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 100A-2, 100B-2, 100C-2, 100D-2, 100E-2, 100F-2, 100G-2, 100H-2, 100I-2, 100J-2, 100K-2, 100L-2, 100M-2, 100N-2, 100O-2, 100P-2, 100Q-2, 100R-2, 100S-2, 100T-2, 100U-2, 100V-2, 100W-2, 100X-2, 100Y-2, 100Z-2. A SEAL ON THIS DESIGN INDICATES THE CONTRACTOR'S ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE CONTRACTOR'S ACCEPTANCE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

QTY: 1

FL/-/5/-/-/R/-

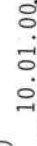
Scale = .5" / Ft.

TC LL	20.0 PSF	REF	R215 - 63001
TC DL	10.0 PSF	DATE	01/21/11
BC DL	10.0 PSF	DRW	HCUSR215 11021034
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN	289787
DUR.FAC.	1.25	FROM	CDM



The overall height of this truss excluding overhang is 2-1-12.

MFERS loads based on trusses located at least 15.00 ft. from roof edge.



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

DESIGN CONFORMS WITH ALL PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TP1.
CONNECTION PLATES ARE MADE OF STEEL PLATE 14-1/8"x160A (14-1/8x55)R51 ASH A653 GRADE 40/60 (1/4" E/H=55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS FOLLOWED BY (1) SMALLER PLATE LOCATED ON TOP SURFACE POSITION PER DRAWINGS 160A-2 THROUGH 160A-7. (2) SMALLER PLATE LOCATED ON BOTTOM SURFACE AS SHOWN. SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S 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 ANTI/TIP 1 SEC. 2.



ALPINE
ITW Building Components Group Inc.
 Haines City, FL 33844
 FL COA #0278

10.01.00.

****IMPORTANT****—FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITU BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN, INCLUDING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH THE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TP1. 1TH BCG

CONNECTOR PLATES ARE MADE OF STEEL PLATE 14-1/16"X 44-1/2"X 5/8" (ASTM A563 GRADE 40/60 1/4" K/H-55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS FOLLOWED BY (1) SMALLER PLATES LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SMALLER PLATES LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER'S 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 ANTI/TP1 SEC. 2.

QTY: 11		FL / - / 5 / - / - / R / -		Scale = .5" / Ft.	
TC LL	20.0 PSF	REF	R215 - -	63002	
TC DL	10.0 PSF	DATE	01/21/11		
BC DL	10.0 PSF	DRW	HCUSR215	11021027	
BC LL	0.0 PSF	HC-ENG	JB/WHK		
TOT. LD.	40.0 PSF	SEQN-	289075		
DUR. FAC.	1.25	FROM	CDM		

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

110 mph wind, 20.79 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, Exp C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MMFRS pressures.

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

Trusses to be spaced at 72.0" OC maximum.

The overall height of this truss excluding overhang is 14-2-15.

Refer to DWG PB1200109 for piggyback details.

2 COMPLETE TRUSSES REQUIRED

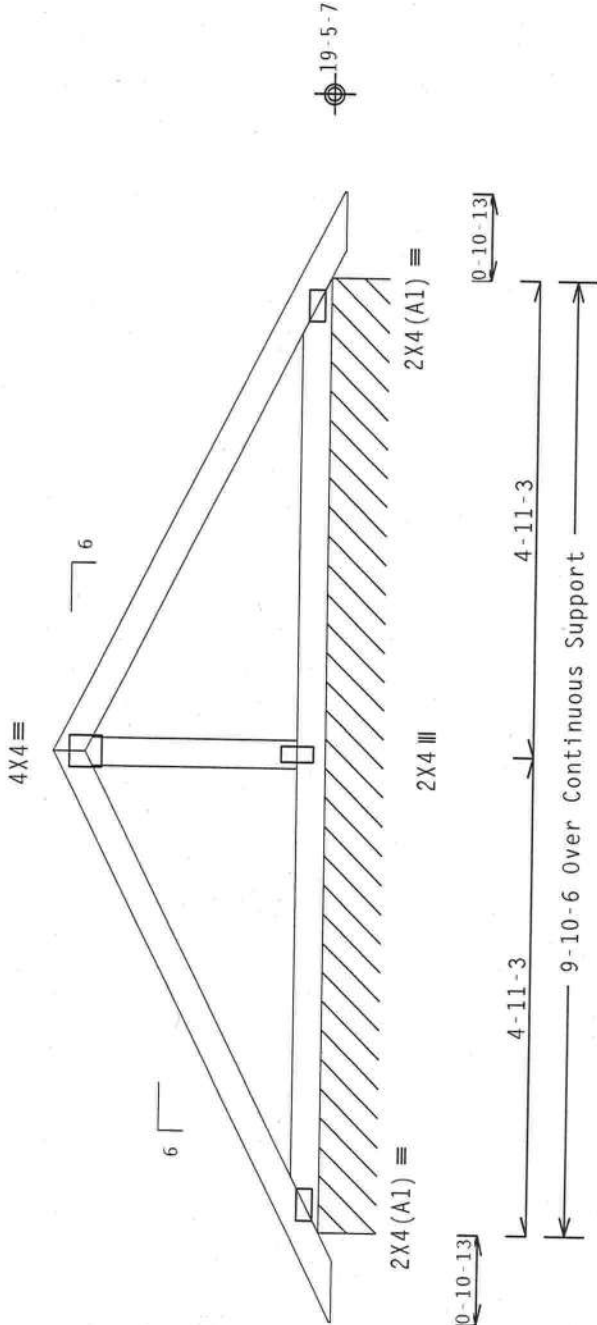
Nail Schedule: 0.131"x3" nails
Top Chord: 1 Row @ 12.00" O.C.
Bot Chord: 1 Row @ 12.00" O.C.
Webs: 1 Row @ 4" O.C.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/180 live and L/120 total load.

MMFRS loads based on trusses located at least 10.39 ft. from roof edge.



R=264 PLF U=70 PLF W=9-10-6
RL=29/-29 PLF

PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)

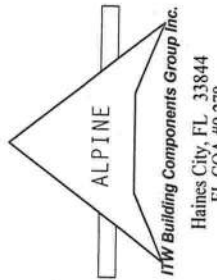
FT/RT=20%(0%)/10(0)

QTY: 1

Scale = .5" / Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING CONSTRUCTION SAFETY PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22304) AND RECA (ROOF CHORD COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRECAUTIONS PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITM BCG CONNECTOR PLATES ARE MADE OF 2019/166A (4-N/55/3) ASTM A663 GRADE 40/60 (4-N, 4-N/55) GALV. STEEL. APPLY 100% PENETRANT INSPECTION TO ALL WELDS. ANY INSPECTION SHALL BE FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTABLE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	FL/-/5/-/-/R/-	REF	R215--	63003
TC DL	10.0 PSF		DATE	01/21/11	
BC DL	10.0 PSF		DRW	HCUSR215	11021028
BC LL	0.0 PSF		HC-ENG	JB/WHK	
TOT.LD.	40.0 PSF		SEQN-	289291	
DUR.FAC.	1.25		FROM	CDM	

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

110 mph wind, 20.32 ft mean hgt, ASCE 7-05, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=2.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MMFRS pressures.

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

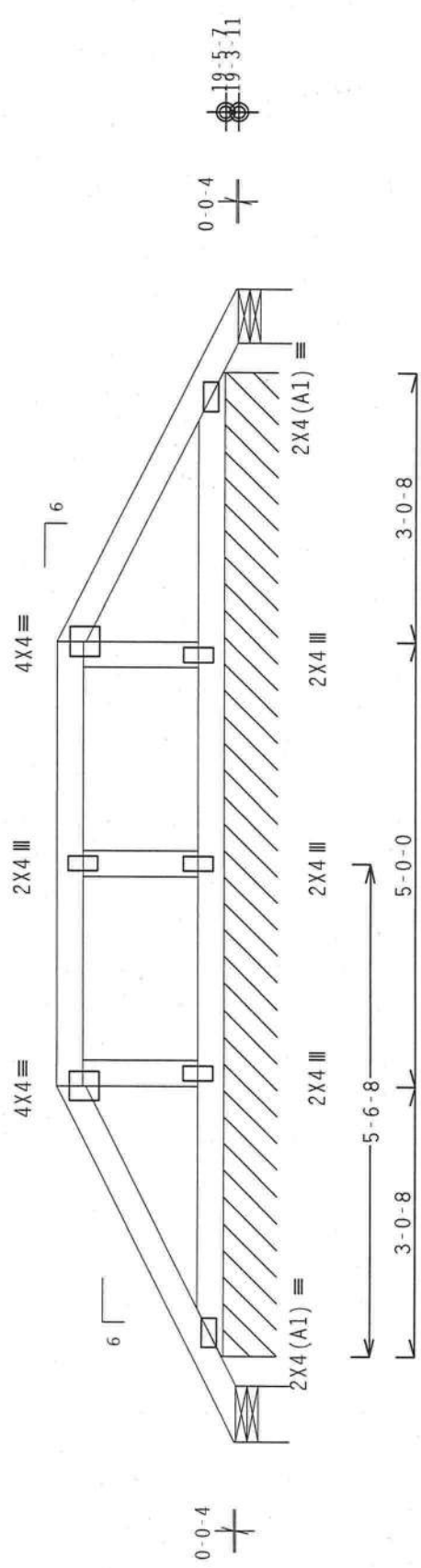
MMFRS loads based on trusses located at least 20.32 ft. from roof edge.

Refer to DWG PB1200109 for piggyback details.

Special loads
----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 60 plf at -0.94 to 60 plf at 3.04
TC- From 60 plf at 3.04 to 60 plf at 8.04
TC- From 60 plf at 8.04 to 60 plf at 12.03
BC- From 4 plf at -0.94 to 4 plf at 12.03

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

The overall height of this truss excluding overhang is 2-0-3.



R=-6 RW=30 U=32 W=7.326"
RL=56/-56

R=-6 RW=5 U=7 W=7.326"

R=-6 RW=5 U=7 W=7.326"

Design Crit: FBC2007Res/TPI-2002(STD)
FT/RT=20%(0%)/10(0)

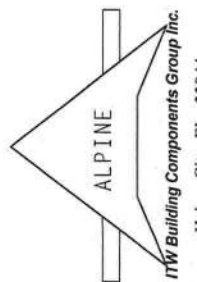
Scale =.5"/Ft.

QTY:1	FL/-5/-/-R/-	TC LL	20.0 PSF	REF	R215--	63005
		TC DL	10.0 PSF	DATE	01/21/11	
		BC DL	10.0 PSF	DRW	HCUSR215	11021030
		BC LL	0.0 PSF	HC-ENG	JB/WHK	
		TOT.LD.	40.0 PSF	SEQN-	289096	
		DUR.FAC.	1.25	FROM	CDM	



****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND NTC (NATIONAL 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 FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AIA/ASA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2010/16GA (H-H/SS/K) ASTM A563 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 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.



ASCE 7-05: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C, Kzt = 1.00

GABLE STUD REINFORCEMENT DETAIL

2X4 GABLE VERTICAL SPACING		BRACE SPECIES GRADE		NO BRACES		(1) 1X4 "L" BRACE •		(2) 2X4 "L" BRACE •		(1) 2X6 "L" BRACE •		(2) 2X6 "L" BRACE •	
						GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
12" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 5"	12' 5"	12' 9"	14' 0"	14' 0"
	HF	#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
	STANDARD	#1	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
	SP	#2	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
24" O.C.	DFL	#3	4' 2"	6' 2"	6' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
	STANDARD	#1	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
	SPF	#1 / #2	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
	HF	#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.	SPF	STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
	HF	#1 / #2	4' 11"	8' 5"	8' 5"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	STANDARD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	SPF	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"

MAX GABLE VERTICAL LENGTH

BRACING GROUP SPECIES AND GRADES:

GROUP A:

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

DOUGLAS FIR-LARCH

#3 STUD	SOUTHERN PINE
STANDARD	#3 STUD
	STANDARD

GROUP B:

HEM-FIR	#1 & BTR
#1	#1

SOUTHERN PINE

#1	DOUGLAS FIR-LARCH
#2	#1
	#2

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

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

GABLE END SUPPORTS LOAD FROM 4' 0"

OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

* FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C.

IN 18" END ZONES AND 4' O.C. BETWEEN ZONES.

** FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C.

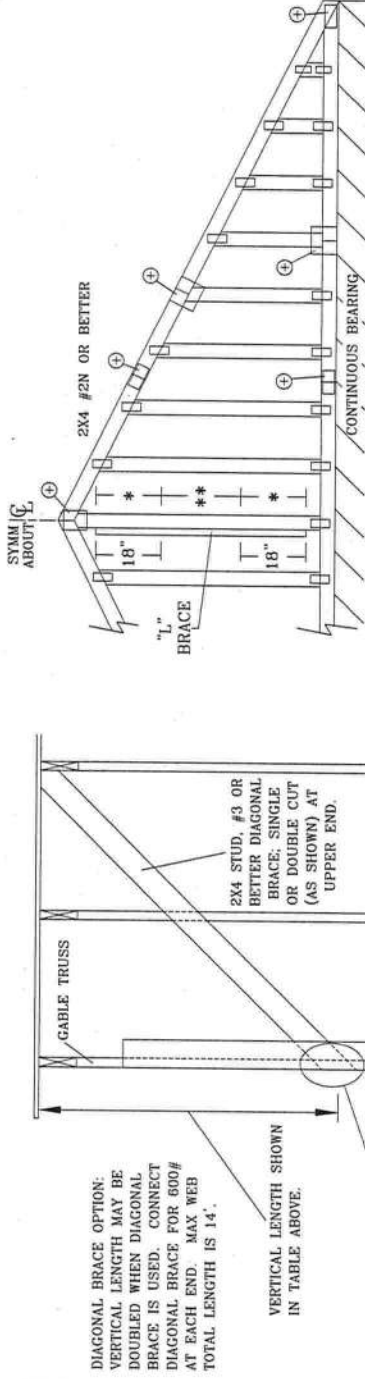
IN 18" END ZONES AND 6' O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2.5X4
GREATER THAN 11' 6"	3X4

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



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

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ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any failure to build the truss in conformance with ITWBCG instructions.

ITWBCG connector plates are made of 2018/180A (W/H/S/K) ASTM A663 grade 37/40/60 (K/W/H/S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details. A seal on this drawing or cover page indicates acceptance and 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.

ITW-BGC: www.itwbcg.com, TPI: www.tpiatl.com, WICK: www.sbcindustry.com, ICC: www.iccsafe.org



Building Components Group Inc.

Earth City, MO 63045



MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-05-GABI015

DATE 1/1/09

DRWG A11015050109

NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

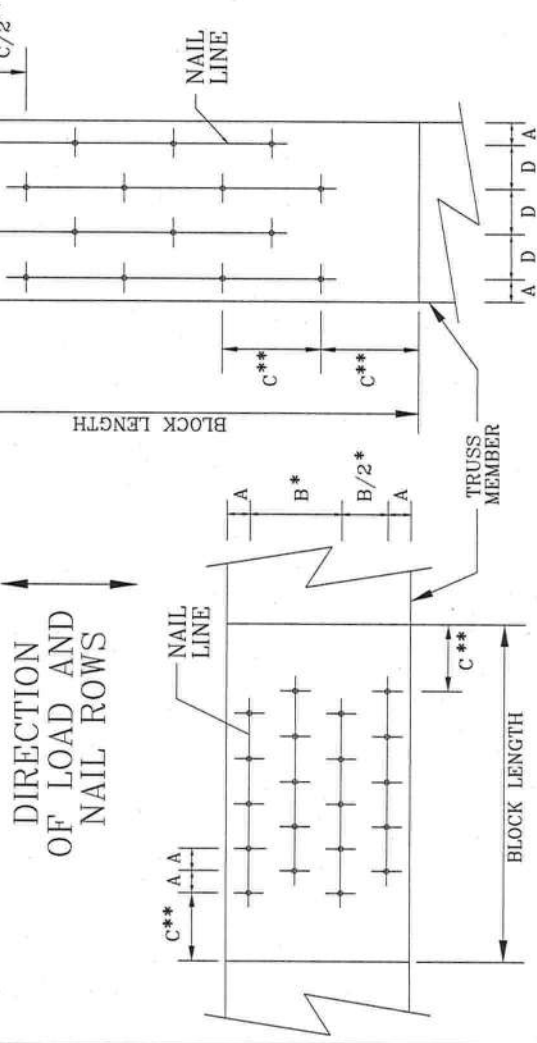
C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING

MAY BE
BELOW:

* SPACING MAY BE REDUCED BY 50%
** SPACING MAY BE REDUCED BY 33%



LOAD APPLIED PERPENDICULAR TO GRAIN LOAD APPLIED PARALLEL TO GRAIN



Building Components Group Inc.

Earth City, MO 63045

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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow BCSI (Building Component Safety Information, by TPI and WCA) for safety practices prior to performing these functions. Installers should use temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural panels and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3 & B7. See this job's general notes for more information.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.**
ITW Building Components has been designed to meet or exceed the deviation from this design, without the use of any other components, and without the use of any other components, and without any failure to build the truss in conformance with TPI or fabricating, installing, or bracing of trusses. ITWBCG connector plates are made of 20/18/16GA (W/H/S/K) ASTM A563 grade 37/40/60 (K/S/H/S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the use of this component in design shown. The suitability and use of this component for any building is the responsibility of the design engineer.
 ITW-BBCG: www.itw-bbcg.com TPI: www.tlpi.com ITWCA: www.theindustry.com: ICS: www.icsc.org



REF	NAIL SPACE
DATE	1/1/09
DRWG	CNNAILSP0109

NAIL TYPE	DISTANCES			
	A	B*	C**	D
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128"X 3",MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X 4",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148"X 3",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162"X 3.5",MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120"X 3",MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 3",MIN)	7/8"	1 5/8"	2"	1"

CLB WEB BRACE SUBSTITUTION

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

NOTES:

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.

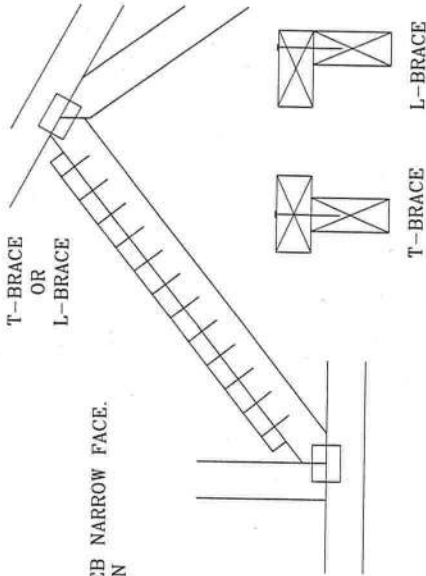
WEB MEMBER SIZE	SPECIFIED CLB BRACING	T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

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

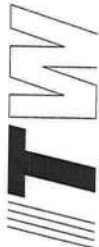
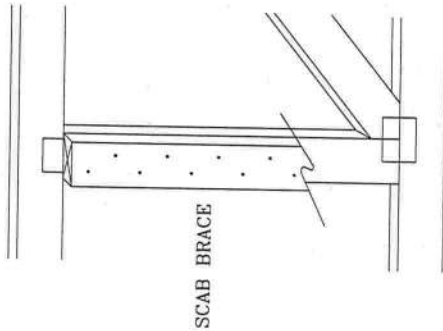
T-BRACING
OR
L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10d BOX OR GUN
(0.128" x 3", MIN) NAILS.
AT 6" O.C.
BRACE IS A
MINIMUM 80% OF WEB
MEMBER LENGTH



SCAB BRACING:

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



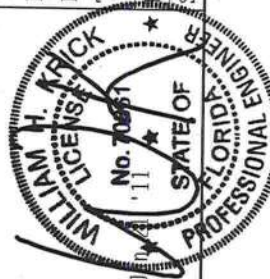
Earth City, MO 63045

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REF CLB SUBST.

DATE 1/1/09

PSF PSF PSF PSF

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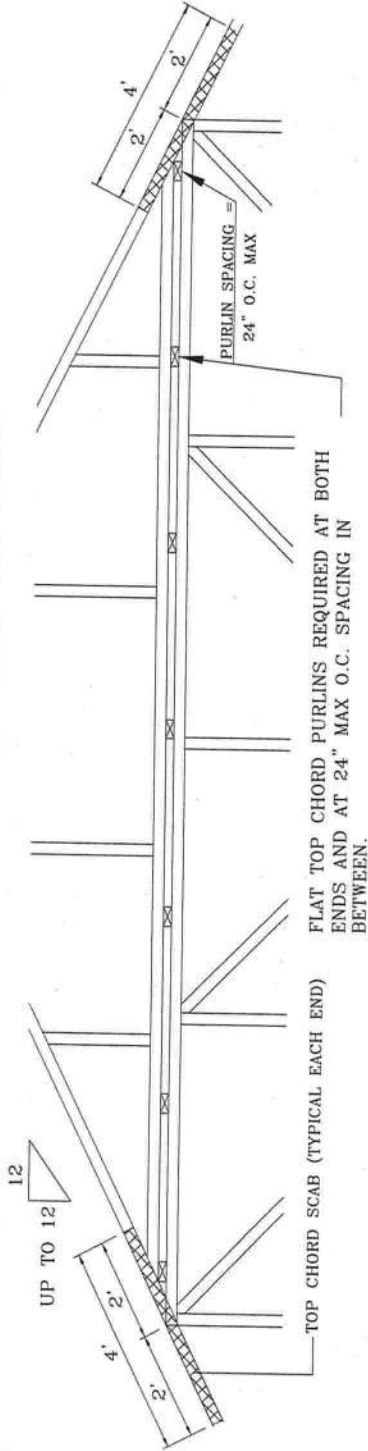
PSF PSF

120 PIGGYBACK DETAIL

UP TO 120 MPH WIND, 30.00 FT MEAN HGT., ASCE 7-02 OR ASCE 7-05, ENCLOSED BLDG. LOCATED ANYWHERE IN ROOF, CAT II, EXP C, WIND DL= 5.0 PSF (MIN), Kzt=1.0.

NOTE: TOP CHORDS OF TRUSSES SUPPORTING PIGGYBACK CAP TRUSSES MUST BE ADEQUATELY BRACED BY SHEATHING OR PURLINS. THE BUILDING ENGINEER OF RECORD SHALL PROVIDE DIAGONAL BRACING OR ANY OTHER SUITABLE ANCHORAGE TO PERMANENTLY RESTRAIN PURLINS, AND LATERAL BRACING FOR OUT OF PLANE LOADS OVER GABLE ENDS. ** REFER TO ENGINEER'S SEALED TRUSS DESIGN DRAWING FOR PIGGYBACK AND BASE TRUSS SPECIFICATIONS.

DETAIL A : PURLIN SPACING = 24" O.C. OR LESS



PIGGYBACK CAP TRUSS SLANT NAILED TO ALL TOP CHORD PURLIN BRACING WITH (2) 16d BOX NAILS (0.135"x3.5") AND SECURE TOP CHORD WITH 2x4 #3 GRADE SCAB (1 SIDE ONLY AT EACH END) ATTACHED WITH 2 ROWS OF 10d BOX NAILS (0.128"x3") AT 4" O.C.

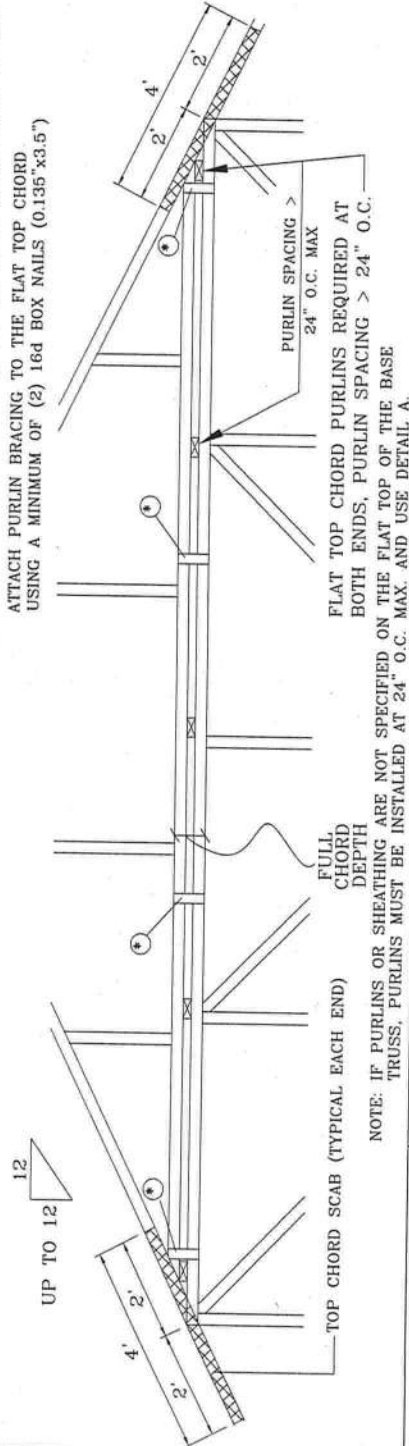
ATTACH PURLIN BRACING TO THE FLAT TOP CHORD USING (2) 16d BOX NAILS (0.135"x3.5")

THE TOP CHORD #3 GRADE 2x4 SCAB MAY BE REPLACED WITH EITHER OF THE FOLLOWING: (1) 3x8 TRUOX PLATE ATTACHED WITH (6) 0.120"x1.375" NAILS, (4) INTO CAP TC & (4) INTO BASE TRUSS TC OR (1) 28PB WAVE PIGGYBACK PLATE PLATED TO THE PIGGYBACK TRUSS TC AND ATTACHED TO THE BASE TRUSS TC WITH (4) 0.120"x1.375" NAILS. NOTE: NAILING THRU HOLES OF WAVE PLATE IS ACCEPTABLE.

DETAIL B : PURLIN SPACING > 24" O.C.

PIGGYBACK CAP TRUSS SLANT NAILED TO ALL TOP CHORD PURLIN BRACING WITH (2) 16d BOX NAILS (0.135"x3.5") AND SECURE TOP CHORD WITH 2x4 #3 GRADE SCAB (1 SIDE ONLY AT EACH END) ATTACHED WITH 2 ROWS OF 10d BOX NAILS (0.128"x3") AT 4" O.C.

ATTACH PURLIN BRACING TO THE FLAT TOP CHORD USING A MINIMUM OF (2) 16d BOX NAILS (0.135"x3.5")



FLAT TOP CHORD PURLINS REQUIRED AT BOTH ENDS, PURLIN SPACING > 24" O.C.

NOTE: IF PURLINS OR SHEATHING ARE NOT SPECIFIED ON THE FLAT TOP OF THE BASE TRUSS, PURLINS MUST BE INSTALLED AT 24" O.C. MAX. AND USE DETAIL A.

* IN ADDITION, PROVIDE CONNECTION WITH ONE OF THE FOLLOWING METHODS:

TRUOX
USE 3x8 TRUOX PLATES FOR 2x4 CHORD MEMBER, AND 3x10 TRUOX PLATES FOR 2x6 AND LARGER CHORD MEMBERS. ATTACH TO EACH FACE @ 8" O.C. WITH (4) 0.120"x1.375" NAILS INTO CAP BOTTOM CHORD AND (4) IN BASE TRUSS TOP CHORD. GUSSETS MAY BE STAGGERED 4" O.C. FRONT TO BACK FACES.

APA RATED GUSSET

8"x8"x7/16" (MIN) APA RATED SHEATHING GUSSETS (EACH FACE). ATTACH @ 8" O.C. WITH (6) 6d COMMON (0.113"x2") NAILS PER GUSSET. (4) IN CAP BOTTOM CHORD AND (4) IN BASE TRUSS TOP CHORD. GUSSETS MAY BE STAGGERED 4" O.C. FRONT TO BACK FACES.

2x4 VERTICAL SCABS

2x4 SPF#2, FULL CHORD DEPTH SCABS (EACH FACE). ATTACH @ 8" O.C. WITH (6) 10d BOX NAILS (0.128"x3") PER SCAB. (3) IN CAP BOTTOM CHORD AND (3) IN BASE TRUSS TOP CHORD. SCABS MAY BE STAGGERED 4" O.C. FRONT TO BACK FACES.

28PB WAVE PIGGYBACK PLATE

ONE 28PB WAVE PIGGYBACK PLATE TO EACH FACE @ 8" O.C. ATTACH TEETH TO PIGGYBACK AT TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120"x1.375" NAILS PER FACE PER PLY. PIGGYBACK PLATES MAY BE STAGGERED 4" O.C. FRONT TO BACK FACES.



Earth City, MO 63045

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REF PIGGYBACK
DATE 03/15/10
DRWG PB1200310



SPACING 24.0"