



### Prepared for:

# ONEAL CONSTRUCTION THE NELSON RESIDENCE COLUMBIA COUNTY, FLORIDA

Ву:

## Schafer Engineering, LLC

386-462-1340 / 352-375-6329

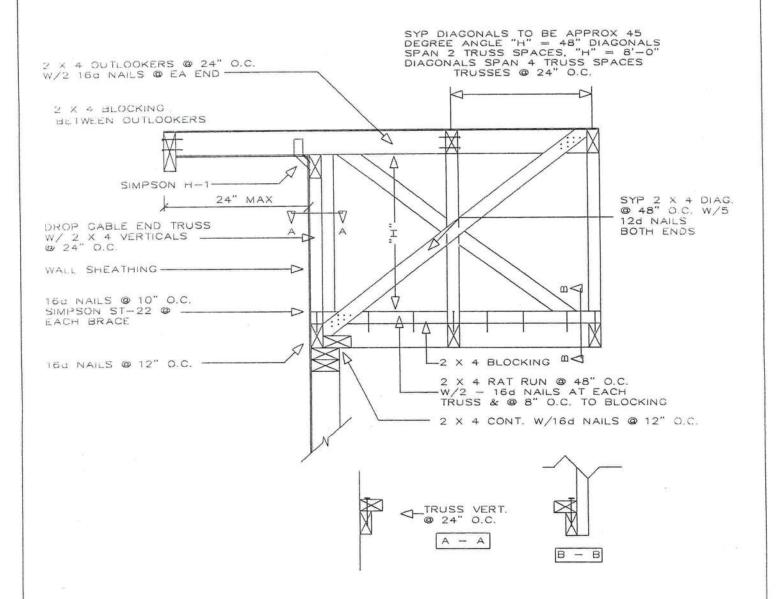
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## SCHAFER ENGINEERING, LLC 7104 NW 42ND LANE \ GAINESVILLE FL. 32606 PHONE: 386-462-1340 \ 352-375-6329

Trusses: Pre-engineered, pre-fabracated with the manufacturers required bracing system installed.	
Roof Sheathing: Type: Ax plywood Size: 1/2 Fastener type nails: 8d / .113 Ring Shank	
Interior zone spacing: Interior: $6"$ Periphery: $4$	
Edge and end zone spacing: Interior: 6" Periphery: 4	
Double Top Plate: Type: Spruce Grade: #1 #2 Size: 2 x 6 Nail Spacing: 8 in	
Stud Type: Spruce Grade: #1 #2 Size: 2 x	
Interior stud spacing: 16" End stud spacing: 16"	
Shear Wall Siding: Type: OSB Thickness: 2/16	
73 ft Trans: Fastener 8d/131 Spacing: Int: P Edge: 4	
ft Trans: Fastener 8d/131 Spacing: Int: Edge:	
Allowable Unit Shear on Shear Walls: 314 pounds per linear foot Unit Shear Transferred from Diaphragm: Trans: \$64 Long: 195	
Wall Tension Transferred by: Siding Nails: 8d/131 @ 4 O.C. Edges	
0.c. Edges	
Foundation Anchor Bolts: Concrete Strength: 3000 psi Size: 1/2"	
Washer: <u>2"</u> Embedment: <u>7"</u> Location of first anchor bolt from corner: <u>8"</u>	
Anchor Bolts @ 48" o.c. Model: A307 Loc. from corner: 8"	
Type of Foundation: (1) — #5 rebar continuous required in bond beam. Floor Slab: <u>4"</u> Cmu size: <u>8" x 16"</u> Height: <u>24"</u> Rein.: <u>#5</u> at <u>72"</u> o.c.	
Monolithic Footing: Depth: 20" Bottom Width: / Rein.: 2 #5 rebars	
Stemwall Footing: Width: 70 Depth: 10 Rein.: 2 #5 rebar	
Interior Footings 16" Wide X 10" Deep with 2-#5 rebar continuous	
Porch Columns: 6x6x 1054pt of 81 Column Fasteners: Supcon CB66/cc660ktort	
Special Comments: Intall Ceiling diaphragm on Screen porch	
Ceiling Wing same nach pattern, nach size, & sam grade	
material is Rood steathing.	
Install 2 ply 2x12 syp HR W/H 7/16 OSB PLIXEL EN All WINDOW & dock	
hisdes,	
Intall 2ply 2x12 sypth with 7/14 "50 FLK DINSCREEN porqueded.	
GARAGE GOOR header to be sized by others.	
Notes:  1. Balloon frame all gable ends unless accompanied by gable end detail  2. All trusses must bear on exterior walls and porch beams.  3. All wall and roof sheathing to be nailed with same nail pattern as the shear walls.  4. This wind load is not valid without a raised, embossed seal.  5. It is assumed that ideal soil conditions and pad preparations are provided.  6. Fiber mesh or WWM may be used in concrete slab.  7. Trusses must be installed and anchored in accordance to the truss engineering.  8. All headers spanning over 12' must be pre-engineered.  9. The foundation and walls are minimum design use, and may be increased.  10. Wind load is for one use only \ FBC-2007 \ No copies permitted.	

Bruce Schafer, P. E. #48984 7104 NW 42ND LN GAINESVILLE, FL. 32606

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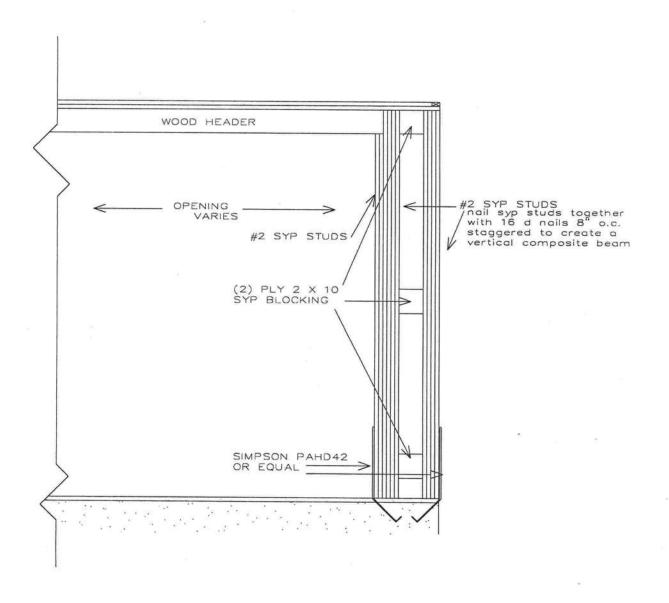
TYPICAL GABLE END BRACING

6-21-11

DETAIL MAY BE USED WITH INTERIOR CATH. CEILING BY INSTALLING A SYP 2 X 4 LEDGER IN PLANE WITH THE INTERIOR CEILING USING 2 - 160 Nails on Each Point where the LEDGER CROSSES THE GABLE END TRUSS VERTICALS

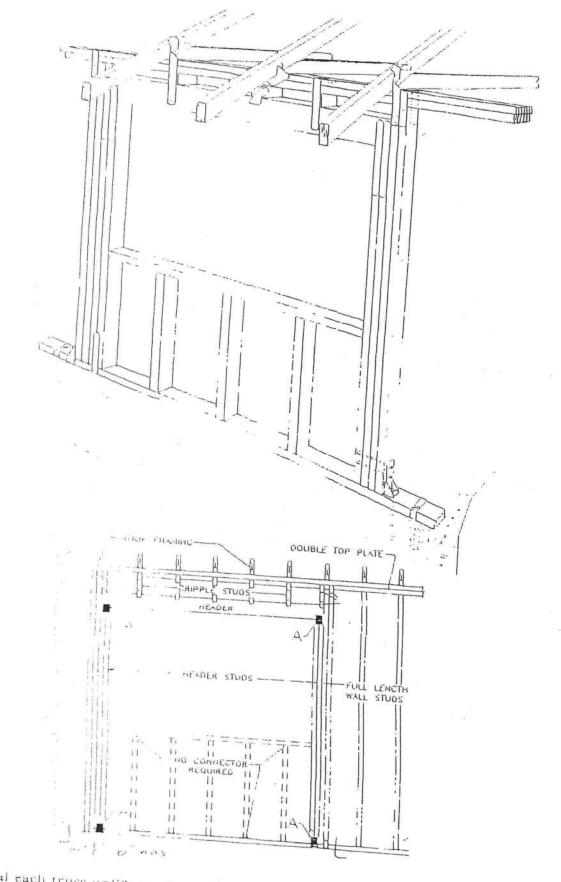
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## SCHAFER ENGINEERING, LLC 7104 NW 42ND LANE \ GAINESVILLE FL. 32606 PHONE: 386-462-1340 \ 352-375-6329



EQUIVALENT 3'-0" SHEAR WALL SEGMENT

Bruce Schafer, P. E. #48984 7104 NW 42ND LN GAINESVILLE, FL. 32606



Loral each truss uplift on the header divide by 2 for header anchorage

## SCHAFER ENGINEERING, LLC 7104 NW 42ND LANE \ GAINESVILLE FL. 32606 PHONE: 386-462-1340 \ 352-375-6329

Uplift Los	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to +55	LSTA19	635	нз	320
to 910	LSTA12	795	2-н3	640
to 1265	LSTA18	1110	LTT19	1305
to 1750	2-LSTA12	1810	LTT20	1750
10 2530	2-LSTA18	2530	HD2A-2.5	2165
to 2865	3-LSTA18	3255	HD2A-3.5	2865
3700	3-LSTA24	3880	HD5A-3	3130

Total the uplift for each truss sitting on the header and divide by 2 to determine the uplift on the header. Use proper bolt anchors sufficient to support required uplift loads.

TRUSSES	\ GIRDERS		(
Uplift Los	Top Connector	Bottom Connector	Rating Lbs
to 535	H2.5A	NA	
to 1015	H10A	NA	
to 1215	TS22	LTT19	1305
to 1750	2-TS22	LTT20	1750
10 2570	2-TS22	HD2A	2775
to 3665	3-TS22	HD5A	4010
to 5420	2-MST37	HTT22	5250
0 9660	2-MST60	HD10A	9540

Two 12d common toenials are required per truss for each bearing point into top plate.

It is the contractors responsibility to provide a continuous load path from truss to foundation.

	TOP CONNECTOR	RATING LBS	BOTTOM CONNECTOR	RATING LBS
BEAM SEATS	LSTA18	1110	LTT19	1305
POSTS	2-LSTA18	2220	ABU44	2300

- Simpson or equivient hardware may be used.
   For nailing into spruce members, multiply toble values by .86
- 2. See truss engineering for anchor uplift values.
- This schedule is not meant to be a replacement to the specified values of any manufactures values.

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#### ASCE 7-05

User Inpu	t Data	
Structure Type	Building	
Basic Wind Speed (V)	110	mph
Structural Category	- 11	
Exposure	В	
Struc Nat Frequency (n1)	1	Hz
Slope of Roof (Theta)	26.6	Deg
Type of Roof	Hipped	
Eave Height (Eht)	10.00	ft
Ridge Height (RHt)	24.67	ft
Mean Roof Height (Ht)	18.33	ft
Width Perp. to Wind (B)	72.00	ft
Width Parallel to Wind (L)	54.00	ft
Damping Ratio (beta)	0.01	

Red values should be changed	only through	"Main Menu"
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Calculated Parameter	rs
Type of Structure	
Height/Least Horizontal Dim	0.34
Flexible Structure	No

Calculated	Parameters	
Importance Factor	1	
Hurricane Prone I	Region (V>100 m	ph)
Table Co	6-4 Values	
Alpha =	7.000	
zg =	1200.000	
At = Bt =	0.143	
Bt = Am =	0.840	
Bt =	0.840 0.250	
Bt = Am = Bm =	0.840 0.250 0.450	ft
Bt = Am = Bm =	0.840 0.250 0.450 0.300	ft

	Gust Factor Category I: Rigid Structures - Simplified Meth	nod	
Gust1	For rigid structures (Nat Freq > 1 Hz) use 0.85	0.85	
	Gust Factor Category II: Rigid Structures - Complete Analy	ysis	
Zm	Zmin	30.00	ft
lzm	Cc * (33/z)^0.167	0.3048	
Lzm	I*(zm/33)^Epsilon	309.99	ft
Q	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	0.8806	
Gust2	0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))	0.8545	
	Gust Factor Category III: Flexible or Dynamically Sensitive Str	uctures	
Vhref	V*(5280/3600)	161.33	ft/s
Vzm	bm*(zm/33)^Am*Vhref	70.89	ft/s
NF1	NatFreq*Lzm/Vzm	4.37	Hz
Rn	(7.47*NF1)/(1+10.302*NF1)^1.667	0.0552	
Nh	4.6*NatFreq*Ht/Vzm	1.19	
Nb	4.6*NatFreq*B/Vzm	4.67	
Nd	15.4*NatFreq*Depth/Vzm	11.73	
Rh	1/Nh-(1/(2*Nh^2)*(1-Exp(-2*Nh)))	0.5201	
Rb	1/Nb-(1/(2*Nb^2)*(1-Exp(-2*Nb)))	0.1911	
Rd	1/Nd-(1/(2*Nd^2)*(1-Exp(-2*Nd)))	0.0816	
RR	((1/Beta)*Rn*Rh*Rb*(0.53+0.47*Rd))^0.5	0.5583	
gg	+(2*LN(3600*n1))^0.5+0.577/(2*LN(3600*n1))^0.5	4.19	
Gust3	0.925*((1+1.7*lzm*(3.4^2*Q^2+GG^2*RR^2)^0.5)/(1+1.7*3.4*lzm))	0.99	

	Gust	Factor Summary	
Main Wind-force re	sisting system:	Components and Claddin	g:
Gust Factor Category:	1	Gust Factor Category:	1
Gust Factor (G)	0.85	Gust Factor (G)	0.85

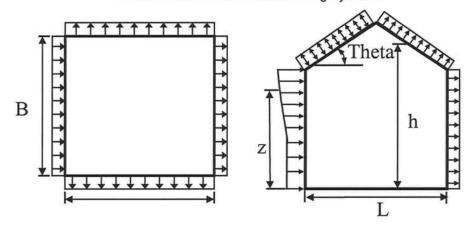
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			Y.		

ASCE 7-05
6.5.12.2.1 Design Wind Pressure - Buildings of All Heights (Non-flexible)

Elev.	Kz	Kzt	Kd	qz	Pressure (lb/ft^2	
					Windwa	rd Wall*
ft			1.00	lb/ft^2	+GCpi	-GCpi
24.67	0.70	1.00	1.00	21.70	11.44	18.23
20	0.70	1.00	1.00	21.70	11.44	18.23
18.33	0.70	1.00	1.00	21.70	11.44	18.23
15	0.70	1.00	1.00	21.70	11.44	18.23

Figure 6-3 - External Pressure Coefficients, Cp

Loads on Main Wind-Force Resisting Systems



Variable	Formula	Value	Units
Kh	2.01*(Ht/zg)^(2/Alpha)	0.61	
Kht	Topographic factor (Fig 6-2)	1.00	
Qh	.00256*(V)^2*ImpFac*Kh*Kht*Kd	18.85	psf

Wall Pressure Coefficients, Cp				
Surface	Ср			
Windward Wall (See Figure 6.5.12.2.1 for Pressures)	0.80			

Roof Pressure Coefficients, Cp				
Roof Area (sq. ft.)	-			
Reduction Factor	1.00			

Description	Ср	Pressure	(psf)
		+GCpi	-GCpi
Leeward Walls (Wind Dir Parallel to 72 ft wall)	-0.50	-11.45	-4.66
Leeward Walls (Wind Dir Parallel to 54 ft wall)	-0.43	-10.37	-3.59
Side Walls	-0.70	-14.67	-7.88
Roof - Normal to Ridge (	(Theta>=10)		
Windward - Max Negative	-0.22	-7.01	-0.22
Windward - Max Positive	0.26	0.86	7.65
Leeward Normal to Ridge	-0.60	-13.06	-6.27
Overhang Top	-0.22	-3.61	-3.61
Overhang Bottom	0.80	0.68	0.68
Roof - Parallel to Ridge	(All Theta)		
Dist from Windward Edge: 0 ft to 9.165 ft	-0.90	-17.89	-11.11

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#### ASCE 7-05

Dist from Windward Edge: 9.165 ft to 18.33 ft	-0.90	-17.89	-11.11
Dist from Windward Edge: 18.33 ft to 36.66 ft	-0.50	-11.45	-4.66
Dist from Windward Edge: > 36.66 ft	-0.30	-8.23	-1.44

<sup>\*</sup> Horizontal distance from windward edge

#### Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.61
Kht =	Topographic factor (Fig 6-2)	=	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	18.85

			Case	4		
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	0.55	0.18	-0.18	21.70	8.03	15.84
2	-0.10	0.18	-0.18	21.70	-5.99	1.82
3	-0.45	0.18	-0.18	21.70	-13.61	-5.79
4	-0.39	0.18	-0.18	21.70	-12.38	-4.57
5	0.00	0.18	-0.18	21.70	-3.91	3.91
6	0.00	0.18	-0.18	21.70	-3.91	3.91
1E	0.73	0.18	-0.18	21.70	11.88	19.69
2E	-0.19	0.18	-0.18	21.70	-7.93	-0.12
3E	-0.58	0.18	-0.18	21.70	-16.59	-8.78
4E	-0.53	0.18	-0.18	21.70	-15.50	-7.69
5E	0.00	0.18	-0.18	21.70	-3.91	3.91
6E	0.00	0.18	-0.18	21.70	-3.91	3.91

<sup>\*</sup> p = qh \* (GCpf - GCpi)

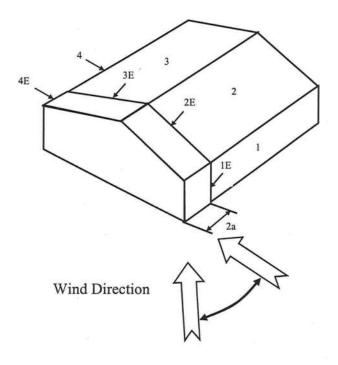


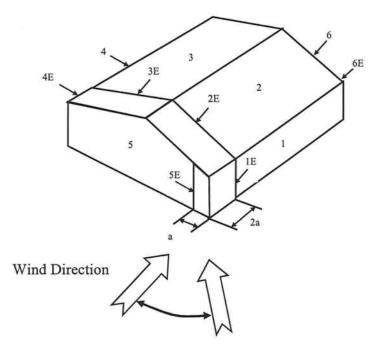
Figure 6-4 - External Pressure Coefficients, GCpf

Loads on Main Wind-Force Resisting Systems w/ Ht <= 60 ft

Kh =	2.01*(Ht/zg)^(2/Alpha)	=	0.61
Kht =	Topographic factor (Fig 6-2)	= .	1.00
Qh =	0.00256*(V)^2*ImpFac*Kh*Kht*Kd	=	18.85

			Case	В		
Surface	GCpf	+GCpi	-GCpi	qh (psf)	Min P (psf)	Max P (psf)
1	-0.45	0.18	-0.18	21.70	-13.67	-5.86
2	-0.69	0.18	-0.18	21.70	-18.88	-11.07
3	-0.37	0.18	-0.18	21.70	-11.94	-4.12
4	-0.45	0.18	-0.18	21.70	-13.67	-5.86
5	0.40	0.18	-0.18	21.70	4.77	12.59
6	-0.29	0.18	-0.18	21.70	-10.20	-2.39
1E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
2E	-1.07	0.18	-0.18	21.70	-27.13	-19.31
3E	-0.53	0.18	-0.18	21.70	-15.41	-7.60
4E	-0.48	0.18	-0.18	21.70	-14.32	-6.51
5E	0.61	0.18	-0.18	21.70	9.33	17.14
6E	-0.43	0.18	-0.18	21.70	-13.24	-5.43

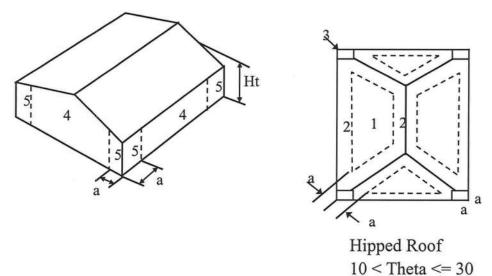
<sup>\*</sup> p = qh \* (GCpf - GCpi)



#### ASCE 7-05

#### Figure 6-5 - External Pressure Coefficients, GCp

Loads on Components and Cladding for Buildings w/ Ht <= 60 ft



a = 5.4 ==> 5.40 ft

Component	Width	Length	Area Zone		G	GCp		Wind Press (lb/ft^2)	
	(ft)	(ft)	(ft^2)		Max	Min	Max	Min	
	16	7	112.00	5	0.81	-1.03	18.75	-22.80	
	0	0	0.00						
	0	0	0.00						
	0	0	0.00						
	0	0	0.00						
	0	0	0.00						
	0	0	0.00						
	0	0	0.00						
	0	0	0.00						
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	0	0	0.00						
	0	0	0.00						
	0	0	0.00						
	0	0	0.00						
	0	0	0.00						
	0	0	0.00						

Note: \* Enter Zone 1 through 5, or 1H through 3H for overhangs.

Table 6-7 Internal Pressure Coefficients for Buildings, Gcpi

ASCE 7-05

Condition	Gcpi		
	Max +	Max -	
Open Buildings	0.00	0.00	
Partially Enclosed Buildings	0.55	-0.55	
Enclosed Buildings	0.18	-0.18	
Enclosed Buildings	0.18	-0.18	

#### Table 6-8 External Pressure Coefficients for Arched Roofs, Cp

r (Rise-to-Span Ratio) = 0.3

		Ср			
Condition	Variable	Windward Quarter	Center Half	Leeward Quarter	
Roof on Elevated Structure	Ср	0.13	-1	-0.5	
	P (+GCpi) - psf	-1.38	-19.50	-11.45	
F)	P (-GCpi) -psf	5.41	-12.72	-4.66	
Roof Springing from Ground	Ср	0.42	-1	-0.5	
10	P (+GCpi) - psf	3.37	-19.50	-11.45	
	P (-GCpi) -psf	3.37	-19.50	-11.45	

#### Table 6-9 Force Coefficients for Monoslope Roofs over Open Buildings, Cf

Variable	Description	Value	
L	Roof dimension normal to wind direction	54.00	ft
В	B Roof dimension parallel to wind direction		ft
L/B	Ratio of L to B	0.750	
Theta	Slope of Roof	26.6	Deg
Cf	Force Coefficient	1.17	
X	Distance to center of pressure from windward edge	0.42	ft

#### **Julius Lee**

RE: 361993 - O'NEIL CONST. - NELSON RES.

109 Coastal Bay Blvd. Boynton Beach, FL 33435

Site Information:

Project Customer: O'NEIL CONST. Project Name: 361993 Model: NELSON RES.

Lot/Block:

Subdivision:

Address: 1136 MARYNIK DR.

City: ALACHUA CTY

State: FI

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: O'NEIL CONST.

License #: QB0010656

Address: 110 NE 1ST AVE

City: HIGH SPRINGS,

State: FL

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2007/TPI2002

Design Program: MiTek 20/20 7.1

Wind Code: ASCE 7-05 Wind Speed: 110 mph

Floor Load: N/A psf

Roof Load: 32.0 psf

17 | 14799436 | T08

This package includes 32 individual, dated Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules. This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

In the event of changes from Builder or E.O.R. additional coversheets and drawings may accompany this coversheet. The latest approval dates supersede and replace the previous drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	14799420	EJ7	6/24/011	18	14799437	T08G	6/24/011
2	14799421	EJ7A	6/24/011	19	14799438	T09	6/24/011
3	14799422	PB01	6/24/011	20	14799439	T09G	6/24/011
4	14799423	PB02	6/24/011	21	14799440	T10	6/24/011
5	14799424	PB02G	6/24/011	22	14799441	T11	6/24/011
6	14799425	T01	6/24/011	23	14799442	T17	6/24/011
7	14799426	T01G	6/24/011	24	14799443	T18	6/24/011
8	14799427	T02	6/24/011	25	14799444	T19	6/24/011
9	14799428	T03	6/24/011	26	14799445	T20	6/24/011
10	14799429	T04	6/24/011	27	14799446	T21	6/24/011
11	14799430	T05	6/24/011	28	14799447	T22	6/24/011
12	14799431	T05G	6/24/011	29	14799448	T23	6/24/011
13	14799432	T06	6/24/011	30	14799449	T24	6/24/011
14	14799433	T06A	6/24/011	31	14799450	T25	6/24/011
15	14799434	T07	6/24/011	32	14799451	T26	6/24/011
16	14799435	T07G	6/24/011			1.77	0/24/011

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Lake City).

6/24/011

Truss Design Engineer's Name: Julius Lee

My license renewal date for the state of Florida is February 28, 2013.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.

//////June 24,2011

1 of 1

Julius Lee

Job Truss Truss Type Qty O'NEIL CONST. - NELSON RES. 14799420 361993 EJ7 MONO TRUSS 12 Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:08 2011 Page 1 Builders FrstSource, Lake City, FL 32055 7-0-0 7-0-0 Scale = 1:35.7 10.00 12 3x5 / 0-4-13 B1 2x4 = 5 6 2x4 || 3x4 = Plate Offsets (X,Y): [1:0-2-1,0-1-0] LOADING (psf) SPACING CSI DEFL 2-0-0 **PLATES** GRIP (loc) L/d TCLL 20.0 Plates Increase 1.25 TC 0.29 Vert(LL) -0.01 5-6 >999 360 MT20 244/190 TCDL 7.0 Lumber Increase 1.25 BC 0.12 Vert(TL) -0.03 5-6 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.07 -0.00 Horz(TL) 3 n/a n/a BCDL 5.0 Code FBC2007/TPI2002 (Matrix) Wind(LL) 0.00 5-6 >999 240 Weight: 34 lb LUMBER BRACING TOP CHORD 2 X 4 SYP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2 X 4 SYP No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. 2 X 4 SYP No.3 WEBS MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide REACTIONS (lb/size) 3=103/Mechanical, 4=14/Mechanical, 6=327/0-5-8 Max Horz 6=236(LC 6) Max Uplift 3=-115(LC 6), 4=-63(LC 6), 6=-73(LC 6) Max Grav 3=103(LC 1), 4=53(LC 2), 6=327(LC 1) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-5=-53/271, 2-6=-281/169 NOTES (8-9)1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed :C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 4) All bearings are assumed to be SYP No.2. 5) Refer to girder(s) for truss to truss connections. and 73 lb uplift at joint 6.

7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

9) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 STATE OF June 24,2011

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component.

Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult. ANS/TIQuality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Qty O'NEIL CONST. - NELSON RES Truss Type Job Truss 14799421 10 MONO TRUSS 361993 F.17A Job Reference (optional) 40 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:08 2011 Page 1 Builders FrstSource, Lake City, FL 32055 2-2-12 2-2-12 4-11-8 7-0-0 2-0-8 Scale = 1:35.7 2x6 || 10.00 12 5-2-13 3x5 / 3×5 0-4-13 **B**1 2x4 = 82x4 | 3x4 2-8-12 Plate Offsets (X,Y): [1:0-2-1,0-1-0] **PLATES** GRIP LOADING (psf) SPACING CSI DEFL l/defl L/d 2-0-0 in (loc) 244/190 Vert(LL) -0.02 >999 360 MT20 TC 6 TCLL 20.0 Plates Increase 1.25 0.24 -0.03 >999 240 Lumber Increase BC 0.35 Vert(TL) 6 TCDL 7.0 1 25 -0.06 n/a n/a WB 0.05 Horz(TL) BCLL 0.0 Rep Stress Incr YES 0.08 6 >696 240 Weight: 37 lb Code FBC2007/TPI2002 Wind(LL) (Matrix) BCDI 50 BRACING LUMBER Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing, Except: TOP CHORD TOP CHORD 2 X 4 SYP No.2 2 X 4 SYP No.2 \*Except\* **BOT CHORD** BOT CHORD B2: 2 X 4 SYP No.3 10-0-0 oc bracing: 5-6. WEBS 2 X 4 SYP No.3 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS (lb/size) 4=77/Mechanical, 5=40/Mechanical, 8=327/0-5-8 Max Horz 8=236(LC 6) Max Uplift4=-118(LC 6), 5=-59(LC 6), 8=-73(LC 6) Max Grav 4=77(LC 1), 5=48(LC 2), 8=327(LC 1) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-288/138 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. () "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

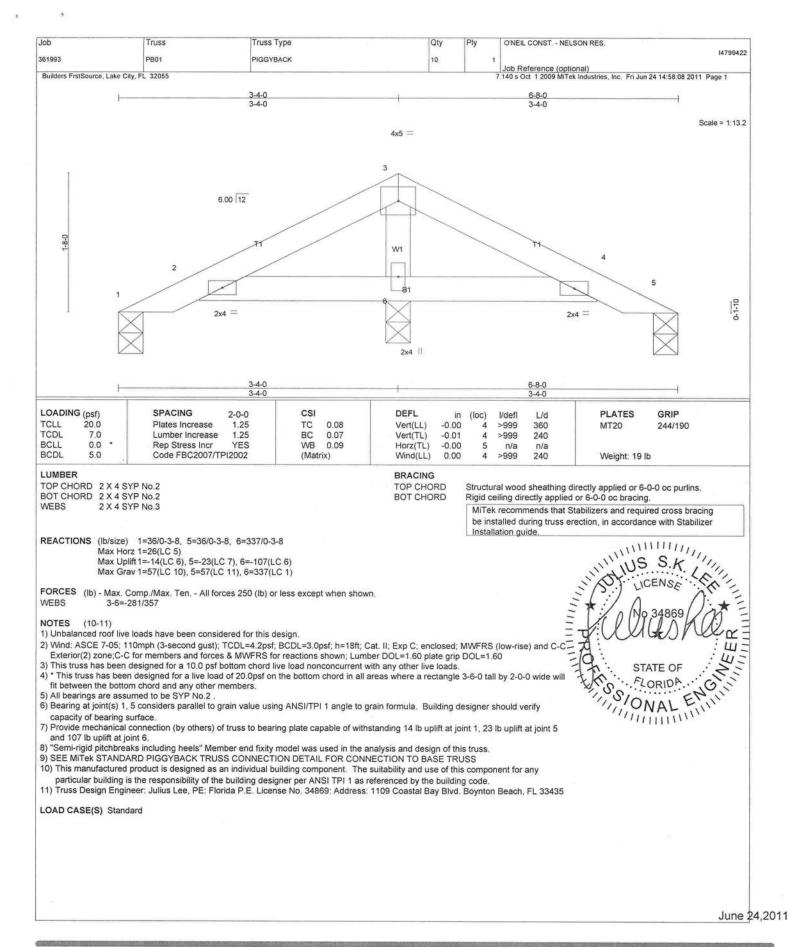
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

9) Truss Design Engineer: Julius Lee, PE; Florida P.E. License No. 34869; Address: 1109 Coastal Page 21. 4) All bearings are assumed to be SYP No.2 1111111 LOAD CASE(S) Standard Ш STATE OF FLORIDA ONAL THUMAN. June 24,2011

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MII-7473 BEFORE USE.

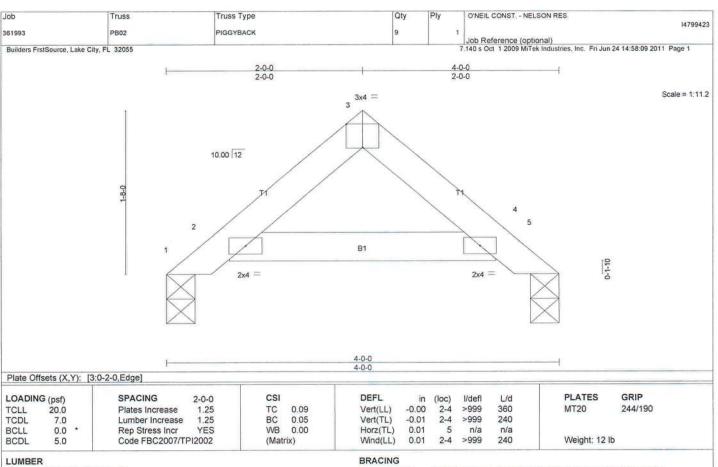
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TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 4-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=120/0-3-8, 5=120/0-3-8

Max Horz 1=54(LC 5)

Max Uplift 1=-36(LC 6), 5=-36(LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) All bearings are assumed to be SYP No.2.

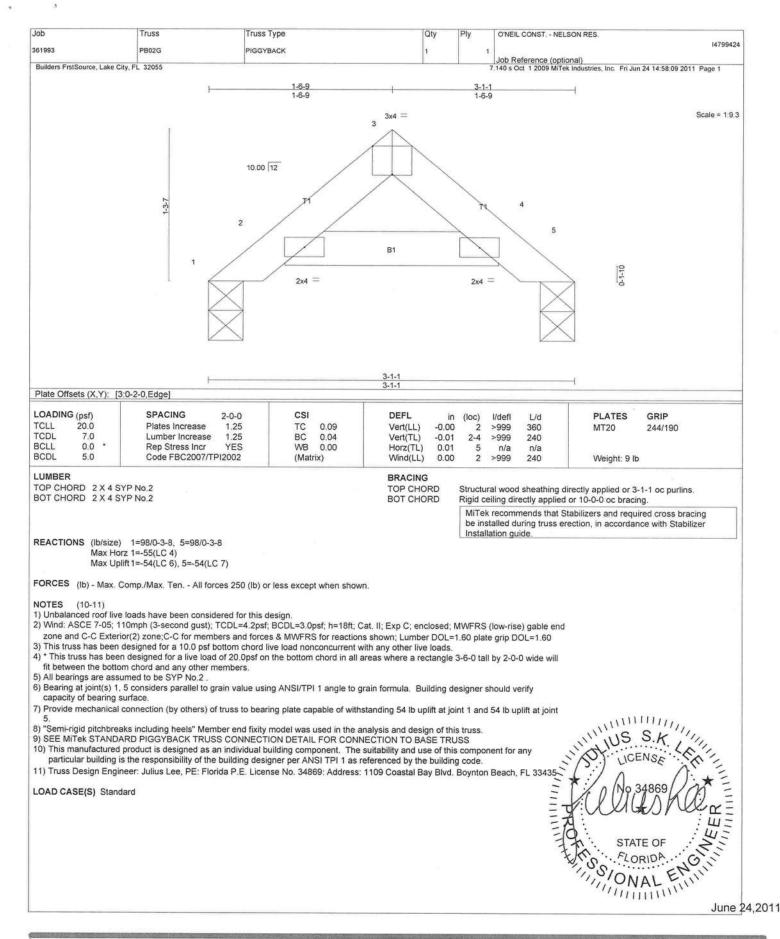
- 6) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1 and 36 lb uplift at joint

particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard 11111111 STATE OF ONAL

June 24,2011



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED BITTEK REFERENCE PAGE MII-7473 REFORE USE.

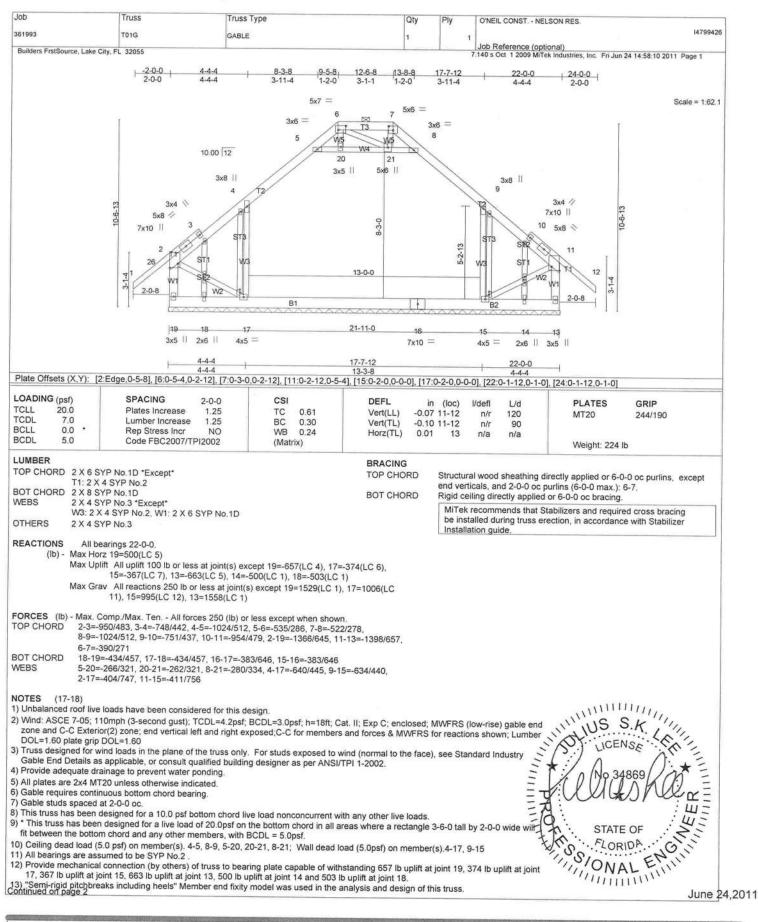
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O'NEIL CONST. - NELSON RES. Qty Truss Type Job Truss 14799425 T01 ATTIC 361993 Reference (optional) s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:10 2011 Page 1 Builders FrstSource, Lake City, FL 32055 24-0-0 7-10-0 9-0-0 2-0-0 14-2-0 2-0-0 3-5-12 4-0-0 3-5-12 4-4-4 Scale = 1:60.7 5x7 = 5x6 = 6 3x6 T2 3x6 = 17 16 10.00 12 11 5x6 || 3x5 3x8 || 3x8 || 8-3-0 5x8 5x8 / 5-7-6 9 10 13-0-0 2-0-8 **B1** B<sub>2</sub> 13 21-11-0 14 11 3x5 3x5 II 7×10 = 8x9 = 8x9 = 22-0-0 Plate Offsets (X,Y): [5:0-5-4,0-2-12], [6:0-3-0,0-2-12], [12:0-3-8,0-4-0], [14:0-3-8,0-4-0] PLATES GRIP SPACING CSI DEFL LOADING (psf) (loc) L/d 2-0-0 244/190 TC 0.66 Vert(LL) -0.33 12-14 >771 360 MT20 TCLL Plates Increase 1.25 BC 0.41 Vert(TL) -0.54 12-14 >480 240 TCDL 7.0 Lumber Increase 1.25 Rep Stress Incr YES WB 0.35 Horz(TL) 0.01 11 n/a n/a BCLL 0.0 Weight: 204 lb Code FBC2007/TPI2002 (Matrix) Wind(LL) 0.10 12-14 >999 240 BCDL 5.0 LUMBER BRACING TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins, except TOP CHORD 2 X 6 SYP No.1D BOT CHORD 2 X 8 SYP 2400F 2.0E end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-6. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2 X 4 SYP No.3 \*Except\* WEBS 1 Row at midpt 4-7 W3: 2 X 4 SYP No.2, W1: 2 X 6 SYP No.1D WEBS MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide REACTIONS (lb/size) 15=1601/0-3-8, 11=1601/0-3-8 Max Horz 15=388(LC 5) Max Uplift 15=-134(LC 6), 11=-134(LC 7) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 2-3=-1472/264, 3-4=-1005/400, 4-5=0/314, 6-7=0/346, 7-8=-1005/401, 8-9=-1471/263, 2-15=-1874/388, 9-11=-1873/387, 5-6=0/524 14-15=-370/426, 13-14=-50/954, 12-13=-50/954 BOT CHORD 4-16=-1297/362, 16-17=-1288/363, 7-17=-1337/377, 3-14=0/656, 8-12=0/654, WEBS 2-14=-105/1083, 9-12=-108/1084 NOTES (13-14)will strong to the second seco 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 6) Ceiling dead load (5.0 psf) on member(s), 3-4, 7-8, 4-16, 16-17, 7-17; Wall dead load (5.0psf) on member(s).3-14, 8-12 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14 8) All bearings are assumed to be SYP No.2. 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 15 and 134 lb uplift at ROK Ш 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. Ш 11) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails NIS STATE OF 12) Attic room checked for L/360 deflection. FLORIDA 13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 ONAL LOAD CASE(S) Standard June 24,2011

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE SIII-7473 BEFORE USE.

Design valid for use only with MiTek connectors, This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding abhication, quality control, storage, delivery, erection and bracing, consult. ANS/IPII Quality Criteria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



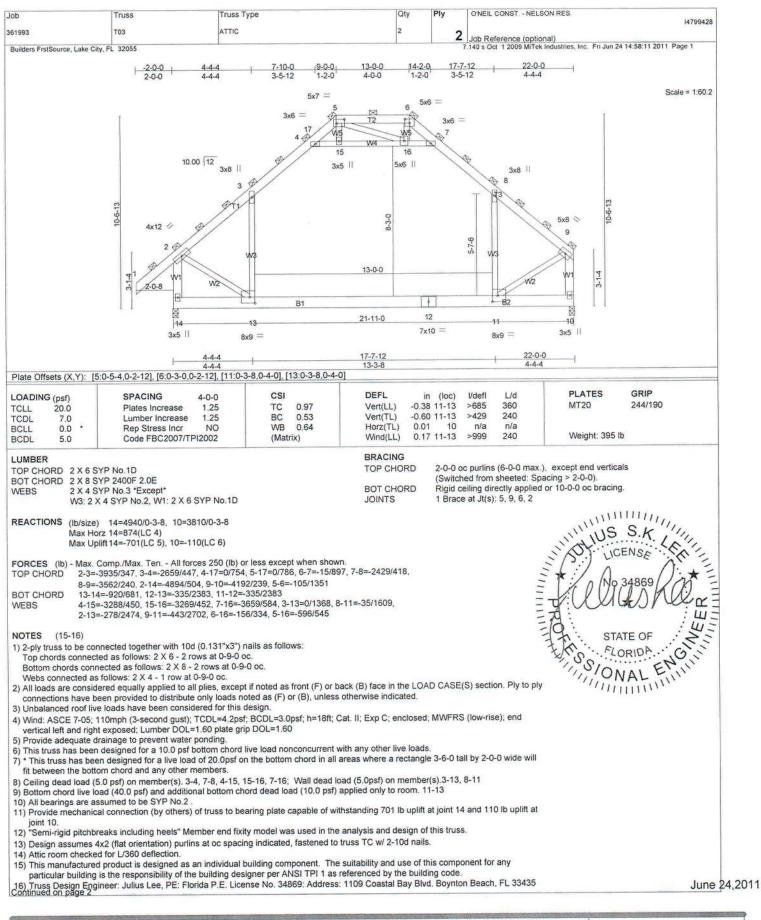
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	Truss	Truss Type	Qty	Ply	O'NEIL CONST NELSON RES.	1479942
993	TOIG	GABLE	1	1	Job Reference (optional)	
lers FrstSource, Lake City, I TES (17-18) Design assumes 4x2	(flat orientation) purlins at	oc spacing indicated, fastened to truss	TC w/ 2-10d nails.	7	Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Fri J	un 24 14:58:10 2011 Page 2
Attic room checked fo In the LOAD CASE(S This manufactured pr	or L/360 deflection.  ) section, loads applied to oduct is designed as an in	the face of the truss are noted as front dividual building component. The suita	(F) or back (B). bility and use of thi			esponsibility of the
Iniform Loads (plf) Vert: 17-19=-1	ase=1.25, Plate Increase=	1-26=-54, 2-26=-114(F=-60), 2-4=-114(	F=-60), 4-5=-124(F	F=-60), 5-6	6=-114(F=-60), 7-8=-114(F=-60), 8-9	=-124(F=-60),
Drag: 4-17=-1						

Job Truss Truss Type Qty O'NEIL CONST. - NELSON RES. 361993 TOO ATTIC lob Reference (optional) 40 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:11 2011 Page 1 Builders FrstSource, Lake City, FL 32055 2-0-0 13-0-0 14-2-0 17-7-12 22-0-0 3-5-12 1-2-0 4-0-0 1-2-0 3-5-12 4-4-4 5x7 = Scale = 1:60.7 5x6 = T2 3x6 15 16 10.00 12 3x5 || 5x6 || 3x8 [] 3x8 || 3 10-6-13 8-3-0 5x8 🔌 5x8 / q 5-7-6 13-0-0 3-1-4 3-1-4 2-0-8 B1 12 13 21-11-0 10 3x5 7x10 = 8x9 = 8x9 = 17-7-12 22-0-0 Plate Offsets (X,Y): [5:0-5-4,0-2-12], [6:0-3-0,0-2-12], [8:0-4-0,0-1-3], [11:0-3-8,0-4-0], [13:0-3-8,0-4-0] LOADING (psf) SPACING 2-0-0 CSI DEFL PLATES in (loc) GRIP I/defl L/d TCLL 20.0 Plates Increase 1.25 TC 0.67 Vert(LL) -0.34 11-13 >762 360 MT20 244/190 TCDL 7.0 Lumber Increase 1 25 BC. 0.41 Vert(TL) -0.54 11-13 >474 240 BCLL 0.0 Rep Stress Incr YES WB 0.35 Horz(TL) 0.01 10 n/a n/a BCDL Code FBC2007/TPI2002 (Matrix) Wind(LL) 0.10 11-13 >999 240 Weight: 198 lb LUMBER BRACING TOP CHORD 2 X 6 SYP No.1D TOP CHORD Structural wood sheathing directly applied or 5-8-9 oc purlins, except BOT CHORD 2 X 8 SYP 2400F 2.0E end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-6. Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2 X 4 SYP No.3 \*Except\* BOT CHORD W3: 2 X 4 SYP No.2, W1: 2 X 6 SYP No.1D WEBS 1 Row at midpt 4-7 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS (lb/size) 14=1608/0-3-8, 10=1472/0-3-8 Max Horz 14=437(LC 5) Max Uplift 14=-133(LC 6), 10=-12(LC 7) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1486/258, 3-4=-1012/395, 4-5=0/318, 6-7=0/351, 7-8=-1013/399, 8-9=-1463/221, 2-14=-1891/382, 9-10=-1730/213, 5-6=0/531 BOT CHORD 13-14=-419/382, 12-13=-96/963, 11-12=-96/963 WEBS 4-15=-1322/355, 15-16=-1313/356, 7-16=-1364/381, 3-13=0/660, 8-11=0/636, 2-13=-102/1096, 9-11=-126/1091 NOTES (13-14)1) Unbalanced roof live loads have been considered for this design. will will US S.K 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 3) Provide adequate drainage to prevent water ponding.4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 6) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-15, 15-16, 7-16; Wall dead load (5.0 psf) on member(s).3-13, 8-11 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13 8) All bearings are assumed to be SYP No.2 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 14 and 12 lb uplift at joint 10 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 8 Ш 11) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails. SIA 12) Attic room checked for L/360 deflection. STATE OF 13) This manufactured product is designed as an individual building component. The suitability and use of this component for any FLORIDA particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. INO ONAL 14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 LOAD CASE(S) Standard June 24,2011

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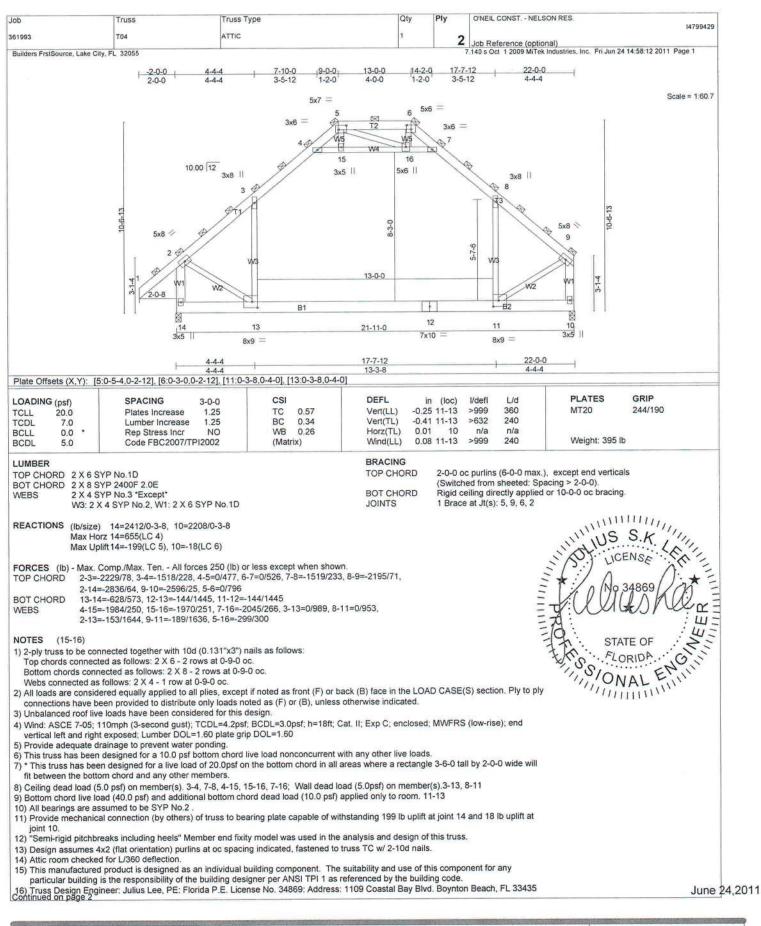
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Sales I	Truss To3	Truss Type ATTIC	Qty	Ply	O'NEIL CONST NELSON RES.	1479942
		ATTIC	2	2	Job Reference (optional)	
Uniform Loads (plf) Vert: 13-14=-18( Drag: 3-13=-20, Trapezoidal Loads (plf)	se=1.25, Plate Increase=1 0(F=-160), 11-13=-220, 10 8-11=-20	.25 D-11=-180(F=-160), 1-2=-108, 5-17=-108, 6 3=-292(F=-164)-to-4=-258(F=-130), 4=-238		128, 8-9=		24 14:58:11 2011 Page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WITEK REFERENCE PAGE MIL-7473 BEFORE USE.

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Job	Truss	Truss Type	Qty Ply	O'NEIL CONST NELSON RES.	
361993	T04	ATTIC	50	POSTOROGO DE LA COMPANDA DEL COMPANDA DE LA COMPANDA DEL COMPANDA DE LA COMPANDA	14799429
Builders FrstSource, Lake City, F	L 32055		7	Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24	14:58:12 2011 Page 2
LOAD CASE(S) Standard	ř.				
LOAD CASE(S) Standard	l.				
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					. 1

Qty O'NEIL CONST. - NELSON RES Truss Type Job Truss 14799430 ATTIC T05 361993 lob Reference (optional) 40 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:12 2011 Page 1 Builders FrstSource, Lake City, FL 32055 24-0-0 17-7-12 3-5-12 22-0-0 11-0-0 7-10-0 2-0-0 3-2-0 3-5-12 3-2-0 Scale = 1:66.7 5x6 6 3x6 = 3x6 = 17 3x8 || 3x8 || 3x5 5x6 4 5x6 -3-0 9 0.00 12 4x10 W1 4-7-6 10 13-0-0 + B1 14 21-11-0 13 116 7×10 = 3x5 3x5 11 8x9 = 8x9 = 22-0-0 Plate Offsets (X,Y): [13:0-3-8,0-4-0], [15:0-3-8,0-4-0] PLATES GRIP DEFL CSI in (loc) I/defl 1 /d LOADING (psf) SPACING 2-0-0 244/190 MT20 360 TC Vert(LL) -0.40 13-15 >651 Plates Increase 1.25 0.76 TCLL 20.0 240 >402 BC 0.43 Vert(TL) -0.64 13-15 Lumber Increase 1.25 TCDL 7.0 n/a 0.01 12 n/a YES WB 0.32 Horz(TL) 0.0 Rep Stress Incr BCLL 0.11 13-15 240 Weight: 193 lb >999 Wind(LL) Code FBC2007/TPI2002 (Matrix) BCDL 5.0 BRACING LUMBER TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except TOP CHORD 2 X 6 SYP No.1D end verticals. 2 X 8 SYP 2400F 2.0E **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **BOT CHORD** 2 X 4 SYP No.3 "Except" W3: 2 X 4 SYP No.2, W1: 2 X 6 SYP No.1D WEBS 1 Row at midpt 5-7 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide REACTIONS (lb/size) 16=1591/0-3-8, 12=1591/0-3-8 Max Horz 16=395(LC 5) Max Uplift 16=-158(LC 6), 12=-158(LC 7) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1677/195, 3-4=-1550/212, 4-5=-1092/371, 7-8=-1092/371, 8-9=-1550/212, TOP CHORD 9-10=-1677/195, 2-16=-1841/386, 10-12=-1841/386 15-16=-391/490, 14-15=0/1067, 13-14=0/1067 BOT CHORD 5-17=-1261/388, 7-17=-1261/388, 4-15=-11/840, 8-13=-10/840, 2-15=-92/991, WEBS 10-13=-99/991 NOTES (11-12)will will US S.L. 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone, end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 5) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-17, 7-17; Wall dead load (5.0 psf) on member(s).4-15, 8-13 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room, 13-15 7) All bearings are assumed to be SYP No.2. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 16 and 158 lb uplift at joint 12. 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 10) Attic room checked for L/360 deflection. Ш 0 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any NO STATE OF particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 FLORIDA ONAL LOAD CASE(S) Standard 11111111111111 June 24,2011

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MILTAT3 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. 
Applicability of design parameters and proper incorporation of component is responsibility of building designer - not fuss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer, for general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult. AMSI/TPI Quality Criteria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job Truss Truss Type Qty O'NEIL CONST. - NELSON RES. 14799431 361993 T05G GARLE ob Reference (optional) 40 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:13 2011 Page 1 Builders FrstSource, Lake City, FL 32055 2-0-0 11-0-0 13-8-8 24-0-0 17-7-12 22-0-0 4-4-4 3-11-4 2-8-8 2-8-8 3-11-4 4-4-4 2-0-0 5x6 = Scale = 1:67.2 6 346 = 3x6 = 5 10.00 12 25 3x5 || 3v8 11 3x8 || 10-10-4 4x5 4x5 / 7-3-0 5x8 V 5x8 97x10 || 7x10 || 13-0-0 B1 2-0-8 2-0-8 21-11-0 3x5 || 2x6 || 4x5 = 7x10 = 2x6 || 4x5 = 3x5 || 4-4-4 17-7-12 22-0-0 Plate Offsets (X,Y): [2:0-2-12,0-5-4], [10:0-2-12,0-5-4], [13:0-3-0,0-0-12], [14:0-2-0,0-0-0], [16:0-2-0,0-0-0], [17:0-3-0,0-2-12], [20:0-1-8,0-1-0], [23:0-1-8,0-1-0] LOADING (psf) SPACING 2-0-0 CSI DEFL **PLATES** in (loc) I/defi L/d GRIP TCLL 20.0 Plates Increase 1.25 TC 0.61 Vert(LL) -0.07 10-11 120 n/r MT20 244/190 TCDL 7.0 Lumber Increase 1.25 BC 0.30 Vert(TL) -0.10 10-11 90 n/r BCII 00 Rep Stress Incr WB 0.21 Horz(TL) 0.01 12 n/a n/a BCDL 5.0 Code FBC2007/TPI2002 (Matrix) Weight: 208 lb LUMBER BRACING TOP CHORD 2 X 6 SYP No.1D \*Except\* TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except T1: 2 X 4 SYP No.2 end verticals **BOT CHORD** 2 X 8 SYP No.1D BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 2 X 4 SYP No.3 \*Except\* MiTek recommends that Stabilizers and required cross bracing W3: 2 X 4 SYP No.2, W1: 2 X 6 SYP No.1D be installed during truss erection, in accordance with Stabilizer OTHERS 2 X 4 SYP No.3 Installation guide REACTIONS All bearings 22-0-0. (lb) - Max Horz 18=-491(LC 4) Max Uplift All uplift 100 lb or less at joint(s) except 18=-465(LC 7), 16=-338(LC 6), 14=-332(LC 7), 12=-471(LC 6), 13=-524(LC 1), 17=-526(LC 1) Max Grav All reactions 250 lb or less at joint(s) except 18=1416(LC 1), 16=1135(LC 11), 14=1123(LC 12), 12=1446(LC 1) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-986/341, 3-4=-737/325, 4-5=-1043/485, 5-6=-420/178, 6-7=-420/180, 7-8=-1042/485, 8-9=-740/322, 9-10=-990/338, 2-18=-1230/539, 10-12=-1263/551 BOT CHORD 17-18=-398/440, 16-17=-398/440, 15-16=-236/670, 14-15=-236/670 WEBS 5-25=-431/410, 7-25=-431/410, 4-16=-613/454, 8-14=-606/447, 2-16=-174/654, itry MIND LICENS 10-14=-219/669 NOTES (15-16) 1) Unbalanced roof live loads have been considered for this design, 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002. 4) All plates are 2x4 MT20 unless otherwise indicated. 5) Gable requires continuous bottom chord bearing. 6) Gable studs spaced at 2-0-0 oc. 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf NEF of 9) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-25, 7-25; Wall dead load (5.0psf) on member(s).4-16, 8-14 10) All bearings are assumed to be SYP No.2. STATE OF 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 465 lb uplift at joint 18, 338 lb uplift at joint FLORIDA 16, 332 lb uplift at joint 14, 471 lb uplift at joint 12, 524 lb uplift at joint 13 and 526 lb uplift at joint 17. 12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. ONAL 13) Attic room checked for L/360 deflection. .14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). June 24,2011

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MILT473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component.

Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the responsibility of the responsibility of the parament bracing of the overall structure is the responsibility of the building designer. For general guidance regarding flabrication, quality controls, storage, delivery, erection and bracing, consult "ANSI/TI Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

	b	Truss	Truss Type	Qty	Ply O'NEIL CONST NELSON RES.	1479943
Jink profiles Lake Cpt. 1 2005 Mrs Industries, m. Frium 2 14 145-1201 Flags 2  Jink manufacture designed per AMSI TP1 is a referenced by the building code.  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509 - Address: 1109 Coastal Bay Bird. Boynton Beach, FL 33450  Jinks Cestify Engineer, Julius Lee, PE, Frish PE, License No. 34509  Jinks Cestify Engineer, Julius Lee, PE, Fr	1993	T05G	GABLE	1	Job Reference (optional)	V-000300000
building designer per AlSI TP 1 as referenced by the building code.  9 (mix Duing Piginger Julius Lep, Pigrotal) #E. Librare No. 34899. Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435  DAD C-845(B) Standard  Regolit* Lumber Increases*1.25, Plate Increases*1.25  Uniform Loads (DI)  Drag: 4-16-10, 8-14-10  Drag: 4-16-10, 8-14-10	uilders FrstSource, Lake Cit	ly, FL 32055			7.140 s Oct 1 2009 MiTek Industries, In	c. Fri Jun 24 14:58:13 2011 Page 2
	building designer po 5) Truss Design Engir DAD CASE(S) Stand Regular Lumber Inc Uniform Loads (pif) Vert: 16-18= 8-10=-114(F)	er ANSI TPI 1 as referen neer: Julius Lee, PE: Flor lard rease=1.25, Plate Increa 10, 14-16=-50, 12-14=- :=-60), 10-11=-114(F=-6	iced by the building code. rida P.E. License No. 34869: Add ise=1.25 10, 1-26=-54, 2-26=-114(F=-60).	dress: 1109 Coastal Bay Blv	vd. Boynton Beach, FL 33435	

Job Truss Truss Type Qty O'NEIL CONST. - NELSON RES. 14799432 361993 T06 ATTIC 10 Job Reference (optional) 40 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14;58:14 2011 Page 1 Builders FrstSource, Lake City, FL 32055 2-0-0 2-0-0 11-0-0 17-7-12 22-0-0 4-4-4 3-5-12 3-2-0 3-2-0 3-5-12 4-4-4 5x6 = Scale = 1:65.7 6 3x6 = WS 3x6 = 15 3x8 || 3x5 | 3x8 11 5x6 / 0.00 12 7-3-0 4x10 4 4x10 🚿 W1 9 47-6 13-0-0 **B1** 12 21-11-0 114 13 3x5 || 7x10 = 3x5 8x9 = 8x9 = 17-7-12 22-0-0 Plate Offsets (X,Y): [11:0-3-8,0-4-0], [13:0-3-8,0-4-0] LOADING (psf) SPACING CSI DEFI 2-0-0 PLATES in (loc) I/defl GRIP L/d TCLL 20.0 Plates Increase 1.25 TC 0.76 Vert(LL) -0.40 11-13 >641 360 MT20 244/190 TCDL Lumber Increase 1.25 BC 0.44 Vert(TL) -0.65 11-13 >396 240 BCLL 0.0 Rep Stress Incr YES WB 0.33 Horz(TL) 0.01 10 n/a n/a BCDL 5.0 Code FBC2007/TPI2002 (Matrix) Wind(LL) 0.11 11-13 >999 240 Weight: 187 lb LUMBER BRACING TOP CHORD 2 X 6 SYP No.1D TOP CHORD Structural wood sheathing directly applied or 4-10-1 oc purlins, except 2 X 8 SYP 2400F 2.0E BOT CHORD end verticals 2 X 4 SYP No.3 \*Except\* WEBS **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. W3: 2 X 4 SYP No.2, W1: 2 X 6 SYP No.1D WEBS 1 Row at midpt 5-7 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide REACTIONS (lb/size) 14=1598/0-3-8, 10=1462/0-3-8 Max Horz 14=443(LC 5) Max Uplift 14=-158(LC 6), 10=-31(LC 7) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1692/203, 3-4=-1565/221, 4-5=-1100/375, 7-8=-1101/376, 8-9=-1664/194, 2-14=-1857/396, 9-10=-1697/194 BOT CHORD 13-14=-439/446, 12-13=-39/1078, 11-12=-39/1078 WEBS 5-15=-1280/400, 7-15=-1280/400, 4-13=-12/852, 8-11=-9/811, 2-13=-93/1003, 9-11=-91/1022 NOTES (11-12) 1) Unbalanced roof live loads have been considered for this design. will WILLIAM S.K. 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone, end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 5) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s). 4-13, 8-11 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13 7) All bearings are assumed to be SYP No.2 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 14 and 31 lb uplift at 1111111 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 10) Attic room checked for L/360 deflection. of of 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 STATE OF LOAD CASE(S) Standard ONAL 1111111111 June 24,2011

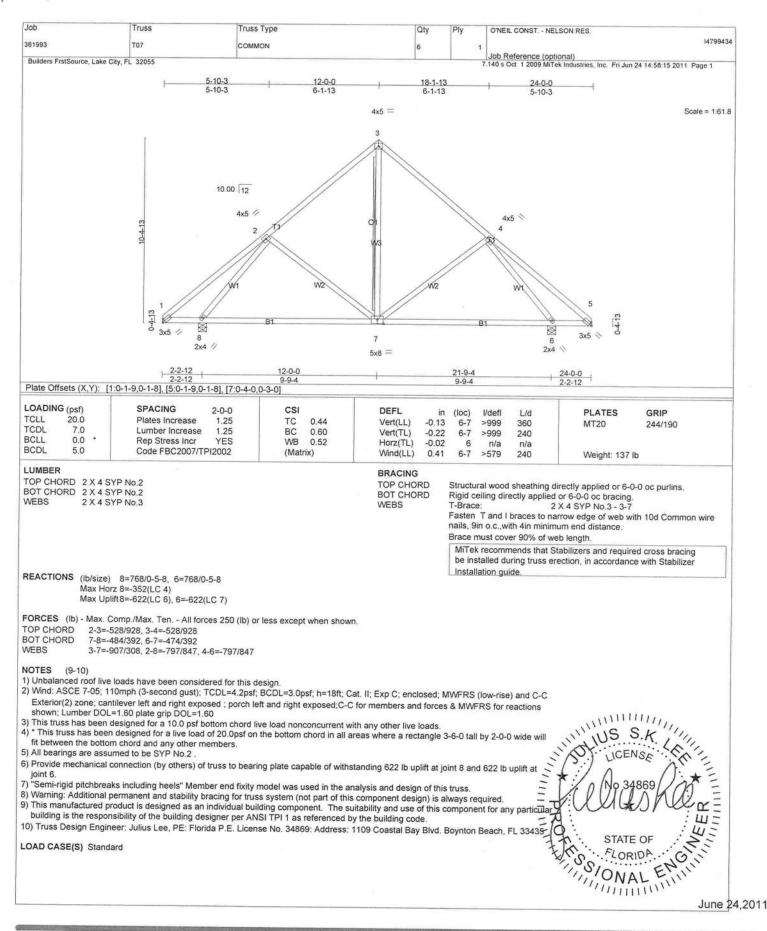
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MILT4T3 BEFORE USE.

Design valid for use only with Millek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not fruss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult. ANSI/TP1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

O'NEIL CONST. - NELSON RES. Qty Truss Type Job Truss 14799433 ROOF TRUSS 361993 T06A Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:14 2011 Page 1 Builders FrstSource, Lake City, FL 32055 10-11-8 -2-0-8 4-3-12 2-0-8 4-3-12 6-7-12 Scale = 1:63.1 3x6 || 3x6 3x6 = 3x8 || 4x6 / 10.00 12 5x8 / W1 6-0-8 **B1** 5x6 || 3x5 || 5x6 GRIP PLATES CSI DEFL I/defl L/d in (loc) LOADING (psf) SPACING 2-0-0 244/190 >999 360 MT20 Vert(LL) -0.12 7-8 Plates Increase 1.25 TC 0.35 TCLL 20.0 -0.22 >577 240 Vert(TL) 7-8 Lumber Increase 1.25 BC 0.38 TCDL 7.0 -0.00 n/a n/a Horz(TL) WB 0.24 0.0 Rep Stress Incr YES BCLL Weight: 118 lb 0.21 7-8 >589 240 Code FBC2007/TPI2002 (Matrix) Wind(LL) BCDL 5.0 BRACING LUMBER Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD TOP CHORD 2 X 6 SYP No.1D BOT CHORD 2 X 8 SYP No.1D Rigid ceiling directly applied or 6-10-11 oc bracing. BOT CHORD 2 X 4 SYP No.3 \*Except\* WEBS W5,W1: 2 X 6 SYP No.1D MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS (lb/size) 9=719/0-3-8, 7=833/0-3-8 Max Horz 9=524(LC 6) Max Uplift 7=-240(LC 6) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-723/0, 3-4=-707/0, 4-5=-482/0, 5-6=-484/323, 7-10=-290/456, 6-10=-271/465, TOP CHORD 2-9=-493/0 BOT CHORD 8-9=-1188/137, 7-8=-308/128 4-8=-45/333, 2-8=-45/953, 5-10=-337/141 WEBS NOTES (10-11)1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip UCENSE CO 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 4) Ceiling dead load (5.0 psf) on member(s). 4-5, 5-10; Wall dead load (5.0psf) on member(s).4-8 5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 7-8 6) All bearings are assumed to be SYP No.2 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 7.
 "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. TO TO STATE OF FLORIDA ONAL June 24,2011

WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL-7473 BEFORE USE.

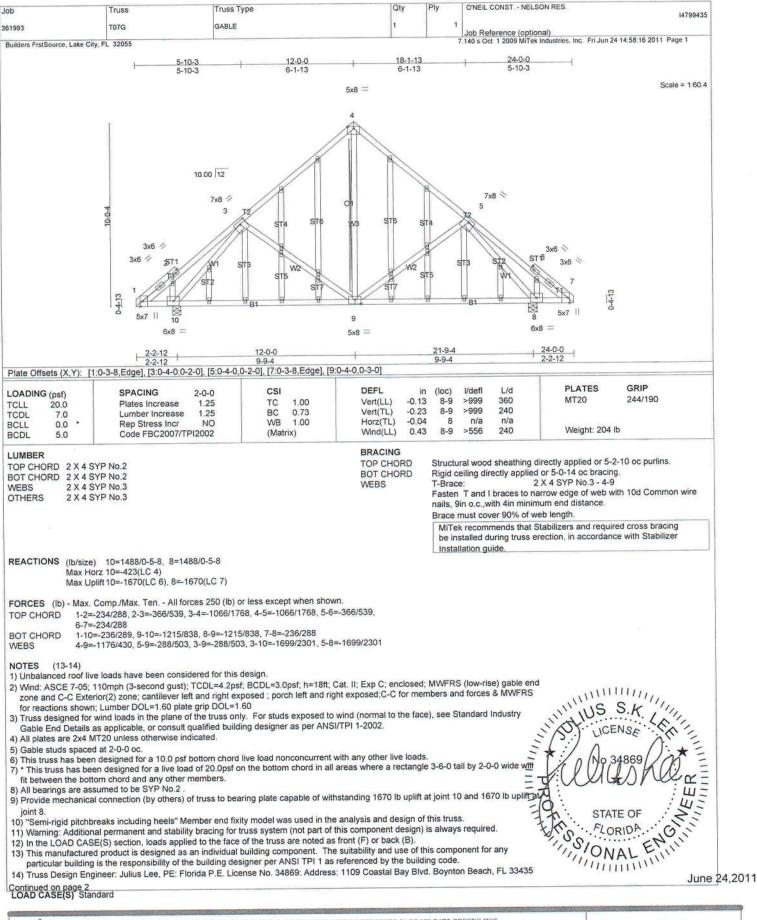
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer on thus designer. Bracking shown is for lateral support of individual web members only. Additional temporary bracking to insure stability during construction is the responsibility of the erector. Additional permanent bracking of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, defivery, erection and bracking, consult. AMSI/TP1 Quality Criteria, DSB-89 and BCS11 Building Component. Safety Information.



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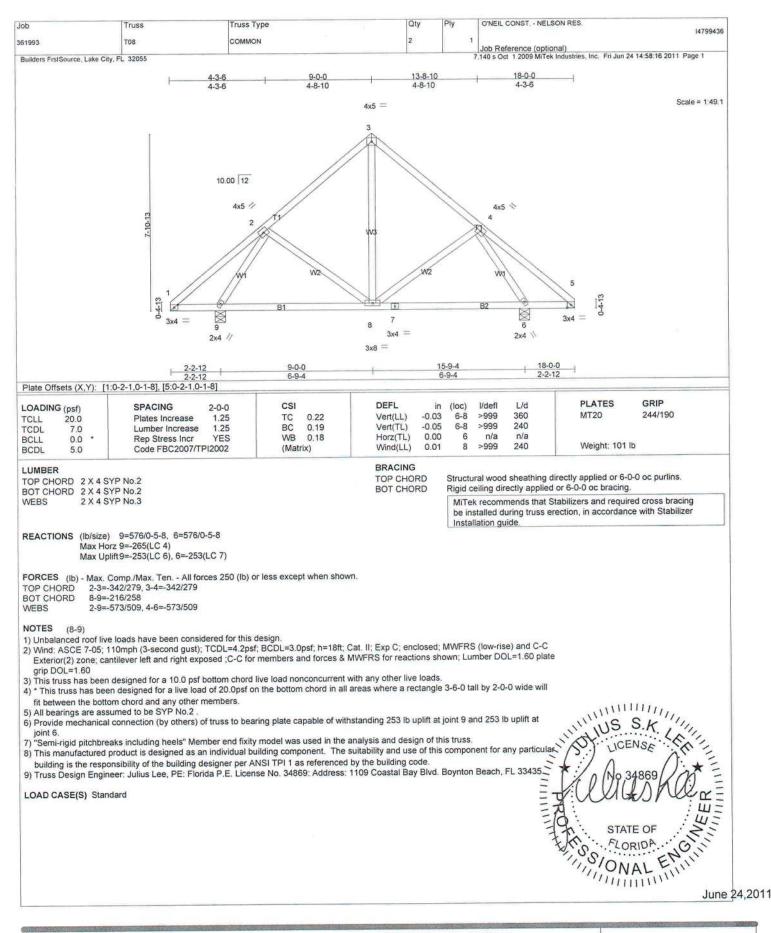


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Job	Truss	Truss Type	Qty	Ply	O'NEIL CONST NELSON RES.	
361993	T07G	GABLE	1	1		799435
Builders FrstSource, Lake City, F	L 32055	2000000		7	Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:16 2011 Page :	2
bulletis ( Islandice, Cana Olly, )	2000			1.	140 s Oct 1 2009 Millek Industries, Inc. Fri Jun 24 14:58:16 2011 Page ;	2
Uniform Loads (plf)	se=1.25, Plate Increase=1.2 F=-60), 4-7=-114(F=-60), 1-7					
	(Pr					



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component, Applicability of design parameters and proper incorporation of component is responsibility of building designer - not fuss designer - Roacing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the serector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding flobrication, quality control, storage, delivery, erection and bracing, consult — AMSI/TRI Quality Citleria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onotrio Drive, Madison, WI 53719.

Job Truss Truss Type Qty O'NEIL CONST. - NELSON RES. 14799437 361993 TORG GABLE Job Reference (optional) 40 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:17 2011 Page 1 Builders FrstSource, Lake City, FL 32055 9-0-0 9-0-0 9-0-0 4x5 = Scale = 1:46.5 6 10.00 12 3x4 4 9 3x4 V 10 B1 4 **B**2 4x6 4x6 19 18 17 16 15 13 12 3x4 = 18-0-0 LOADING (psf) SPACING CSI 2-0-0 DEFL in I/defl L/d PLATES GRIP (loc) TCLL 20.0 Plates Increase 1 25 TC 0.26 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber Increase BC 1.25 0.31 Vert(TL) n/a n/a 999 BCLL 0.0 Rep Stress Incr NO WR 0.49 Horz(TL) 0.01 12 n/a BCDL Code FBC2007/TPI2002 (Matrix) Weight: 112 lb LUMBER BRACING purlinguage of the second state of the second TOP CHORD 2 X 4 SYP No.2 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins. BOT CHORD 2 X 4 SYP No.2 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing OTHERS 2 X 4 SYP No 3 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS All bearings 14-0-0. (lb) - Max Horz 19=-314(LC 4) Max Uplift All uplift 100 lb or less at joint(s) 16 except 17=-261(LC 6), 18=-360(LC 5), 19=-364(LC 4), 14=-261(LC 7), 13=-354(LC 4), 12=-363(LC 7) Max Grav All reactions 250 lb or less at joint(s) 18, 13 except 16=553(LC 1), 17=300(LC 10), 19=434(LC 10), 14=300(LC 11), 12=434(LC 11) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-331/256, 2-3=-370/380, 3-4=-237/333, 4-5=-101/353, 5-6=-13/333, 6-7=-9/333, 7-8=-101/353, 8-9=-231/333, 9-10=-370/380, 10-11=-331/256 BOT CHORD 1-19=-210/318, 18-19=-210/318, 17-18=-210/318, 16-17=-210/318, 15-16=-210/318, 14-15=-210/318, 13-14=-210/318, 12-13=-210/318, 11-12=-210/318 WEBS 6-16=-537/100, 5-17=-266/270, 4-18=-196/259, 3-19=-339/315, 7-14=-266/270, 8-13=-196/258. 9-12=-339/317 FLORIDA (13-14)ONAL 1) Unbalanced roof live loads have been considered for this design. 11/11/11/11 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002. 4) All plates are 2x4 MT20 unless otherwise indicated. 5) Gable studs spaced at 2-0-0 oc. 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members 8) All bearings are assumed to be SYP No.2 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 17=261, 18=360, 19=364, 14=261, 13=354, 12=363. 10) Non Standard bearing condition. Review required. 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). 13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code 14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 June 24,2011 Continued on page 2 LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL 7473 REFORE USE.

Design valid for use only with Millek connectors. This design is based only upon parameters shown, and is for an individual building component.

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		CALL STANKING CO.	reco			
					O'NEIL CONST NELSON RES. 1479	9437
51993	1000	GABLE	1	1	Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:17 2011 Page 2	
Builders FrstSource, Lake City, Fl	L 32055			7.	140 S Oct 1 2008 Miller industries, inc. Pri Juli 24 14:38:17 2011 Page 2	
Uniform Loads (plf)	se=1.25, Plate Increase=1.2 F=-60), 6-11=-114(F=-60), 1					

Job Truss Truss Type Qty O'NEIL CONST. - NELSON RES 361993 TOS COMMON Job Reference (optional) 40 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:17 2011 Page 1 Builders FrstSource, Lake City, FL 32055 18-4-11 6-1-5 6-1-11 6-1-11 6-1-5 4x5 || Scale = 1:62.7 5x8 / 5x8 < 10.00 12 0-4-13 3x4 / 9 8 12 10 6 2x4 // 2x4 / 3x4 = 3x4 = 3x4 = 2-2-12 24-6-0 2-2-12 Plate Offsets (X,Y): [1:0-1-9,0-1-8], [2:0-3-12,0-3-0], [4:0-3-12,0-3-0], [5:0-1-9,0-1-8] LOADING (psf) SPACING 2-0-0 CSI DEFL PLATES GRIP in I/defl L/d TCLL 20.0 Plates Increase 1.25 TC 0.42 Vert(LL) -0.11 7-9 >999 360 MT20 244/190 TCDL 7.0 Lumber Increase 1.25 BC 0.30 -0 14 Vert(TL) 7-9 >999 240 BCLL 0.0 Rep Stress Incr WB YES 0.48 Horz(TL) -0.01 6 n/a n/a BCDL Code FBC2007/TPI2002 5.0 (Matrix) Wind(LL) 7-9 Weight: 151 lb 0.11 >999 240 LUMBER BRACING Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing. T-Brace: 2 X 4 SYP No.3 - 3-7, 3-9 TOP CHORD 2 X 4 SYP No.2 TOP CHORD BOT CHORD 2 X 4 SYP No.2 **BOT CHORD** 2 X 4 SYP No.3 WEBS WEBS Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance. Brace must cover 90% of web length. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide REACTIONS (lb/size) 7=812/0-5-8, 10=604/0-5-8, 6=322/0-5-8 Max Horz 10=-359(LC 4) Max Uplift7=-588(LC 7), 10=-451(LC 6), 6=-238(LC 7) Max Grav 7=812(LC 1), 10=604(LC 1), 6=324(LC 11) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 1-2=-75/289, 2-3=-400/686, 4-5=-88/298 BOT CHORD 9-10=-412/283 WEBS 3-7=-465/402, 4-7=-230/431, 3-9=-722/320, 2-9=-155/319, 2-10=-674/641, 4-6=-333/145 NOTES (9-10)1) Unbalanced roof live loads have been considered for this design. 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will
5) All bearings are assumed to be SYP No.2.
6) Provide mechanical connection (by others) of truss to bearing slets. "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required. 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular 0 STATE OF building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 10) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 FLORIDA SIONAL LOAD CASE(S) Standard MALININ June 24,2011

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-473 BEFORE USE.
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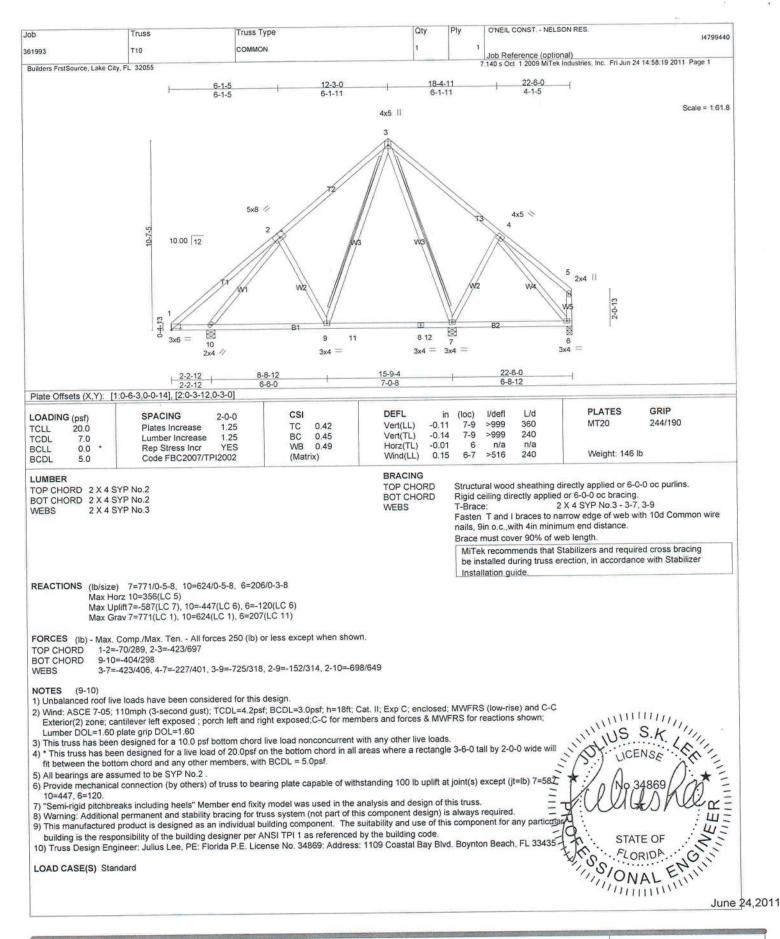
Qty O'NEIL CONST. - NELSON RES. Job Truss Truss Type Ply 14799439 361993 TOOG GABLE Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:18 2011 Page 1 Builders FrstSource, Lake City, FL 32055 12-3-0 6-1-11 18-4-11 24-6-0 Scale = 1:65.6 3x4 || 5x6 = 10.00 12 3x4 || 3x4 II 4x5 / 4x5 3 3x5 / 3x5 3x5 / ST1 3x5 N STE 0-4-13 5x7 11 10 37 5x7 || 3x4 = 6x8 = 6x8 = 24-6-0 8-8-12 7-0-8 Plate Offsets (X,Y): [1:0-3-8,Edge], [3:0-0-14,0-1-8], [4:0-1-12,0-1-8], [5:0-0-14,0-1-8], [7:0-3-8,Edge], [8:0-1-3,0-2-4], [12:0-1-3,0-2-4] LOADING (psf) PLATES GRIP SPACING CSI DEFL L/d 2-0-0 in (loc) I/defl 244/190 Plates Increase 1.25 TC 0.76 Vert(LL) -0.12 9-11 >999 360 MT20 TCLL 20.0 1.25 BC 0.37 Vert(TL) -0.159-11 >999 240 TCDL 7.0 Lumber Increase 0.0 Rep Stress Incr NO WB 0.85 Horz(TL) -0.01 8 n/a n/a BCLL Code FBC2007/TPI2002 (Matrix) Wind(LL) 0.12 9-11 >999 240 Weight: 233 lb BCDL 5.0 LUMBER BRACING TOP CHORD 2 X 4 SYP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2 X 4 SYP No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **BOT CHORD** 2 X 4 SYP No.3 - 4-9, 4-11 2 X 4 SYP No.3 WEBS T-Brace: Fasten T and I braces to narrow edge of web with 10d Common wire OTHERS 2 X 4 SYP No.3 nails, 9in o.c., with 4in minimum end distance. Brace must cover 90% of web length. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS (lb/size) 9=1455/0-5-8, 12=1127/0-5-8, 8=622/0-5-8 Max Horz 12=433(LC 5) Max Uplift9=-1257(LC 7), 12=-970(LC 6), 8=-525(LC 7) Max Grav 9=1455(LC 1), 12=1127(LC 1), 8=627(LC 11) FORCES (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. 1-2=-255/354, 2-3=-374/618, 3-4=-742/986, 4-5=-131/331, 5-6=-403/640, 6-7=-284/375 TOP CHORD **BOT CHORD** 1-12=-291/312, 11-12=-647/555, 11-36=-253/212, 10-36=-253/212, 10-37=-253/212, 9-37=-253/212, 7-8=-307/332 WEBS 4-9=-924/880, 5-9=-478/669, 4-11=-903/504, 3-11=-364/529, 3-12=-1318/1290, try SINGER LICER 5-8=-698/503 (13-14)1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1-2002. 4) All plates are 2x4 MT20 unless otherwise indicated. 5) Gable studs spaced at 2-0-0 oc. 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide vall fit between the bottom chord and any other members, with BCDL = 5.0psf. 8) All bearings are assumed to be SYP No.2.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1257 Ш STATE OF FLORIDA S 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. SIONAL 177 ONAL 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required. 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B) June 24,2011 Continued on page 2

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ob	Truss	Truss Type	Qty	Ply	O'NEIL CONST NELSON RES.	
61993	T09G	GABLE	1		1	1479943
uilders FrstSource, Lak	e City, FL 32055				Job Reference (optional) 7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14;5	8:18 2011 Page 2
building acoigno	a poi minoi ir i las lelelel	an individual building component. The s need by the building code. rida P.E. License No. 34869: Address: 1			nent for any particular building is the responsib	
OAD CASE(S) Sta Regular: Lumber Uniform Loads (p	andard Increase=1.25, Plate Increa	ase=1.25			. 3003.1,1 2 30733	
Vert: 1-4=	=-114(F=-60), 4-7=-114(F=-	60), 1-36=-10, 36-37=-50, 7-37=-10				
						53



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ANJ/IPII Quellity Criteria, DSB-89 and BCS11 Building Component available from Truss Plate Institute. 583 D'Onotrio Drive, Madison, WI 53719.

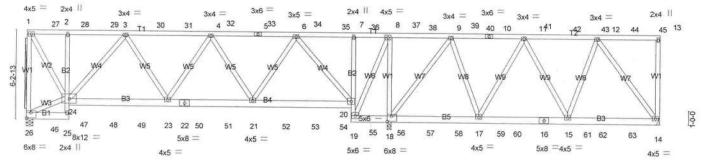
Job Truss Truss Type Qty O'NEIL CONST. - NELSON RES. 14799441 361993 T11 COMMON lob Reference (optional) 40 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:19 2011 Page 1 Builders FrstSource, Lake City, FL 32055 2-2-12 16-0-0 5-0-2 5-0-2 3-9-0 4x5 = Scale = 1:63.0 10.00 12 4x5 📎 5x6 3x5 / **B**1 5x8 10 11 13 8 6 2x6 || 3x8 || 8x9 = Plate Offsets (X,Y): [1:0-4-0,Edge], [3:0-3-0,0-3-0], [8:0-3-8,0-4-0] LOADING (psf) SPACING 2-0-0 CSI DEFI **PLATES** (loc) I/defl GRIP L/d TCLL 20.0 Plates Increase 1.25 TC 0.64 Vert(LL) -0.05 7-8 >999 360 MT20 244/190 TCDL 7.0 Lumber Increase 1.25 BC 0.29 Vert(TL) -0.08 7-8 >999 240 BCLL 0.0 Rep Stress Incr NO WB 0.81 Horz(TL) -0.00 6 n/a n/a BCDL 5.0 Code FBC2007/TPI2002 (Matrix) Wind(LL) 0.05 7-8 >999 240 Weight: 145 lb LUMBER BRACING TOP CHORD 2 X 4 SYP No.2 TOP CHORD Structural wood sheathing directly applied or 5-1-2 oc purlins, except 2 X 8 SYP No.1D BOT CHORD end verticals 2 X 4 SYP No.3 \*Except\* WEBS BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. W7: 2 X 4 SYP No.2 WEBS T-Brace: 2 X 4 SYP No.3 - 5-6 Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance. Brace must cover 90% of web length. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide REACTIONS (lb/size) 6=2107/0-5-8, 9=1557/0-5-8 Max Horz 9=342(LC 4) Max Uplift6=-1132(LC 5), 9=-858(LC 5) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1477/800, 3-4=-867/463, 4-5=-829/469, 5-6=-1743/944 BOT CHORD 8-9=-358/101, 8-10=-758/1065, 10-11=-758/1065, 7-11=-758/1065 WEBS 2-9=-1448/785, 2-8=-568/1086, 3-8=-597/737, 3-7=-744/687, 4-7=-463/805, 5-7=-707/1301 NOTES (11-12) THE STATE OF THE S 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 5) All bearings are assumed to be SYP No.2 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1132 9=858 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss. 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 595 lb down and 657 lb up at 7-1-8 541 lb down and 199 lb up at 9-0-12, 554 lb down and 203 lb up at 11-0-12, and 479 lb down and 250 lb up at 13-0-12, and 479 lb OF. down and 250 lb up at 15-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required. STATE OF 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). FLORIDA 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any THO ONA particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 12) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 COARD GASE (SaleStandard June 24,2011

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		7477 - 34543	1400000		
ob	Truss	Truss Type	Qty Ply	O'NEIL CONST NELSON RES.	14799441
9.00.00	T11	COMMON	1 1	i l	14/33441
61993		Common		Job Reference (optional) 7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:19 2011 Pa	
Builders FrstSource, Lake City, Fl	32055			7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:19 2011 Pa	age 2
Uniform Loads (plf) Vert: 1-4=-54, 4 Concentrated Loads (lb)	se=1.25, Plate Increase=1.2 -5=-54, 1-6=-10				
		6			

Job Truss Truss Type Qty O'NEIL CONST. - NELSON RES 361993 14799442 T17 SPECIAL Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:20 2011 Page 1 Builders FrstSource, Lake City, FL 32055 2-11-8 6-9-14 12-8-12 25-1-12 29-4-6 39-6-1 5-10-14 3-10-6 5-10-14 3-10-6 2-7-12 4-2-10 5-0-14 4-4-7 Scale = 1:76.6 4x5 = 2x4 || 3x6 2x4 II 4x5 = 3x4 = 2x4 11 3x6 = 3x5 = 3x4 = 3x4 = 3x4 = 27 2 4 32 6 34 533 29 3 30 31 35 7 8 37 39 40 T1 38 9 141 45 13 10 T22 43 12 44



2-11-8	6-9-12	5-10-15	6-9-13	2-7-12	6-2-7	37-6-3 6-2-1	43-10-8
Plate Offsets (X,Y): [1  LOADING (psf)  TCLL 20.0  TCDL 7.0  BCLL 0.0 -  BCDL 5.0	SPACING Plates Increase Lumber Increase Rep Stress Incr Code FBC2007/TF	2-0-0 1.25 1.25 NO	CSI TC 0.45 BC 0.63 WB 0.93 (Matrix)	DEFL Vert(LL) Vert(TL) Horz(TL) Wind(LL)	in (loc) -0.04 21-23 -0.09 23-24 -0.03 14 0.10 23-24	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES GRIP MT20 244/190 Weight: 334 lb

LUMBER

TOP CHORD 2 X 4 SYP No.2

0.0.4

BOT CHORD 2 X 6 SYP No.1D \*Except\* B2: 2 X 4 SYP No.3

WEBS 2 X 4 SYP No.3

2-11-8

BRACING

TOP CHORD

**BOT CHORD** WEBS

Structural wood sheathing directly applied or 5-10-9 oc purlins, except end verticals

Rigid ceiling directly applied or 5-1-4 oc bracing. T-Brace: 2 X 4 SYP No.3 - 1-26

Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance. Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide

REACTIONS (lb/size) 26=1070/0-5-8, 14=609/Mechanical, 18=2338/0-3-8 Max Uplift 26=-1183(LC 3), 14=-650(LC 3), 18=-2628(LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-26=-1039/1102, 1-27=-477/533, 2-27=-477/533, 2-28=-484/542, 28-29=-484/542,

3-29=-484/542, 3-30=-1061/1193, 30-31=-1061/1193, 31-32=-1061/1193 4-32=-1061/1193, 4-33=-857/964, 5-33=-857/964, 5-34=-857/964, 6-34=-857/964

15 0 2

8-38=-696/624, 38-39=-696/624, 9-39=-696/624, 11-42=-363/420, 42-43=-363/420, 12-43=-363/420

**BOT CHORD** 24-47=-1053/934, 47-48=-1053/934, 48-49=-1053/934, 23-49=-1053/934,

22-23=-1220/1082, 22-50=-1220/1082, 50-51=-1220/1082, 21-51=-1220/1082,

21-52=-609/538, 52-53=-609/538, 53-54=-609/538, 20-54=-609/538, 19-20=-1130/1268, 19-55=-624/696, 18-55=-624/696, 17-59=-390/354, 59-60=-390/354, 16-60=-390/354,

15-16=-390/354, 15-61=-373/340, 61-62=-373/340, 62-63=-373/340, 14-63=-373/340

1-24=-1101/983, 3-24=-707/802, 3-23=-269/253, 4-21=-434/493, 6-21=-682/614,

6-20=-1124/1268, 8-19=-1261/1131, 8-18=-1320/1421, 9-18=-1026/1134, 9-17=-605/486,

11-17=-477/493, 12-14=-571/627

NOTES

WEBS

THE LICEN. 1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) All bearings are assumed to be SYP No.2.

6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 26=1183, 14=650, 18=2628.

8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

Continued on page 2

June 24,2011

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WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL 7473 BEFORE USE. Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer- not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the validing designer, for general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult. ANSI/TPI Quality Criteria, DSB-89 and 8CSI1 Building Component Safety Information.

Your Company Name

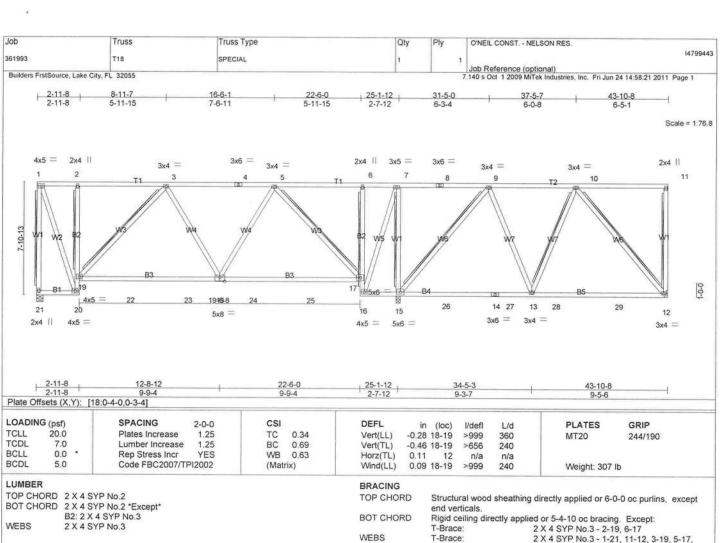
STATE OF

FLORIDA

SIONAL

17701ONAT

b	Truss	Truss Type	Qty	Ply	O'NEIL CONST NELSON RES.	14799442
1993	T17	SPECIAL	1	1	Job Reference (optional)	
Builders FrstSource, Lak	e City, FL 32055				7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24	14:58:20 2011 Page 2
NOTES (12-14) 1) Hanger(s) or other down and 86 lb u 1b down and 83 lb u 1b up at 31-11-4, 40 1b up at 15-11-4 1c and 69 lb up at 3 1c down and 69 lb u 1c design/selection 1c Warning: Addition 1c Tiss manufactu 1c building design 1d Use Simpson H 1d Use Simpson H 1d CAD CASE(S) S 1) Regular: Lumber 1c Uniform Loads ( 1c Vert: 1-1 1c Concentrated Lo	er connection device(s) stip at 3-11-4, 23 lb down at bup at 13-11-4, 23 lb down at bup at 13-11 bup at 13-11 bup at 13-11 bup at 14-11-4 on top chor lb down and 65 lb up at 13-5-11-4, 23 lb down and 65 lb up at 35-11-4, 23 lb down and 65 lb up at 35-11-4, 23 lb down of such connection device onal permanent and stable ASE(S) section, loads appired product is designed are per ANSI TPI 1 as refeingineer: Julius Lee, PE: 14TU26 to attach Truss to 04 tandard r Increase=1.25, Plate Incepia 13-5-4, 25-26-10, 20-24 ands (lb) =-14(B) 1=-103(B) 5-23	and 86 lb up at 5-11-4, 23 lb down and 86 wn and 86 lb up at 15-11-4, 23 lb down and 86 lb up at 15-11-4, 23 lb down and 1-4, 49 lb down and 83 lb up at 25-11-4, 4 3-14, 49 lb down and 83 lb up at 25-11-4, 4 30 lb down and 63 lb up at 0-1-12, 7-11-4, 30 lb down and 65 lb up at 9-11-4 at 17-11-4, 30 lb down and 65 lb up at 9-11-4 lb lb up at 27-11-4, 23 lb down and 69 lb up at 27-11-4, 23 lb down and 69 lb up at 37-11-4, and 23 lb down e(s) is the responsibility of others. Silitity bracing for truss system (not part of the san individual building component. The renced by the building code. Florida P.E. License No. 34869: Address: Carrying member  crease=1.25  =-10, 14-19=-10  (B) 16=-4(B) 23=-30(B) 21=-30(B) 10=-49(B) 41=-40(B) 30=-40(B) 41=-40(B)	6 lb up at 7-11-4, 23 lb down and 86 lb up at 17-11-4, 23 lb lb down and 83 lb u 11-4, 49 lb down and 8 lb u 11-4, 49 lb down and 69 lb u 14, 30 lb down and 65 lb u 15-11-4, 30 lb down and 65 lb u 15-11-4, 30 lb down and 69 lb up at 39-11-4, 23 lb down and 69 lb up at 39-11 l	down and down and, 23 lb do at 27-1' 3 lb up at 1-1 up at 11 if 65 lb up own and 6 -4, and 2' is always is compo	d 83 ib up at 0-1-12, 49 ib down and 83 ib d 86 ib up at 9-11-4, 23 ib down and 86 ib wn and 86 ib up at 19-11-4, 23 ib down and 86 ib up at 19-11-4, 23 ib down at 1-4, 49 ib down and 83 ib up at 29-11-4, 4 is 37-11-4, and 49 ib down and 83 ib up at 1-4, 30 ib down and 65 ib up at 3-11-4, 30 ib down and 65 ib up at 13-11-4 at 21-11-4, 23 ib down and 69 ib up at 2 59 ib up at 31-11-4, 23 ib down and 69 ib up at 3 ib down and 69 ib up at 35 ib down and 69 ib up at 31-11-4 on bottometric and 69 ib up at 31-11-4 on bottomet	up at 1-11-4, 23 lb up at 11-11-4, 23 nd 86 lb up at 9 lb down and 83 lb 39-11-4, and 49 lb 0 lb down and 65 lb i, 30 lb down and 65 3-11-4, 23 lb down up at 33-11-4, 23 lb om chord. The
05 00/	D) 00- 00/D) 07- 40/D) 0	88=-49(B) 39=-49(B) 40=-49(B) 41=-49(B) 33=-30(B) 54=-30(B) 55=-4(B) 56=-4(B) 57	42=-49(B) 43=-49(B)	44=-45(D)	45-45(6) 40-4(6) 47-50(6) 40-50(6)	49=-30(B)
50=-30(	B) 51=-30(B) 52=-30(B) 5	33=-30(B) 34=-30(B) 33=-4(B) 33=-4(B) 33	(2)	**************************************	**************************************	



7-15, 9-15, 10-13, 10-12

Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c., with 4in minimum end distance. Brace must cover 90% of web length.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 21=799/0-5-8, 12=558/Mechanical, 15=2105/0-3-8 Max Uplift 21=-291(LC 4), 12=-195(LC 4), 15=-648(LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-21=-842/528, 1-2=-274/170, 2-3=-312/185, 3-4=-685/379, 4-5=-685/379,

7-8=-197/478, 8-9=-197/478, 9-10=-264/134

**BOT CHORD** 19-20=-711/470, 19-22=-436/681, 22-23=-436/681, 18-23=-436/681, 18-24=-360/496,

24-25=-360/496, 17-25=-360/496, 16-17=-994/553, 15-16=-478/197, 13-28=-184/280,

28-29=-184/280, 12-29=-184/280

1-20=-512/827, 3-19=-542/368, 5-18=-39/380, 5-17=-988/555, 7-16=-568/946,

7-15=-1165/785, 9-15=-928/483, 9-13=-63/414, 10-12=-415/283

WEBS

1) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) Provide adequate drainage to prevent water ponding.

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide with fit between the bottom chord and any other members, with BCDL = 5.0psf.

5) All bearings are assumed to be SYP No.2

6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=291 12=195 15=648

8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required. 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

11) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

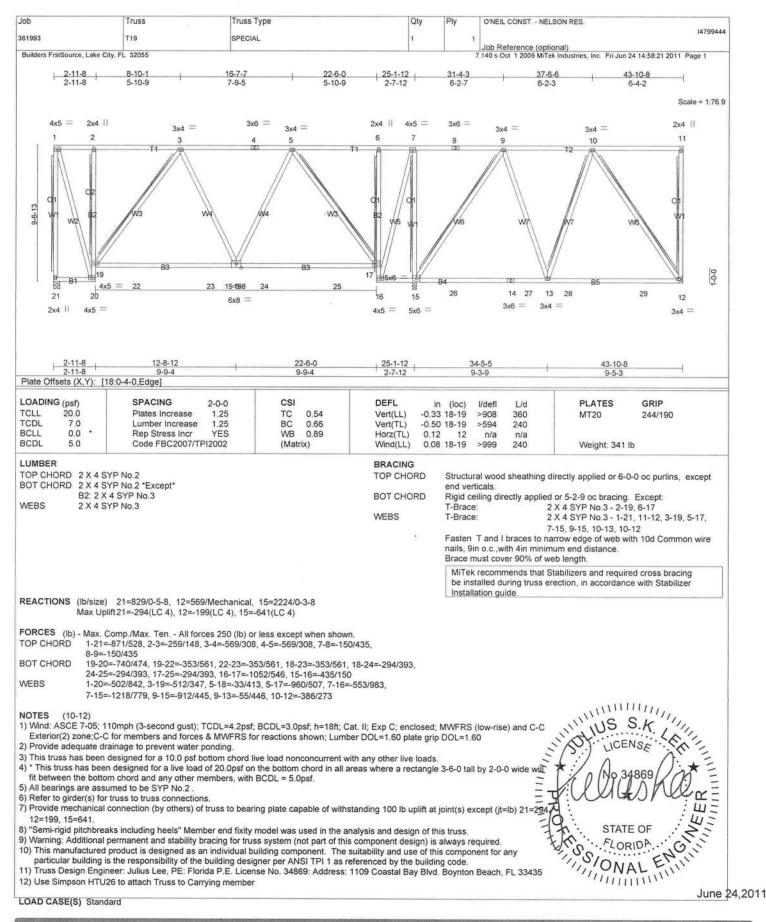
danthe Simpsage TU26 to attach Truss to Carrying member

Security US S.K Ш 0 STATE OF FLORIDA SIONAL 17/0/ONAL

June 24,2011

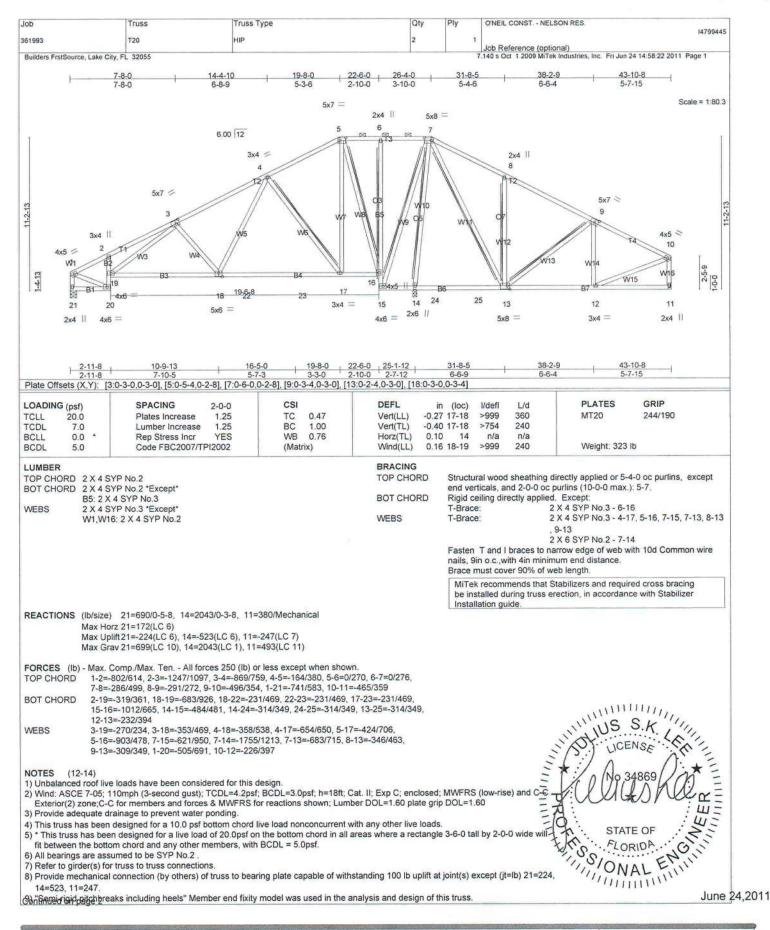
Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL 7473 BEFORE USE, Design valid for use only with Milek connectors. This design is based only upon parameters shown, and is for an individual bullding component. Applicability of design paramenters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the surface control to the proposal parameter is the responsibility of the building designer. For general guidance regarding flobrication, qualify control, storage, delivery, erection and bracing, consult "ANSI/TPI Quality Criteria, DS8-89 and 8CS11 Building Component Safety Information available from Truss Plate Institute. 583 D'Onofrio Drive, Madison, WI 53/219.

Job	Tres	Truss Type		Ply	O'NEIL CONST NELSON RES.	
361993	118	SPECIAL	1	1		4799443
Builders PostSource, Love City, I	12065			7	Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:21 2011 Page	2
LOAD CASE(S) Standard	ď					
LONG SAGE(G) CLARGE						



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT.7473 REFORE USE.

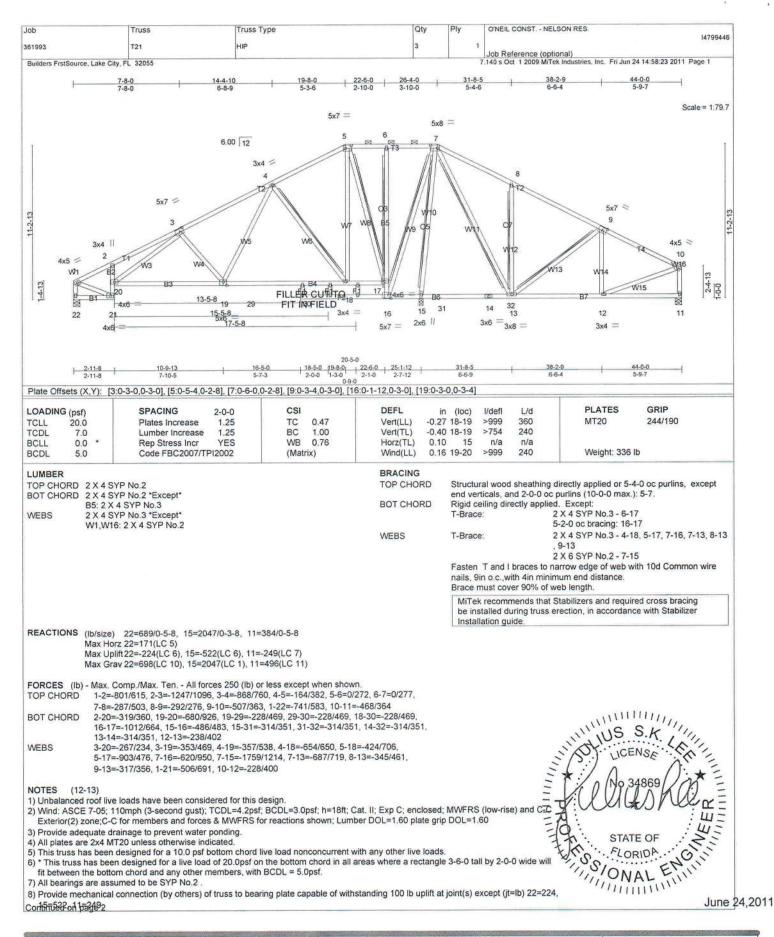
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility to building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult. ANSI/TPII Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



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Job	Truss	Truss Type	Qty	Ply	O'NEIL CONST NELSON RES.	
361993	T20	HIP	2	1	1	14799445
Builders FrstSource, Lake City,	FL 32055			1	Job Reference (optional) 7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:22 2011 Pa	ge 2
Warning: Additional p     This manufactured pr     building designer per     Truss Design Enginer	permanent and stability bracing oduct is designed as an indication ANSI TPI 1 as referenced by er: Julius Lee, PE: Florida P. to attach Truss to Carrying references.	y the building code. E. License No. 34869: Address: 1109 Coastal	t design) i I use of thi	s always i	required. lent for any particular building is the responsibility of the	
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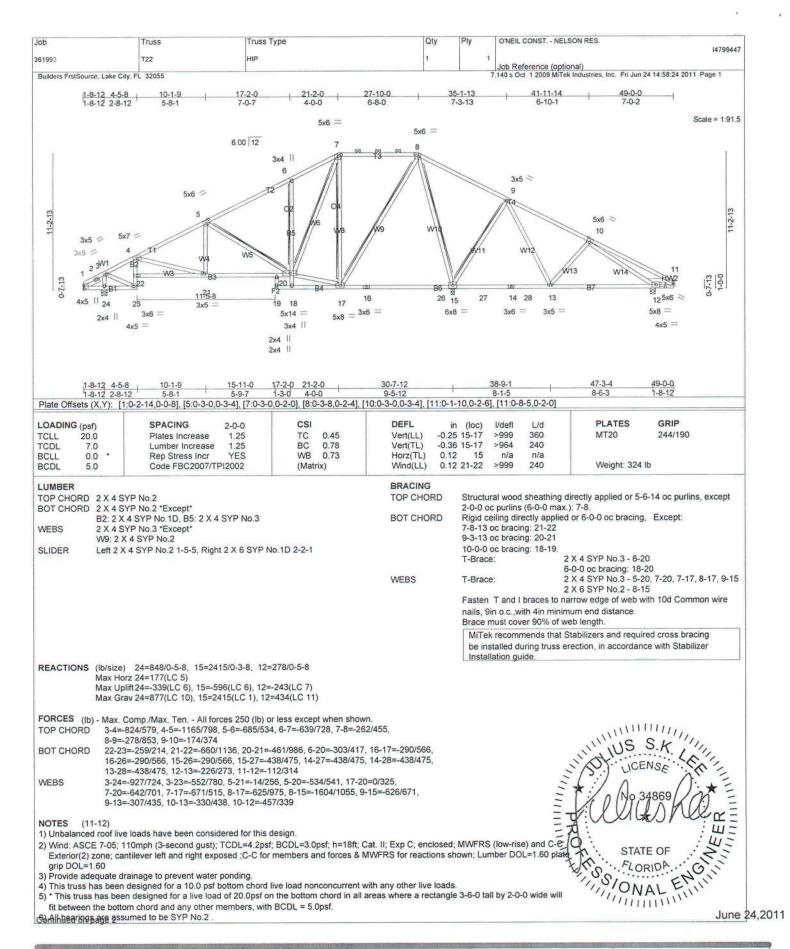


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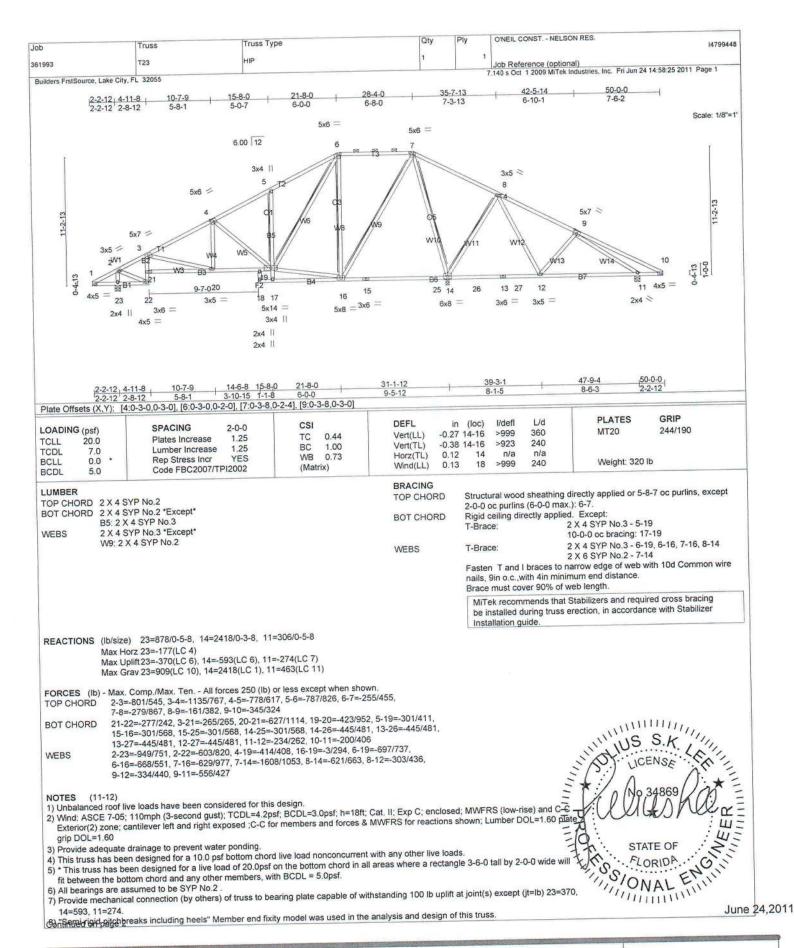
Job	Truss	Truss Type	Qty	Ply	O'NEIL CONST NELSON RES.	
361993	T21	HIP	3	1		14799446
Builders FrstSource, Lake City, F	L 32055		120	l	Job Reference (optional) 1.140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:23 201	1 Page 2
NOTES (12-13) 9) "Semi-rigid pitchbreaks 10) Design assumes 4x2 ( 11) Warning: Additional per 12) This manufactured probuilding designer per	including heels" Member er flat orientation) purlins at oc ermanent and stability bracin duct is designed as an indiv ANSI TPI 1 as referenced by r: Julius Lee, PE; Florida P.	nd fixity model was used in the analysis and decepacing indicated, fastened to truss TC w/ 2-ng for truss system (not part of this component vidual building component. The suitability and y the building code.  E. License No. 34869: Address: 1109 Coastal	10d nails. design) is use of thi	is truss. s always r s compon	equired. ent for any particular building is the responsibility of	
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a T22  ers FrstSource, Lake City, FL 32055  ES (11-12)  rovide mechanical connection (bemi-rigid pitchbreaks including I sesign assumes 4x2 (flat orientati Marning: Additional permanent a this manufactured product is desuilding designer per ANSI TPI 1 russ Design Engineer: Julius Le	on) purlins at oc spacing ind and stability bracing for truss signed as an individual build as referenced by the build	dicated, fastened to s system (not part ding component.	to truss TC w/ 2- of this compone the suitability an	design of the 10d nails, nt design) in d use of thi	joint(s) ex is truss. s always r s compon	Job Reference (7.140 s Oct 1 2009)  cept (jt=lb) 24=3  equired, ent for any parti	MiTek Industries, Inc. Fi 339, 15=596, 12=24 cular building is the	43.	
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rovide mechanical connection (b isemi-rigid pitchbreaks including I sesign assumes 4x2 (flat orientati Marning: Additional permanent a This manufactured product is dei puilding designer per ANSI TPI 1 Truss Design Engineer: Julius Le	on) purlins at oc spacing inc and stability bracing for truss signed as an individual build as referenced by the build	dicated, fastened to s system (not part ding component.	to truss TC w/ 2- of this compone the suitability an	design of the 10d nails, nt design) in d use of thi	joint(s) ex is truss. s always r s compon	cept (jt=lb) 24=; equired. ent for any parti	339, 15=596, 12=24 cular building is the	43.	
D CASE(S) Standard	o, r. E. Fronder, E. Elderise	NO. 34009. Addre	rss: 1109 Coasta	al Bay Blvd.	Boynton	Beach, FL 3343			

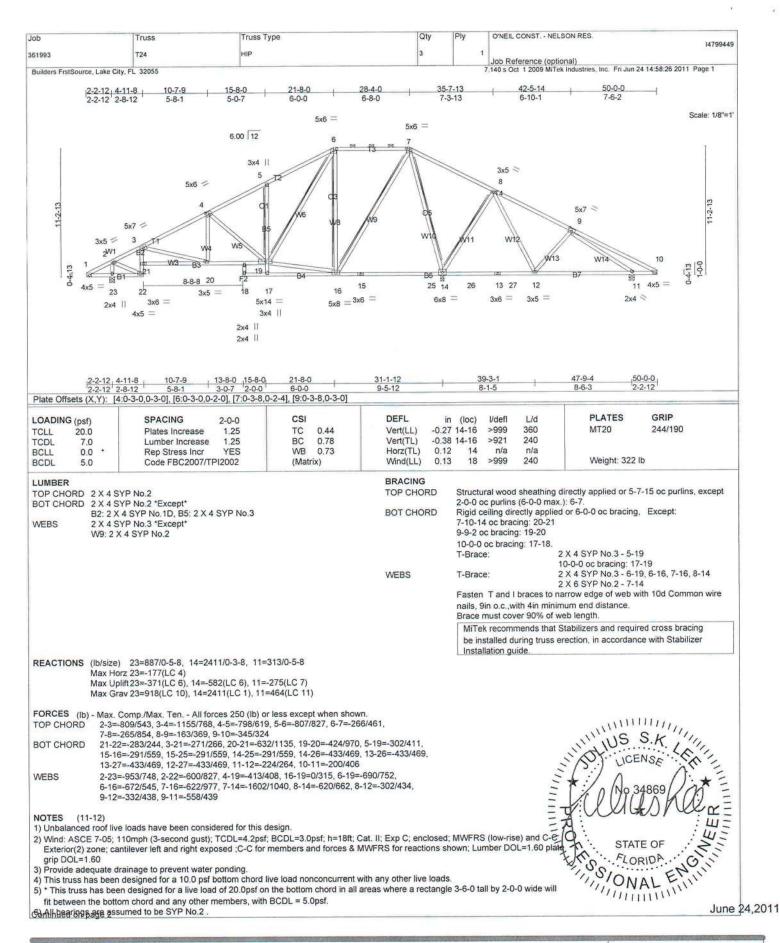


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b	Truss	T	russ Type		Qty	Ply	O'NEIL CONST NELSON RES.	
1993	T23	H	IP		1			147994
uilders FrstSource, La	ke City, FL 32055						Job Reference (optional) 7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24	14 58 25 2011 Page 2
Warning: Additi This manufactu building design	s 4x2 (flat orientation ional permanent and ured product is designer per ANSI TPI 1 a	d stability bracing ned as an individ s referenced by the	acing indicated, fastened for truss system (not par ual building component. he building code. License No. 34869; Add	rt of this component The suitability and	t design) use of th	is always iis compoi	required. nent for any particular building is the respor	
AD CASE(S) S		r E. Honda r .E.	License No. 34005. Add	iless. 1105 Coastal	Day Divi	i. Boynton	1 Beach, FL 33435	
	ten recei a							

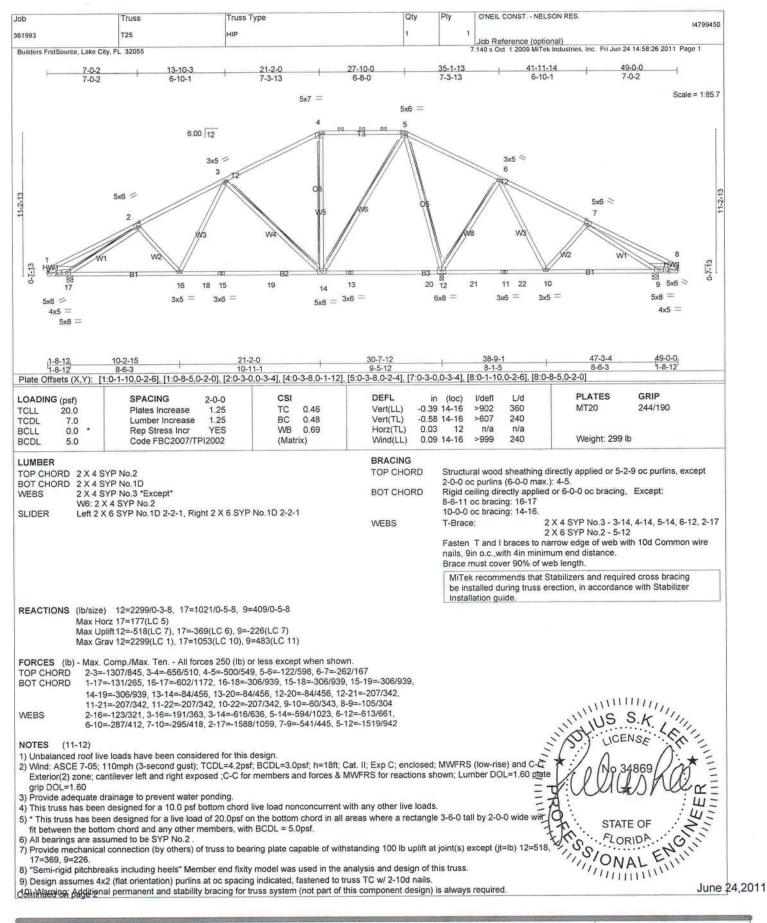


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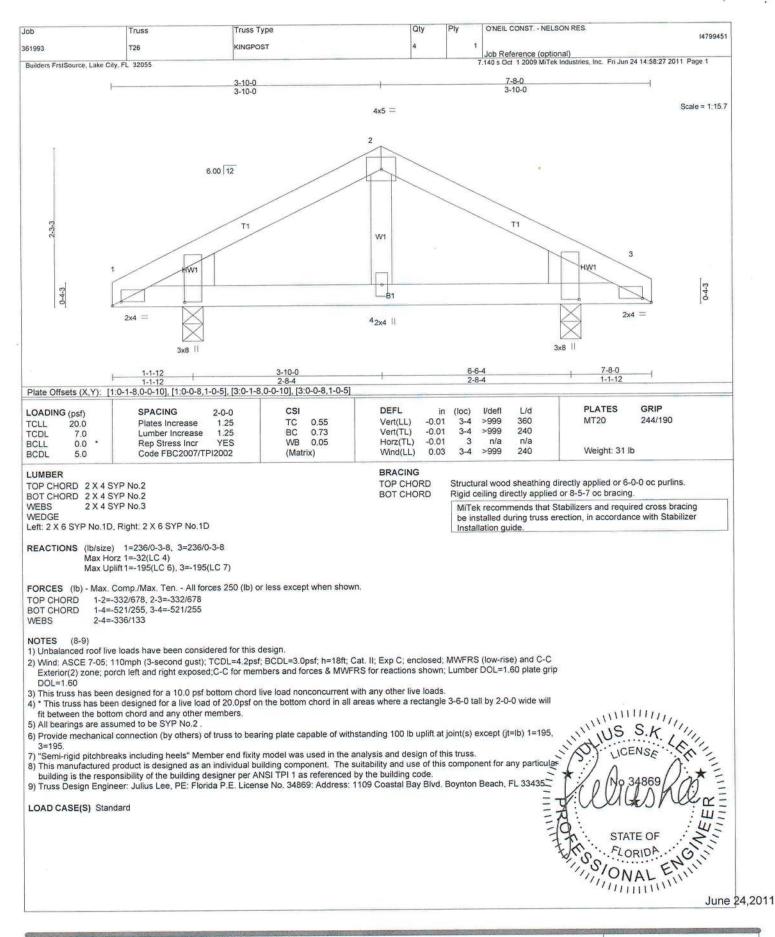
Job	Truss	Truss Type	Qty	Ply	O'NEIL CONST NELSON RES.	
361993	T24	HIP	3	1		14799449
Builders FrstSource, Lake City, F.	32055		(E)		Job Reference (optional)	
NOTES (11-12)		to bearing plate capable of withstanding 100 I	h unlift at i		7.140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24 14:58:26 20	11 Page 2
8) "Semi-rigid pitchbreaks 9) Design assumes 4x2 (fla 10) Warning: Additional pe 11) This manufactured probuilding designer per A	including heels" Member en at orientation) purlins at oc s rmanent and stability bracin duct is designed as an indiv NSI TPI 1 as referenced by	d fixity model was used in the analysis and de pacing indicated, fastened to truss TC w/ 2-11 g for truss system (not part of this component idual building component. The suitability and the building code.	esign of thi Od nails, design) is use of this	is truss. s always r s compon	equired. ent for any particular building is the responsibility of	f the
		E. License No. 34869: Address: 1109 Coastal	Bay Blvd.	Boynton	Beach, FL 33435	
LOAD CASE(S) Standard						
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						1



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 REFORE USE.

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b	Truss	Truss Type	Qty	Ply	O'NEIL CONST NELSON RES.	
1993	T25	HIP	1	1		14799450
uilders FrstSource, Lake City, Fl	L 32055			7	Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Fri Jun 24	14:E9:36 2011 Done 2
This manufactured pro- building designer per A     Truss Design Engineer	duct is designed as an indiv NSI TPI 1 as referenced by ": Julius Lee, PE: Florida P.f	ridual building component. The suitability and the building code. E. License No. 34869: Address: 1109 Coastal		compon	ent for any particular building is the respo	
OAD CASE(S) Standard						



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-1473 BEFORE USE.

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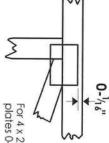
Your Company Name

# Symbols

# PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

\*Plate location details available in MiTek 20/20 software or upon request.

## PLATE SIZE

4 × 4

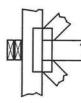
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

# LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

## BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

### Industry Standards: ANSI/TPII: Nationa

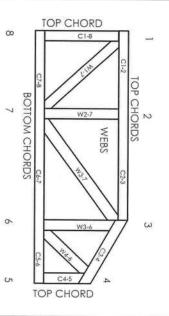
 National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

DSB-89

Building Component Safety Information Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

# PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B, 9730, 95-43, 96-31, 9667A
NER-487, NER-561
95110, 84-32, 96-67, ER-3907, 9432A

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Your Company Information and logo

# General Safety Notes

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSII.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Elminator bracing should be considered.

2

Never exceed the design loading shown and never stack materials on inadequately braced trusses.

w

- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear fightly against each other.

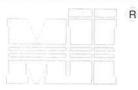
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPLL.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft, spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or after truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all partions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

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b.			
		1 ×	

#### August 10, 2010

#### T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

ST - T-BRACE 2



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Page 1 of 1

Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

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1	Nailing Pattern	
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.

Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

	Brace Size for One-Ply Truss				
	Specified Rows of La	Continuous iteral Bracing			
Web Size	1	2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace	2x6 I-Brace			
2x8	2x8 T-Brace	2x8 I-Brace			

Nails

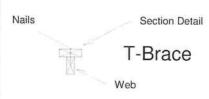
SPACING

T-BRACE

	for Two-Ply Truss					
	Specified Rows of La	Continuous ateral Bracing				
Web Size	1	2				
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace				
2x6	2x6 T-Brace	2x6 I-Brace				
2x8	2x8 T-Brace	2x8 I-Brace				

T-Brace / I-Brace must be same species and grade (or better) as web member.

Brace Size



Nails

Nails

WEB

Web

I-Brace

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1109 COASTAL BAY BOYNTON BC, FL 33435

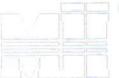
#### TRUSSED VALLEY SET DETAIL

ST-VALLEY HIGH WIND1

R

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Page 1 of 1

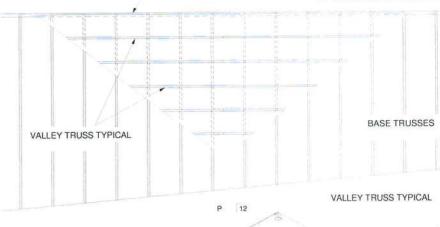


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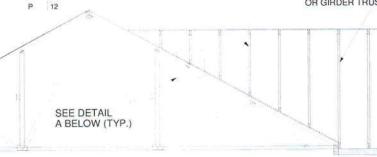
GABLE END, COMMON TRUSS OR GIRDER TRUSS

#### **GENERAL SPECIFICATIONS**

- 1. NAIL SIZE = 3" X 0.131" = 10d
- 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING. 6. NAILING DONE PER NDS - 01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS OR GIRDER TRUSS



SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.

**DETAIL A** (NO SHEATHING) N.T.S.

ATTACH 2x4 CONTINUOUS NO.2 SYP TO THE ROOF W/ TWO USP WS3 (1/4" X 3") WOOD SCREWS INTO EACH BASE TRUSS.

No 34869

No 34869

TO NO 34869

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WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF

ON THE TRUSSES

R

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Page 1 of 1

NOTES: TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.

2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.

3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

	DIAM.	SYP	DF	HF	SPF	SPF-S
O	.131	88.0	80.6	69.9	68.4	59.7
LONG	.135	93.5	85.6	74.2	72.6	63.4
3.5" L	.162	108.8	99.6	86.4	84.5	73.8
LONG	.128	74.2	67.9	58.9	57.6	50.3
0	.131	75.9	69.5	60.3	59.0	51.1
3.25	.148	81.4	74.5	64.6	63.2	52.5

VALUES SHOWN ARE CAPACITY PER TOE-NAIL. APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

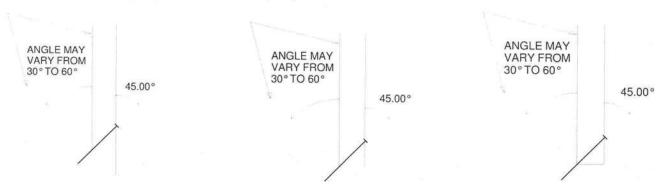
(3) - 16d NAILS (.162" diam. x 3.5") WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15: 3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity



VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY





No 348F IN THE EER 11/11/11/11/11 1109 COASTAL BAY

BOYNTON BC, FL 33435

FEBRUARY 8, 2008

#### LATERAL BRACING RECOMMENDATIONS

ST-STRGBCK

MiTek Industries, Chesterfield, MO

Page 1 of 1

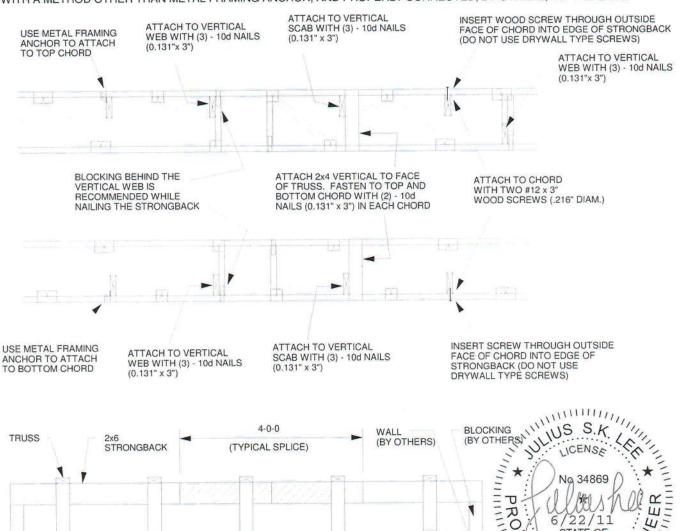


TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

MiTek Industries, Inc.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



THE STRONGBACKS SHALL BE SECURED AT THEIR ENDS TO ADEQUATE SUPPORT DESIGNED BY OTHERS. IF SPLICING IS NECESSARY, USE A 4'-0" LONG SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d NAILS (0.131" x 3") EQUALLY SPACED.

ALTERNATE METHOD OF SPLICING: OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d NAILS (0.131" x 3") STAGGERED AND EQUALLY SPACED. (TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

ENGIN SIONAL ////IIIIIIIII 1109 COASTAL BAY BOYNTON BC, FL 33435

22/11

STATE OF FLORIDA.

#### JANUARY 20, 2011

#### STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

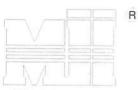
ST-PIGGY

MiTek Industries, Chesterfield, MO

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ASCE 7-02, ASCE 7-05

DURATION OF LOAD INCREASE: 1.60

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.



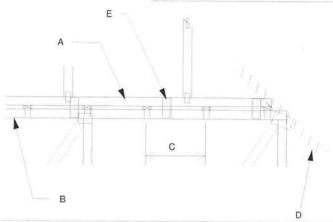
MiTek Industries, Inc.

- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
   SHALL BE CONNECTED TO EACH PURLIN
   WITH (2) 0.131\* X 3.5\* TOE NAILED.
   B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
   C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24\* O.C.
   THE SES SECURIES OF OREST ON METER TRUSS DESIGN DRAWING.
- PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) 0.131" X 3.5" NAILS EACH. -2 X \_\_X 4".0" SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF 0.131" X 3" NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND.
- DIRECTIONS AND:

  1. WIND SPEED OF 90 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR

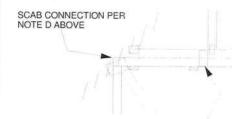
  2. WIND SPEED OF 91 MPH TO 140 MPH WITH A MAXIMUM

  PIGGYBACK SPAN OF 12 It.
- E FOR WIND SPEEDS BETWEEN 101 AND 140 MPH, ATTACH MITEK 3X8 20 GA Naii-On PLATES TO EACH FACE OF TRUSSES AT 72° O.C. W/ (4) 0.131° X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

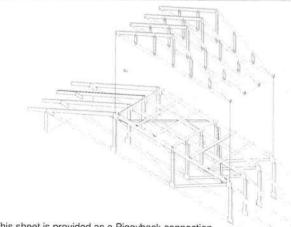


#### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING



FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.





FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

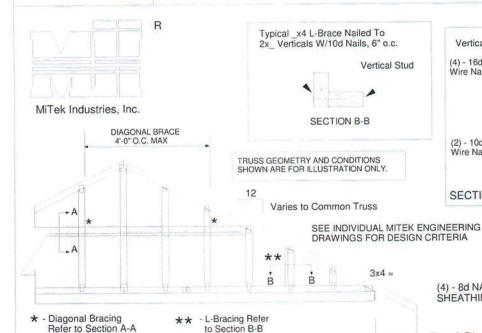
- VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
- ATTACH 2 X \_\_\_ X 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS. FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,
- NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.

No 34869

1109 COASTAL BAY BOYNTON BC, FL 33435

#### Standard Gable End Detail

#### ST-GE120-001



MiTek Industries, Chesterfield, MO Vertical Stud (4) - 16d Common DIAGONAL BRACE Wire Nails 16d Common Wire Nails Spaced 6" o.c. (2) - 10d Common 2x6 Stud or Wire Nails into 2x6 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x Verticals w/(4)-10d Common Nails SECTION A-A 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 100 NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d COMMON WIRE NAILS.

(4) - 8d NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG.

ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT

BRACING OF ROOF SYSTEM.
"L" BRACES SPECIFIED ARE TO BE FULL LENGTH. "GRADES: 1x4 SRB
OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)

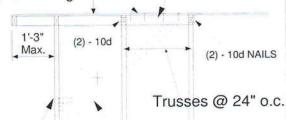
GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.

THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

Roof Sheathing 24" Max

Vertical Stud

3x4 =



Diag. Brace at 1/3 points if needed

End Wall

ATTACHED TO VERTICAL WITH (4) -16d COMMON WIRE NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d COMMONS.

2x6 DIAGONAL BRACE SPACED 48" O.C.

HORIZONTAL BRACE (SEE SECTION A-A)

Minimum Stud Size	Stud Spacing	Without Brace	1x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS				
Species and Grade		Maximum Stud Length							
2x4 SPF Std/Stud	12" O.C.	4-3-2	4-7-6	6-6-5	8-6-3	12-9-6			
2x4 SPF Std/Stud	16" O.C.	3-10-7	4-0-0	5-7-13	7-8-14	11-7-5			
2x4 SPF Std/Stud	24" O.C.	3-2-0	3-3-2	4-7-6	6-4-0	9-6-0			

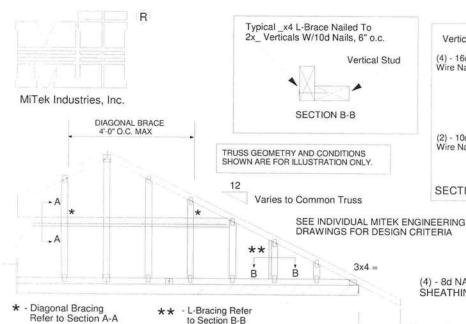
Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d common wire nails 8in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 120 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE: 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.



BOYNTON BC, FL 33435 6/22/11



MiTek Industries, Chesterfield, MO Vertical Stud (4) - 16d Common Wire Nails DIAGONAL BRACE 16d Common Wire Nails Spaced 6" o.c. (2) - 10d Common 2x6 Stud or Wire Nails into 2x6 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Common Nails SECTION A-A 2x4 Stud

> TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d COMMON WIRE NAILS.

PROVIDE 2x4 BLOCKING BETWEEN THE FIRST

(4) - 8d NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

#### NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

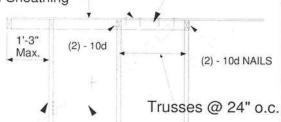
BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY, CONSULT BLDG. BRACING SHOWN IS FOR INDIVIDUAL THUSS CINLY, CONSULT BEDG.
ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT
BRACING OF ROOF SYSTEM.
"L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB
OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF

5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)

GABLE STUD DEFLECTION MEETS OR EXCEEDS L'240.
THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

Roof Sheathing 24" Max



Diag. Brace at 1/3 points if needed

2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d COMMON WIRE NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d COMMONS.

End Wall

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS			
and Grade		Maximum Stud Length							
2x4 SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4			
2x4 SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11			
2x4 SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12			

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d common wire nails 8in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C ASCE 7-98, ASCE 7-02, ASCE 7-05 DURATION OF LOAD INCREASE : 1.60

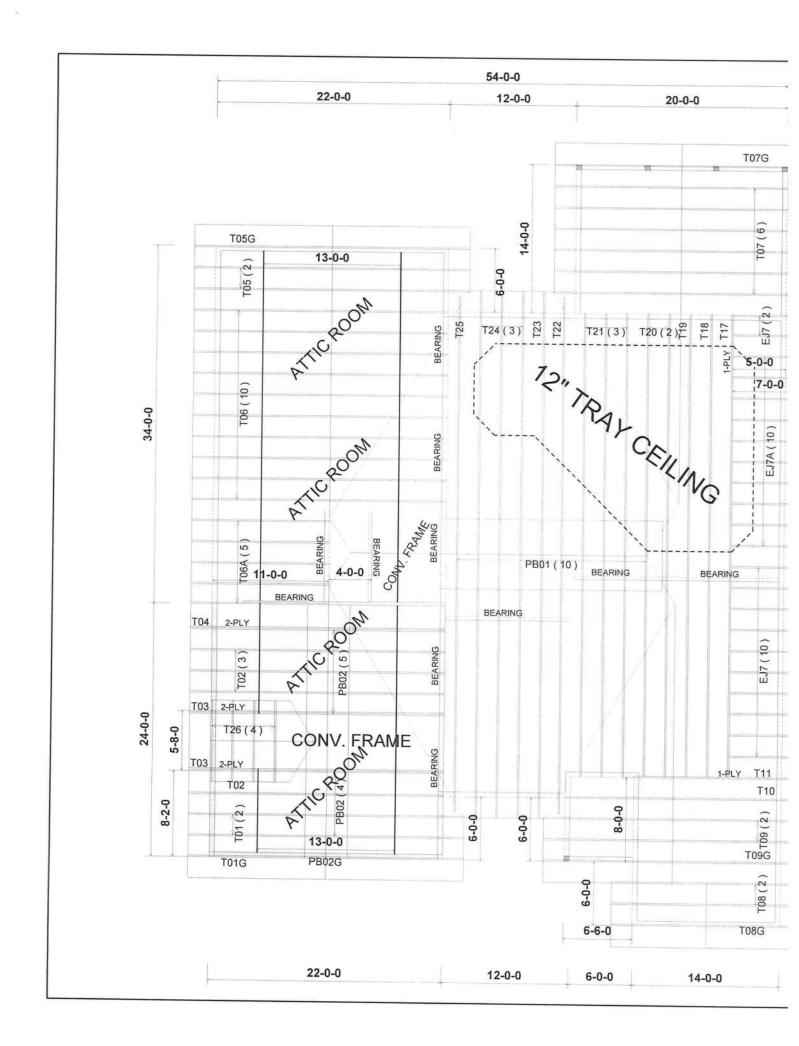
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING. CONNECTION OF BRACING IS BASED ON MWFRS.

HORIZONTAL BRACE (SEE SECTION A-A)

SEE SECTION OF SECTION OF STATE OF STAT MOIN

1109 COASTAL BAY BOYNTON BC, FL 33435

6/22/11



# 6/12 - 10/12 PITCH 24" CANTILEVER

BEARING HEIGHT SCHEDULE

10'-1 1/8"

9'-1 1/8"

#### NOTES:

#### SHOP DRAWING APPROVAL

COURT OF THE CHARGE CARRY CONTROL THE WALL STRUCK



Jacksonville

Lake City

Sanford

O'NEIL CONST.

**NELSON RES.** 

CUSTOM

6-23-11 K.L.H.



#### Load Short Form Entire House

#### LARRY RESMONDO AIR CONDITIONING

Job: NELSON RESIDENCE

Date: Jun 14, 2011

By:

HIGH SPRINGS, FL

#### **Project Information**

For:

O'NEIL CONSTRUCTION HIGH SPRINGS, FL

Design Information								
	Htg	Clg		Infiltration				
Outside db (°F)	33	92	Method	Simplified				
Inside db (°F)	70	75	Construction quality	Semi-loose				
Design TĎ (°F)	37	17	Fireplaces	1 (Semi-tight)				
Daily range `	-	M	, mopilaces	(Germ-tight)				
Inside humidity (%)	30	50						
Moisture difference (gr/lb)	11	52						

#### HEATING EQUIPMENT

8.5 HSPF

46000 Btuh @ 47°F

27 °F

1550 cfm

0.041 cfm/Btuh

0.10 in H2O

#### Make Ruud

Trade RUUD 13PJL SERIES Model 13PJL48

ARI ref no. 3605269

Efficiency Heating input

Heating output Temperature rise Actual air flow Air flow factor Static pressure

Space thermostat

#### COOLING EQUIPMENT

Make Ruud

Trade RUUD 13PJL SERIES

Cond 13PJL48

Coil RHSL-HM4821++RCSL-H\*4821

ARI ref no. 3605269

Efficiency 10.9 EER, 13 SEER

 Sensible cooling
 32550
 Btuh

 Latent cooling
 13950
 Btuh

 Total cooling
 46500
 Btuh

 Actual air flow
 1550
 cfm

 Air flow factor
 0.056
 cfm/Btuh

 Static pressure
 0.10
 in H2O

Load sensible heat ratio 0.81

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
LAUNDRY	71	313	245	13	14
HALL/STAIRWELL	128	322	346	13	19
MASTER BATH	182	2921	1634	119	91
M/BEDROOM	255	5881	3892	240	217
W.I.CLOSET	105	1825	663	75	37
KITCHEN	250	941	4512	38	252
BREAKFAST AREA	144	2537	1762	104	98
DINING	144	3127	1957	128	109
FOYER	120	1785	1410	73	79
BEDROOM 2	203	6193	3193	253	178
HALL	32	53	76	2	4
BATH 2	57	856	326	35	18
BEDROOM 3	176	2406	1851	98	103
GREAT ROOM	500	8750	5894	358 BL	329

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Right-Suite® Universal 8.0.06 RSU09301

A ...awna\Documents\Wrightsoft HVAC\O'\NEIL - COLACINO RESIDENCE.rup Calc = MJ8 Front Door faces:

Code 2011-Jun-29 14:17:26

Receiv

Entire House Other equip loads Equip. @ 0.97 RSM Latent cooling	2366	37911 0	27760 0 26927 6719	1550	1550
TOTALS	2366	37911	33646	1550	1550



### Building Analysis Entire House

LARRY RESMONDO AIR CONDITIONING

Job: NELSON RESIDENCE Date: Jun 14, 2011

Ву:

HIGH SPRINGS, FL

#### **Project Information**

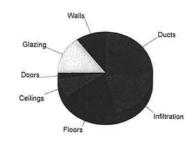
For:

O'NEIL CONSTRUCTION HIGH SPRINGS, FL

		Design Co	onditions		
Location: Gainesville, FL, US Elevation: 151 ft Latitude: 30°N  Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating 33 - 15.0	Cooling 92 19 (M) 77 7.5	Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb) Infiltration: Method Construction quality Fireplaces	Heating 70 37 30 10.6  Simplified Semi-loose 1 (Semi-tight)	75 17 50 52.0

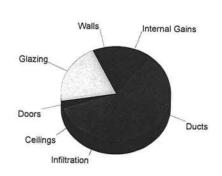
#### Heating

Component	Btuh/ft²	Btuh	% of load
Walls Glazing Doors Ceilings Floors Infiltration Ducts Piping Humidification Ventilation Adjustments Total	1.1 21.2 14.4 1.2 3.0 4.3	3970 5650 909 2802 7154 6784 10642 0 0 0 37911	10.5 14.9 2.4 7.4 18.9 17.9 28.1 0 0



#### Cooling

Component	Btuh/ft <sup>2</sup>	Btuh	% of load
Walls Glazing Doors Ceilings Floors Infiltration Ducts Ventilation Internal gains Blower Adjustments Total	0.5 21.4 11.4 1.4 0 0.9	1979 5711 716 3229 0 1467 11738 0 2920 0 0 27760	7.1 20.6 2.6 11.6 0 5.3 42.3 0 10.5



Latent Cooling Load = 6719 Btuh Overall U-value = 0.121 Btuh/ft²-°F

ERROR: negative wall area in GREAT ROOM - check windows.



### Project Summary Entire House

#### LARRY RESMONDO AIR CONDITIONING

Job: NELSON RESIDENCE Date: Jun 14, 2011

HIGH SPRINGS, FL

#### **Project Information**

For:

O'NEIL CONSTRUCTION HIGH SPRINGS, FL

Notes:

Carata I and the Till Cara	Design In	formation	
	Weather: Gainesvil	le, FL, US	
Winter Desig	ın Conditions	Summer Design C	onditions
Outside db Inside db Design TD	33 °F 70 °F 37 °F	Outside db Inside db Design TD Daily range Relative humidity Moisture difference	92 °F 75 °F 17 °F M 50 % 52 gr/lb
Heating	Summary	Sensible Cooling Equipn	nent Load Sizing
Structure Ducts Central vent (0 cfm) Humidification Piping	27269 Btuh 10642 Btuh 0 Btuh 0 Btuh 0 Btuh	Structure Ducts Central vent (0 cfm) Blower	16023 Btuh 11738 Btuh 0 Btuh 0 Btuh
Equipment load	37911 Btuh ration	Use manufacturer's data Rate/swing multiplier Equipment sensible load	n 0.97 26927 Btuh
Method Construction quality	Simplified Semi-loose	Latent Cooling Equipme	ent Load Sizing
Fireplaces  Area (ft²) Volume (ft³)	1 (Semi-tight)  Heating Cooling 2366 2366 18930 18930	Structure Ducts Central vent (0 cfm) Equipment latent load	3573 Btuh 3146 Btuh 0 Btuh 6719 Btuh
Air changes/hour Equiv. AVF (cfm)	0.53 0.25 168 79	Equipment total load Req. total capacity at 0.70 SHR	33646 Btuh 3.2 ton
Heating Equip	ment Summary	Cooling Equipment	Summary
Make Ruud Trade RUUD 13P, Model 13PJL48 ARI ref no. 3605269	JL SERIES	Make Ruud Trade RUUD 13PJL SERIE Cond 13PJL48 Coil RHSL-HM4821++RO	
Efficiency Heating input Heating output Temperature rise Actual air flow Air flow factor Static pressure Space thermostat	8.5 HSPF 46000 Btuh @ 47°F 27 °F 1550 cfm 0.041 cfm/Btuh 0.10 in H2O	ARI ref no. 3605269 Efficiency 10.9 EER, Sensible cooling Latent cooling Total cooling Actual air flow Air flow factor Static pressure Load sensible heat ratio	

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Load sensible heat ratio



Space thermostat

wrightsoft Right-Suite® Universal 8.0.06 RSU09301

2011-Jun-29 14:17:27

0.81

#### wrightsoft Duct System Summary Entire House

LARRY RESMONDO AIR CONDITIONING

Job: NELSON RESIDENCE Date: Jun 14, 2011

HIGH SPRINGS, FL

#### **Project Information**

For:

O'NEIL CONSTRUCTION HIGH SPRINGS, FL

Heating Cooling External static pressure 0.10 in H2O 0.10 in H2O Pressure losses 0.25 in H2O 0.25 in H2O Available static pressure -0.2 in H2O -0.2 in H2O Supply / return available pressure -0.11 / -0.04 in H2O -0.11 / -0.04 in H2O Lowest friction rate 0.100 in/100ft 0.100 in/100ft Actual air flow 1550 cfm 1550 cfm Total effective length (TEL)

320 ft

#### Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
LAUNDRY	С	245	13	14	0.100	4.0	0x 0	VIFx	240.0	0	st1
HALL/STAIRWELL	C	346	13	19	0.100	4.0	0x 0	VIFx	240.0	i ŏ	st1
MASTER BATH	h	2921	119	91	0.100	7.0	0×0	VIFx	240.0	Ĭŏ	st1
M/BEDROOM	h	5881	240	217	0.100	9.0	0x0	VIFx	240.0	i o	st1
W.I.CLOSET	h	1825	75	37	0.100	5.0	0×0	VIFx	240.0	l ŏ	st1
KITCHEN-A	С	2256	19	126	0.100	7.0	0x 0	VIFx	240.0	Ö	st1
KITCHEN	C	2256	19	126	0.100	7.0	0x0	VIFx	240.0	Ŏ	st1
BREAKFASTAREA	h	2537	104	98	0.100	6.0	0x0	VIFx	240.0	Ö	st1
DINING	h	3127	128	109	0.100	7.0	0x 0	VIFx	240.0	ŏ	st1
FOYER	C	1410	73	79	0.100	6.0	0x 0	VIFx	240.0	Ö	st1
BEDROOM 2	h	6193	253	178	0.100	9.0	0x0	VIFx	240.0	Ŏ	st1A
HALL	C	76	2	4	0.100	4.0	0x0	VIFx	240.0	Ö	st1A
BATH 2	h	856	35	18	0.100	4.0	0x0	VIFx	240.0	ŏ	st1A
BEDROOM3	C	1851	98	103	0.100	6.0	0x0	VIFx	240.0	Ö	st1A
GREAT ROOM-A	h	4375	179	165	0.100	8.0	0x0	VIFx	240.0	ŏ	st1B
GREATROOM	h	4375	179	165	0.100	8.0	0x0	VIFx	240.0	ő	st1B

#### **Supply Trunk Detail Table**

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1 st1A st1B	Peak AVF Peak AVF Peak AVF	1550 746 358	1550 633 329	0.100 0.100 0.100	877 810 455	18.0 13.0 12.0	0 x 0 0 x 0 0 x 0	RectFbg RectFbg RectFbg	st1 st1A

Bold/italic values have been manually overridden

#### Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x V (in)	٧	Stud/Joist Opening (in)	Duct Matl	Trunk
rb2 rb3 rb4 rb5	0x 0 0x 0 0x 0 0x 0	240 253 98 358	217 178 103 329	80.0 80.0 80.0 80.0	0.100 0.100 0.100 0.100	573 526	9.0 9.0 6.0 10.0	0x 0x 0x 0x	0 0 0		VIFx VIFx VIFx VIFx	

#### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name: O'NEIL - NELSON RESIDENCE Builder Name: O'NEIL CONSTRUCTION Street: Permit Office: COLUMBIA COUNTY City, State, Zip: , FL, Permit Number: Owner: **NELSON** Jurisdiction: Design Location: FL, Gainesville 1. New construction or existing New (From Plans) 9. Wall Types (4040.3 sqft.) Insulation Area 2. Single family or multiple family a. Frame - Wood, Exterior Single-family R=5.0 2132.30 ft<sup>2</sup> b. Frame - Wood, Exterior 3. Number of units, if multiple family R=19.0 1908.00 ft2 c. N/A 4. Number of Bedrooms 3 d. N/A R= 5. Is this a worst case? No 10. Ceiling Types (2366.2 sqft.) Insulation Area 6. Conditioned floor area (ft²) a. Under Attic (Vented) 2366 R=30.0 2366.20 ft<sup>2</sup> b. N/A 7. Windows(231.0 sqft.) R= Description Area c. N/A a. U-Factor: Dbl. default R= 214.00 ft<sup>2</sup> SHGC: Tinted, default 11. Ducts b. U-Factor: Gbl. default a. Sup: Attic Ret: Attic AH: Garage Sup. R= 6, 280 ft2 17.00 ft<sup>2</sup> SHGC: Clear, default 12. Cooling systems c. U-Factor: N/A ft2 a. Central Unit Cap: 48.0 kBtu/hr SHGC: SEER: 13 d. U-Factor: N/A ft2 13. Heating systems SHGC: a. Electric Heat Pump e. U-Factor: N/A Cap: 48.0 kBtu/hr ft2 SHGC: HSPF: 8.5 14. Hot water systems 8. Floor Types (2366.2 sqft.) Insulation Area a. Electric a. Slab-On-Grade Edge Insulation Cap: 40 gallons R=5.0 2366.20 ft<sup>2</sup> b. N/A EF: 0.93 R= ft2 b. Conservation features c. N/A R= ft2 None 15. Credits Total As-Built Modified Loads: 50.11 Glass/Floor Area: 0.098 PASS Total Baseline Loads: 58.85 I hereby certify that the plans and specifications covered by Review of the plans and this calculation are in compliance with the Florida Energy specifications covered by this

PREPARED BY: Farry Resmondo a/c
DATE: June 28/2011

DATE:

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

OWNER/AGENT:

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:



ff2

ft2

ft2

None



Page 1 of 5

						PROJ	JECT							
Owner # of Ur Builder Permit Jurisdi Family	nits: r Name: Office: ction: Type: xisting:	FLAsBuilt NELSON 1 O'NEIL CO	ONSTRUCTIO A COUNTY	) V V V ON F	Bedrooms Conditions Fotal Stori Vorst Cas Rotate And Cross Ven Vhole Hou	ed Area: les: se: gle: tilation;	3 2366 1 No 0 No No	5		Lot # Block/s PlatBo Street: County		n:	t Addres	s
						CLIM	ATE							
$\checkmark$	1000	ign Location		TMY Site	IEC Zor		Design 7.5 %	Temp 2.5 %	Int Desig Winter		Heati Degree		Design Moisture	Daily Tem Range
	FL,	Gainesville	FL_GAII	NESVILLE_RE	GI :	2	32	92	75	70	1305	5.5	51	Mediun
						FLOO	RS							
$\checkmark$	#	Floor Type		Perir	meter	F	R-Value	9	Area			Tile	Mood	Carpet
	1	Slab-On-Grad	de Edge Insula	atio 195	.5 ft		5	2	366.2 ft²			0	0	1
						ROO	F							
<b>V</b>	#	Туре	Ma	aterials	Roof Area	Gabl Area		Roof Color	Solar Absor.	Tested	Deck Insul.	Pitc	h	
7	1	Gable or She	d Composi	tion shingles	2493 ft²	394 ft	² I	Medium	0.5	N	0	18.4 d	eg	
						ATTI	С							
$\sqrt{}$	#	Туре		Ventilation		Vent Rati	o (1 in)	А	rea	RBS	IRCC			
_	1	Full attic		Vented		300	)	236	66 ft²	N	N			
						CEILIN	NG							
$\checkmark$	#	Ceiling Type	9		R-	Value		Area		Framin	g Frac		Truss Typ	ne -
_	1	Under Attic	(Vented)		-	30		2366.2 ft	2	0.			Wood	
						WALL	.s							
/	#	Ornt ,	Adjacent To	Wall Type				Cavity R-Value	Area	Shea R-V	thing alue	Framing Fraction		Solar Ibsor.
	1	N	Exterior	Frame - Woo	d			19	1563.75		0.6	0.25		0.8
	2	-	Exterior	Frame - Woo	d			5	2132.25		0	0.25		0.8
	3		Exterior	Frame - Wood							-			0.0

2 4 4 4

\*

						DC	OORS						
$\vee$	#	Or	nt	Door Type				Storn	ns	U	-Value	Area	
	1	1	l	Wood				Non	е		0.39	21.11111	
	2	-		Wood				None	е		0.39	42 ft²	
												7211	
					Orientation	WIN shown is the	DOWS entered,	asBuilt or	ientation	l.			
$\checkmark$	#	Ornt	Frame	Panes	NFRO	UEssta	CHOO	0.	1021		rhang		
	1	N		Double (Tinted	333000000000000000000000000000000000000			Storms	Area	0.0000000000000000000000000000000000000	Separation	Int Shade	Scree
	2	N	Vinyl	Double (Tinted		0.87	0.55	N	144 ft²	1 ft 6 in	1 ft 0 in	HERS 2006	Nor
	3	N	Vinyl	Double (Tinted	20	0.87	0.55	N	54 ft <sup>2</sup>	14 ft 0 in	1 ft 0 in	HERS 2006	Nor
	4	N		Glazed Block	5V	0.87	0.55	N	16 ft²	8 ft 0 in	1 ft 0 in	HERS 2006	Nor
			vy.	Clazed Block	No	0.6	0.6	N	17 ft²	1 ft 6 in	1 ft 0 in	HERS 2006	Nor
					IN	FILTRATIC	N & V	ENTING					
/	Method	d		SLA	CFM 50	ACH FO	<b>51.</b>				Ventilation		Fai
				ALCOHOLOGO OF SHARE	CFIVI 50	ACH 50	ELA	EqLA	S	upply CFM	Exhaust CFM	Fraction	Wat
	Defaul			0.00036	2234	7.08	122.7	230.7	C	) cfm	0 cfm	0	0
						GAF	RAGE						
	#	Floo	or Area	Ceilir	ng Area	Exposed V	Vall Perir	meter	Avg. W	all Height	Exposed	Wall Insulation	
_	1	38	2.8 ft²	382	.8 ft²	6	64 ft		The same of the sa	ft		1	
						COOLING	SYST	EM					
/	#	System 7	Гуре	S	ubtype		F	fficiency		Capacity	Air Flow	CUID	
	1	Central L	Jnit	0.00	one			SEER: 13	2000	kBtu/hr	1440 cfm		Duct
_										KBta/III	1440 CIII	0.6	sys#
7	-					HEATING	SYST	EM					
	#	System 7			ubtype		E	fficiency	(	Capacity	Ducts		
	1	Electric F	leat Pump	N	one		Н	SPF: 8.5	48	8 kBtu/hr	sys#1		
					I	HOT WATE	R SYS	TEM					
/	#	System	Туре			EF	Сар	- (	Jse	SetPnt		Conservation	_
_	1	Electric				0.93	40 gal		gal gal	120 deg		None	
					SOLA	AR HOT W	ATER S	SYSTEM	1			100 10000000	
	FSEC									C	ollector S	Storage	
	Cert #	Comp	any Name	9		System Mode	el #	Colle	ctor Mod				EF
	None	None									ft²		

							DUCTS							
$\checkmark$	#		pply R-Value Are	a l	Ri Location	eturn n Area	Leaka	ige Type	Air Handler	CFM	25	Percen Leakage		RLF
	1	Attic	6 280 f	t²	Attic	120 ft²	Default	Leakage	Garage	(Defa	ult)	(Default)		51.80-1
						TEM	PERATU	RES						
Program	able Therr	nostat: N			C	Ceiling Fan:	s:							
Cooling Heating Venting	[X] Jan [X] Jan [X] Jan	[X] Feb [X] Feb [X] Feb	[X] Mar [X] Mar [X] Mar	$\begin{bmatrix} X \\ X \end{bmatrix}$	Apr Apr Apr	[X] May [X] May [X] May	[X] Jun [X] Jun [X] Jun	X) Jul X) Jul X) Jul	[X] Aug [X] Aug [X] Aug	[X] Ser [X] Ser [X] Ser		[X] Oct [X] Oct [X] Oct	[X] Nov [X] Nov [X] Nov	[X] Dec [X] Dec [X] Dec
Thermosta		HERS 20	006 Reference	9				Hou	I for the process	[11] 00]		[X] OCI	[\]	[v] Dec
Schedule T	ype		2. 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (W	D)	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 (W	EH)	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 (W	D)	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 (W	EH)	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	
ADDRESS:	PERMIT #:
, FL,	I LINWIT #.

#### INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	OUTOU
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	CHECK
Exterior & Adjacent Walls	N1106.AB.1.2	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	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	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	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	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 N1112.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.

, , FL,

<ol> <li>3.</li> <li>4.</li> </ol>	New construction or exi Single family or multiple Number of units, if multi Number of Bedrooms	family		(From Plans) e-family	<ol> <li>Wall Types</li> <li>a. Frame - Wood, Exterior</li> <li>b. Frame - Wood, Exterior</li> <li>c. N/A</li> <li>d. N/A</li> </ol>	Insulation R=5.0 R=19.0 R= R=	Area 2132.30 ft² 1908.00 ft² ft²
6.	Is this a worst case?  Conditioned floor area (	ft²)	No 2366		10. Ceiling Types a. Under Attic (Vented)	Insulation R=30.0	1
7.	Windows** a. U-Factor: SHGC:	Description Dbl, default Tinted, default		Area 214.00 ft²	b. N/A c. N/A 11. Ducts	R= R=	ft² ft²
	b. U-Factor: SHGC: c. U-Factor:	Gbl, default Clear, default N/A		17.00 ft²	<ul><li>a. Sup: Attic Ret: Attic AH: Garage</li><li>12. Cooling systems</li></ul>	Sup. R= 6, 28	0 ft²
	SHGC: d. U-Factor:	N/A		ft² ft²	a. Central Unit	Cap: 4	48.0 kBtu/hr SEER: 13
	SHGC: e. U-Factor: SHGC:	N/A		ft²	<ol> <li>Heating systems</li> <li>Electric Heat Pump</li> </ol>	Cap: 4	48.0 kBtu/hr HSPF: 8.5
	Floor Types a. Slab-On-Grade Edge I b. N/A c. N/A	nsulation	Insulation R=5.0 R= R=	Area 2366.20 ft² ft² ft²	Hot water systems     a. Electric      Conservation features     None	Сар	: 40 gallons EF: 0.93
					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.

