DATE 10/06/2005 <b>Colum</b>	bia County Buildi	ng Permit	<b>PERMIT</b>
	mit Expires One Year From th		000023690
APPLICANT NORA TERRY		PHONE 754-5810	
ADDRESS 291 SW SISTERS WE			FL 32025
OWNER LINNIE JORDAN		PHONE 752-8874	_
ADDRESS 7443 US 90 WEST	LAKE CIT		FL 32055
CONTRACTOR BLAKE CONSTRUCTION		PHONE 754-5810	<u></u>
LOCATION OF PROPERTY 90W, 4 M	MILES WEST OF I-75 ON RIGHT		
TYPE DEVELOPMENT CLASSROOMS	/LIBRARY ESTIMATED CC	OST OF CONSTRUCTION	100000.00
HEATED FLOOR AREA 3043.00	TOTAL AREA	HEIGHT	.00 STORIES 1
FOUNDATION CONC WA	LLS FRAMED ROOF PITCH		LOOR SLAB
LAND USE & ZONING A-3		MAX. HEIGHT	26
Minimum Set Back Requirments: STREET	T-FRONT 30.00	REAR 25.00	SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE	X DEVELOPM	ENT PERMIT NO.	
PARCEL ID 30-3S-16-02398-202	SUBDIVISION		
LOT BLOCK PHASE	UNIT	TOTAL ACRES	
Culvert Permit No. Culvert Waiver  FDOT 05-0643-N  Driveway Connection Septic Tank Number  COMMENTS: ONE FOOT ABOVE THE ROA		Applicant/Owner Approved for Issuand	N
SE 0429, ALTERNATE TERMIT TREATMENT		D VERBALLI BI JH,	
	, resource to	Check # or C	ash 4296
FOR DI	III DINIO O ZONINIO DED CO	-5 Adm Res Service and Misser Control of Service Servi	4311
Temporary Power	JILDING & ZONING DEPART Foundation	Monolithic	(footer/Slab)
date/app. by	date/app. by		date/app. by
Under slab rough-in plumbing	Slab	Sheathing/	Nailing
date/ap	pp. by date/app	. by	date/app. by
Framing date/app. by	Rough-in plumbing above slab and be	elow wood floor	1
Electrical rough-in	_ Heat & Air Duct		date/app. by
date/app. by	date/app. b	Peri. beam (Linte	date/app. by
Permanent power	C.O. Final	Culvert	
date/app. by  M/H tie downs, blocking, electricity and plumbing		Pool	date/app. by
Reconnection	date/app. by	——————————————————————————————————————	date/app. by
date/app. by	Pump pole date/app. by	Utility Pole date/app. by	<del>,</del>
M/H Pole Tra	date/app. by	Re-roof	date/app. by
	date/app. by		чанеларр. бу
BUILDING PERMIT FEE \$ 500.00	CERTIFICATION FEE \$ .00	SURCHARGE	FEE\$
MISC. FEES \$ ZONING			
,	CERT. FEE \$ 50.00 FIRE FEE	\$00 WAST	E FEE \$
FLOOD DEVELOPMENT FEE \$ FLO	CERT. FEE \$ 50.00 FIRE FEE  OD ZONE FEE \$ 25.00 CULVER		AL FEE 575.00
FLOOD DEVELOPMENT FEE S FLO INSPECTORS OFFICE / E	,	T FEE \$TOT	

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

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

# This Permit Must Be Prominently Posted on Premises During Construction

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

# ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

EnergyGauge FlaCom v1.22 FORM 400A-2001

Whole Building Performance Method for Commercial Buildings

Jurisdiction: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

Short Desc: 504223A

Project: Edward L. Tabol Memorial Library

Owner:

Address:

US 90 W

City: Lake City

State: Florida

PermitNo: 0

Storeys:

**Zip:** 0

Type: Assembly

Class: New Finished building

GrossArea: 2755

Net Area: 2755

Max Tonnage: 9 (if different, write in)

Compliance Summary						
Component	Design	Criteria	Result			
Gross Energy Use	99.97	100.00	PASSES			
Other Envelope Requirements - A			<b>PASSES</b>			
LIGHTING CONTROLS			PASSES			
EXTERNAL LIGHTING			<b>PASSES</b>			
HVAC SYSTEM			<b>PASSES</b>			
PLANT			<b>PASSES</b>			
WATER HEATING SYSTEMS			<b>PASSES</b>			
PIPING SYSTEMS			<b>PASSES</b>			
Met all required compliance from Check List?			Yes/No/NA			

IMPORTANT NOTE: An input report Print-Out from EnergyGauge FlaCom of this design building must be submitted along with this Compliance Report.



EnergyGauge FlaCom FLCCSB v1.22

# **COMPLIANCE CERTIFICATION:**

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Efficiency Code.  PREPARED BY: Mark Disosway	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S.  BUILDING OFFICIAL:
DATE: 07SEPOS/	DATE:
I hereby certify that this building is in compliance with the Florida Energy Efficiency Code.	
OWNER AGENT:	
DATE:	
If required by Florida law, I hereby certify (*) compliance with the Florida Energy Code.	that the system design is in REGISTRATION No.
ARCHITECT:	
ELECTRICAL SYSTEM DESIGNER:	
LIGHTING SYSTEM DESIGNER:	
MECHANICAL SYSTEM DESIGNER:	
PLUMBING SYSTEM DESIGNER:	

(\*) Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Project: 504223A

Title: Edward L. Tabol Memorial Library

Type: Assembly
Location: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)
(WEA File: JACKSON

# Whole Building Compliance

	Design	Reference
otal	99.97	100.00
ELECTRICITY	99.97	100.00
AREA LIGHTS	22.38	17.92
MISC EQUIPMT	4.73	4.73
PUMPS & MISC		
SPACE COOL	18.44	21.86
SPACE HEAT	4.73	5.80
VENT FANS	49.68	49.68
its & Penalties (if any): Modified Poi	nts: = 99.97	PASSES

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Project: 504223A Title: Edward L. Tabol Memorial Library

Type: Assembly Location: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

(WEA File: JACKSON

# Other Envelope Requirements

Item	Zone	Description	Design	Limit	Meet Req.
Pr0Zo1Rf1	1St Floor	Exterior Roof - Max Uo Limit	0.03	0.09	Yes
Meets Oth	er Envelope	Requirements			

Project: 504223A

Title: Edward L. Tabol Memorial Library

Type: Assembly

Location: COLUMBIA COUNTY, COLUMBIA COUNTY,

FL (221000) (WEA File: JACKSON

Description	Category	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)		CLP (W)
Ext Light 1	Entrance (without Canopy)	30.00	12.0	360	400
Ext Light 2	Entrance (w/ Canopy) Light traffic-hospital, office, school etc	4.00	144.0	576	300
Ext Light 3	Building Exterior Surfaces/facades	0.25	1,200.0	300	400

Design: 1100 (W) Allowance: 1236 (W) **PASSES** 

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Project: 504223A

Title: Edward L. Tabol Memorial Library

Type: Assembly

Location: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

(WEA File: JACKSON

Lighting	<b>Controls</b>	Complian	ce
	COME ON	COMPARENT	

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compli- ance
PE Room	26	Offices (Partitions>4.5 ft below ceiling) Enclosed offices, all open plan offices without partitions	265	0	3	1	PASSES
Stor	47	Storage & Warehouse - Material Handling	71	1	2	2	PASSES
Area a-b	3	Classroom/Lecture Hall	774	1	8	4	PASSES
Hall	21	Lobby (General) - Reception and Waiting	382	1	4	2	PASSES
Bath Room X2	13	Toilet and Washroom	77	1	2	2	PASSES
Office		Offices (Partitions>4.5 ft below ceiling) Enclosed offices, all open plan offices without partitions	250	0	3		PASSES
Bath #2	13	Toilet and Washroom	30	1	1	1	PASSES
Stor 2		Storage & Warehouse - Material Handling	55	1	1		PASSES

**PASSES** 

Project: 504223A

Title: Edward L. Tabol Memorial Library

Type: Assembly

Location: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

(WEA File: JACKSON

# **System Report Compliance**

Pr0Sy1 System 1

Constant Volume Packaged System No. of Units

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Cooled 65000 to 135000 Btu/h Cooling Capacity		11.00	8.90	8.30	8.30	PASSES
Heating System	Air Cooled HP 65000 to 135000 Btu/h Clg Cap		3.00	3.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.80			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0.80	0.80			PASSES
Air Distribution System	ADS System		6.00	6.00			PASSES

PASSES

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EnergyGauge FlaCom FLCCSB v1.22

**Plant Compliance** Description Installed Size Design Min Design Min Category Comp No Eff **IPLV IPLV** liance None

Project: 504223A

Title: Edward L. Tabol Memorial Library

Type: Assembly

Location: COLUMBIA COUNTY, COLUMBIA COUNTY,

FL (221000)

(WEA File: JACKSON

Water Heater	Compliance
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Description	Туре	Category	Design Eff	Min Eff	Design Loss	Comp liance
Water Heater 1	Storage Water Heater - Electric	<=120 [gal] & <= 12 [kW]	0.88	0.88		PASSES

**PASSES** 

Project: 504223A

Title: Edward L. Tabol Memorial Library

Type: Assembly
Location: COLUMBIA COUNTY

Piping	System	Comp	liance
--------	--------	------	--------

	Piping System Compliance							
Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]		Ins Thick [in]		Compliance	
Heating System (Steam, Steam Condensate, & Hot Water)	0.75	True	105.00	0.28	0.70	0.63	PASSES	

PASSES

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Project: 504223A
Title: Edward L. Tabol Memorial Library
Type: Assembly

Location: COLUMBIA COUNTY

# Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Infiltration	406.1	Infiltration Criteria have been met	П
System	407.1	HVAC Load sizing has been performed	Ħ
Ventilation	409.1	Ventilation criteria have been met	Ħ
ADS	410.1	Duct sizing and Design have been performed	H
T & B	410.1	Testing and Balancing will be performed	H
Electrical	413.1	Metering criteria have been met	H
Motors	414.1	Motor efficiency criteria have been met	Ħ
Lighting	415.1	Lighting criteria have been met	Ħ
O & M	102.1	Operation/maintenance manual will be provided to owner	H
Roof/Ceil	404.1	R-19 for Roof Deck with supply plenums beneath it	H
Report	101	Input Report Print-Out from EnergyGauge FlaCom attached?	H

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# ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs EnergyGauge FlaCom v1.22

# INPUT DATA REPORT

# **Project Information**

Project Name: 504223A

Orientation: SouthEast

Project Title: Edward L. Tabol Memorial Library

Building Type: Assembly

Address: US 90 W

Building Classification: New Finished building

State: Florida

No.of Storeys: 1

Zip: 0

Owner:

GrossArea: 2755

				Zones				
No	Acronym	Description	Туре	Load Profile	Area [sf]	Multiplier	Total Area [sf]	
1	1St Floor	Main Floor area	CONDITIONED	Uses Building Load Profile	2754.7	1	2754.7	

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			Sp	aces						
No	Acronym	Description	Туре	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]	
Zone	: 1St Floor PE Room		0.00 m =================================			ramera	V.	Variable and	90500476968	
*	PE KOOM	p. e. equip. room (both)	Offices (Partitions>4.5 ft below ceiling) Enclosed offices, all open plan offices without partitions	16.00	16.56	9.00	1	265.0	2384.6	
2	Stor	Storage area (both)	Storage & Warehouse - Material Handling	16.00	4.42	9.00	1	70.7	635.9	
3	Area a-b	Area A and B	Classroom/Lecture Hall	30.00	25.80	9.00	2	1548.0	13932.0	
4	Hall	Foyer	Lobby (General) - Reception and Waiting	46.00	8.30	9.00	1	381.8	3436.2	
5	Bath Room X	Bath rooms	Toilet and Washroom	7.50	10.30	9.00	2	154.5	1390.5	
6	Office	Zo1Sp8	Offices (Partitions>4.5 ft below ceiling) Enclosed offices, all open plan offices without partitions	15.66	16.00	9.00	1	250.5	2254.5	
7	Bath #2	Zo1Sp9	Toilet and Washroom	5.30	5.60	9.00	1	29.7	267.1	
8	Stor 2	Zo1Sp10	Storage & Warehouse - Material Handling	10.30	5.30	9.00	1	54.6	491.3	
			Li	ghting						
	No	Туре		Powe [W]		Contr	ol Type		No.of Ctrl pts	
Zone:										
In	Space: PER	Incandescent		80.	00	Manu	al On/Of	f	1	
	2	Suspended Fluorescen	t	320	00	Manu	al Steppe	d-3 Level	1	
In	Space: Stor	Incandescent		80.	00	Manu	al Stanna	d-3 Level	1	

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		100												
	In Space:	Area	a-b Suspended Fluorescer	nt				1920.00	Manu	ual Stepped-3	Level		2	
	In Space:	Hall 1	Suspended Fluorescen	nt				960.00	Mani	ial Stepped-3	Level		2	
	In Space:	Rath	Room X2							stepped s	De lei		-	
	. 62	1	Incandescent					40.00	Exce	ption for One	fixture or ba	llast	1	
	In Space:	Offic												
		1	Incandescent					80.00	Manu	ial On/Off			1	
		2	Suspended Fluorescer	nt				320.00	Manu	al Stepped-3	Level		1	
	In Space:	Bath	#2											
		1	Incandescent					40.00	Exce	ption for One	fixture or bal	llast	1	
	In Space:	Stor :	Incandescent					40.00	Even	ption for One	firtura or hul	llast		
							Walls							
No	Descript	tion	Туре		Width [ft]	H (Effec) [ft]	//testablesic	Area [sf]		onductance stu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Bt	
	Zone:	1St	Floor	D-4@16"	[ft]	[ft]	Multi plier	Area [sf]	(B	stu/hr. sf. F]	Capacity [Btu/sf.F]	[lb/cf]	[h.sf.F/Bt	u]
		1St	Floor 4" Brick /2 oc+R13Bat				Multi	Area			Capacity			u]
In Z	Zone:	1St /a1	Floor  4" Brick /2 oc+R13Bat Gyp 4" Brick /2	t/0.5" 2x4@16"	[ft]	[ft]	Multi plier	Area [sf]	(B	0.0672	Capacity [Btu/sf.F]	[lb/cf]	[h.sf.F/Bt	u]
In Z	Zone: Pr0Zo1W	1St /a1	Floor  4" Brick /2 oc+R13Bat Gyp	t/0.5" 2x4@16"	[ft] 60.00	9.00	Multi plier	Area [sf] 540.0	SouthEast	0.0672	Capacity [Btu/sf.F] 8.8274	[lb/ef]	[h.sf.F/Bt	u)
In Z	Zone: Pr0Zo1W	1St /a1	Floor  4" Brick /2 oc+R13Bat Gyp  4" Brick /2 oc+R13Bat	tt/0.5" 2x4@16" tt/0.5" 2x4@16"	[ft] 60.00	9.00	Multi plier	Area [sf] 540.0	SouthEast	0.0672	Capacity [Btu/sf.F] 8.8274	[lb/ef]	[h.sf.F/Bt	u)

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					Windo	ws						
	No	Description	Type	Shaded	UCen [Btu/hr sf F	sc	Vis.Tr	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]	
	St Floo											
In Wall:	l l	Pr0Zo1Wa1Wi	1 DOUBLE CLEA	R No	0.6514	0.88	0.81	4.00	5.00	4	80.0	[
In Wall:	Left		10									
	1	Pr0Zo1Wa4Wi	1 DOUBLE CLEA	R No	0.6514	0.88	0.81	4.00	4.00	2	32.0	1
In Wall:	Rear		IG									
	1	Pr0Zo1Wa3Wi	1 DOUBLE CLEA	R No	0.6514	0.88	0.81	4.00	5.00	4	80.0	[
In Wall:	Right		10									
	ĭ	Pr0Zo1Wa2Wi	1 DOUBLE CLEA IG	R No	0.6514	0.88	0.81	4.00	4.00	2	32.0	I
					Door	s						
N												
	o Des	scription	Туре	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier		Cond. I u/hr. sf. F] [	Dens. H lb/cf] [l	leat Cap. R-Valu Btu/sf. F] [h.sf.F/E	
Zone: 1St l	Floor		Туре	Shaded?						Dens. H lb/cf] [l	leat Cap. R-Valu Btu/sf. F] [h.sf.F/E	
Zone: 1St l In Wal	Floor l: Fn	ont			[ft]	[ft]	plier	[sf] [Bt	u/hr. sf. F] [	Dens. H lb/cf] [l	leat Cap. R-Vale Btu/sf. F] [h.sf.F/E	
Zone: 1St l In Wal	Floor l: Fn	ont OZolWalDrl	Polystyrene core	Shaded?						Dens. H lb/cf] [I	[eat Cap. R-Value Btu/sf. F] [h.sf.F/E	
Zone: 1St l In Wal	Floor l: Fr	ont OZo1Wa1Dr1			[ft]	[ft]	plier	[sf] [Bt	u/hr. sf. F] [	lb/cf] [l	Btu/sf. F] [h.sf.F/E	
Zone: 1St l In Wall	Floor l: Fr	ont OZol Wal Drl ght OZol Wa2 Drl	Polystyrene core (18 ga steel) 1		[ft]	[ft]	plier	[sf] [Bt	u/hr. sf. F] [ 0.4982	lb/cf] [l	Btu/sf. F] [h.sf.F/E	
Zone: 1St l In Wall	Floor l: Fr l: Pr l: Ri l: Pr l: Re	ont DZolWalDrl ght DZolWa2Drl	Polystyrene core (18 ga steel) 1 Polystyrene core (18 ga steel) 1	No No	3.00	7.00	plier 1	[sf] [Bt	u/hr. sf. F] [ 0.4982	0.00	Btu/sf. F] [h.sf.F/E	
Zone: 1St l In Wall	Floor l: Fr l: Pr l: Ri l: Pr l: Re	ont OZolWalDrl ght OZolWa2Drl ar OZolWa3Drl	Polystyrene core (18 ga steel) 1 Polystyrene core (18 ga steel) 1 Polystyrene core	No	3.00	7.00	plier 1	[sf] [Bt	u/hr. sf. F] [ 0.4982 0.4982	0.00	Btu/sf. F] [h.sf.F/E	
Zone: 1St l In Wall	Floor 1: Fro 1: Pro 1: Right 1: Pro 1: Re 1: Pro	ont DZolWalDrl ght DZolWa2Drl ar ZolWa3Drl	Polystyrene core (18 ga steel) 1 Polystyrene core (18 ga steel) 1	No No	3.00	7.00 7.00	plier 1 2	21.0 21.0	u/hr. sf. F] [ 0.4982 0.4982	0.00 0.00	0.00 2.01 0.00 2.01	

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				Roo	fs							
No	Description	Туре	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]		R-Value [h.sf.F/Btu]	
In Zone: 1	ISt Floor Pr0Zo1Rf1	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	46.00	60.00	1	2760.0	0.00	0.0320	1.50	8.22	31.24	
			3	Skyligh	its							
	No Descr	ription Type	UC [Btu/h	5500 mm.	ding Vi	s.Trans	W [ft]	H (Effec) ! [ft]	Multiplier	Area [Sf]	Total Area [Sf]	
In Zone: In Roo	of:											
				Floo	rs							
No	Description	Type	Width [ft]	H (Eff	ec) Mult plier		Co [Btu/h	nd. Heat Ca r. sf. F] [Btu/sf.	ip. Dens. F] [lb/cf]		Value .F/Btu]	
n Zone: 1	St Floor Pr0Zo1F11	I ft. soil, concrete floor, carpet and rubber pad	60.00	46.0	0 1	2760	0.0 0.	1745 54.00	108.00	5	.73	
-		rubber pau										

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Pr0Sy1	System 1		Constant Vol	ume Packaged S	ystem	No.	Of Units 1	
Component	Category		Capacity	Efficiency	IPLV			
1	Cooling System (Air Cool Cooling Capacity)	ed 65000 to 135000 Btu/h	102269.00	11.00	8.30			
2	Heating System (Air Cool Btu/h Clg Cap)	ed HP 65000 to 135000	50317.00	3.00				
3		ply (Air Handler (Supply) -	3400.00	0.80				
4		turn (Air Handler (Return) -	3400.00	0.80				
5	Air Distribution System (A	ADS System)		6.00				
			Plant					
Equip	ment	Category	Size	Inst.No	Eff.		IPLV	
		Wate	er Heaters					
		wate		F10000 N				
W-Hen	tar Description	Conneit Con Vinit	T/ID TO 4			Loss		
	ter Description	Capacit Cap.Unit	I/P Rt.	Efficienc		2000	H-8/24764 - 11/2	
	ter Description Vater Heater - Electric	Capacit Cap.Unit 40 Gal	I/P Rt.	Efficienc 0.8800 [I	EF]	2003	[%/hr]	
		40 Gal		200 GLASS GR. 80	EF]		[%/hr]	
1 Storage V		40 Gal	[kW]	200 GLASS GR. 80	of units	Wattage [W]	[%/hr]	
1 Storage V	Vater Heater - Electric	40 Gal  Ex  Categories.	[kW]	0.8800 [i	of units	Wattage	[%/hr]	
1 Storage V	Vater Heater - Electric	40 Gal  Ex  Categories.  Entrance (wi Entrance (w/	[kW]	0.8800 [i  Area/Len/No. [sf/ft/No	of units	Wattage [W]	[%/hr]	

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		Pipi	ng				
No	Туре	Operating Temperature [F]	Insulation Conductivity [ Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?	
1	Heating System (Steam, Steam Condensate, & Hot Wat	105.00	0,28	0.75	0.70	Yes	

Fenestration Used									
Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SC	VLT	Frame Conductance [Btu/h.sf.F]	Frame Absorptance		
ApLbWnd6	DOUBLE CLEAR IG	2	0.6514	0.8800	0.8120	0.4340	0.7000		

Materials Used												
Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHea [Btu/lb.F]				
18	Matl18	2 in. Wood	No	2.3857	0.1670	0.0700	37.00	0.3900				
264	Matl264	ALUMINUM, 1/16 IN	No	0.0002	0.0050	26,0000	480.00	0.1000	Ħ			
214	Matl214	POLYSTYRENE, EXP., 1-1/4IN,	No	5.2100	0.1042	0.0200	1.80	0.2900				
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000				
206	Matl206	CELLULOSE, FILL, 5.5IN, R- 20	No	20.8318	0.4583	0.0220	3.00	0.3300				
151	Matl151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000				
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300								
265	Matl265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000	$\exists$			

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48	Matl48	6 in. Heavyweight concrete	No	0.5000	0.5000	1,0000	140.00	0.2000	
123	Matl123	CONC BLOCK MW,8IN,HOLLOW	No	1.7227	0.6667	0.3870	53.00	0.2000	
159	Matl159	CONC HW-UNDRD-140LB-4IN	No	0.3202	0.3333	1.0410	140.00	0.2000	
57	Matl57	3/4 in. Plaster or gypsum	No	0.1488	0.0625	0.4200	100.00	0.2000	
72	Matl72	AIR LAYER, 3/4IN OR LESS, VERT. WALLS	Yes	0.9000				0.2000	
267	Matl267	0.75" stucco	No	0.1563	0.0625	0.4000	16.00	0.2000	
266	Matl266	2x4@16" oc + R13 Batt	Yes	13.0000			200000		
215	Matl215	POLYSTYRENE, EXP., 2IN,	No	8.3350	0.1667	0.0200	1.80	0.2900	
105	Matl105	CONC BLK HW, 8IN, HOLLOW	No	1.1002	0.6667	0.6060	69.00	0.2000	
256	Matl256	WOOD, SOFT, 1-1/2IN	No	1.8939	0.1250	0.0660	32.00	0.3300	
268	Matl268	0.625" stucco	No	0.1302	0.0521	0.4000	16.00	0.2000	
42	Matl42	8 in. Lightweight concrete block	No	2.0212	0.6670	0.3300	38.00	0.2000	
269	Matl269	.75" ISO BTWN24" oc	No	2.2321	0.0625	0.0280	4.19	0.3000	
86	Matl86	BRICK, COMMON, 4IN	No	0.8012	0.3333	0.4160	120.00	0.2000	
211	Matl211	POLYSTYRENE,EXP.,1/2I N,	No	2.0850	0.0417	0.0200	1.80	0.2900	
12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	
218	Matl218	POLYURETHANE,EXP.,1/2 IN,	No	3.2077	0.0417	0.0130	1.50	0.3800	
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	
4	Matl4	Steel siding	No	0.0002	0.0050	26,0000	480.00	0.1000	
271	Matl271	2x4@24" oc + R11 Batt	No	10.4179	0.2917	0.0280	7.11	0.2000	
272	Matl272	Panel with 7/16" panels	Yes	0.9044		0.0200		0.2000	=
273	Matl273	Hollow core flush (1.375")	Yes	1.2777					H
274	Matl274	Solid core flush (1.375")	Yes	1.7141					
275	Matl275	Panel with 7/16" panels (1.375")	Yes	1.0019					
276	Matl276	Hollow core flush (1.75")	Yes	1.3239					
277	Matl277	Panel with 1-1/8" panels (1.75")	Yes	1.7141					
278	Matl278	Solid core flush (1.75")	Yes	1.6500					
279	Matl279	Solid core flush (2.25")	Yes	2.8537					
280	Matl280	Fiberglass/Mineral wool core	Yes	0.8167					H

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94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500	
248	Matl248	ROOF GRAVEL OR SLAG1/2IN	No	0.0500	0.0417	0.8340	55.00	0.4000	
95	Matl95	CONC BLOCK HW-4IN-HOLLOW	No	0.7107	0.3333	0.4690	101.00	0.2000	
47	Matl47	2 in. Heavyweight concrete	No	0.1670	0.1670	1.0000	140.00	0.2000	
11	Matl11	2 in. Insulation	No	6.6800	0.1670	0.0250	2.00	0.2000	
82	Matl82	ASPHALT-SHINGLE AND SIDING	Yes	0.4400					
185	Matl185	CLAY TILE, PAVER, 3/8IN	No	0.0301	0.0313	1.0410	120.00	0.2000	
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	
81	Matl81	ASPHALT-ROOFING, ROLL	Yes	0.1500					
288	Matl288	Solid Urethane foam core	Yes	4.1500					
287	Matl287	Polyurethane core (24 ga steel) 2	Yes	4.1500					
286	Matl286	Polyurethane core (24 ga steel) 1	Yes	2.5983					
285	Matl285	Polyurethane core (18 ga steel) 2	Yes	2.5983					
284	Matl284	Polystyrene core (18 ga steel) 1	Yes	2.0071					
283	Matl283	Solid mineral fiberboard core	Yes	1.7816					
282	Matl282	Solid Urethane foam core	Yes	1.6500					
281	Matl281	Paper Honeycomb core	Yes	0.9357					

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No	Name			Simple Construct	Massless Construct	Conductane [Btu/h.sf.F]		at Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1005	1 ft. soil, concrete	e floor, carp	et and rubber pad	No	No	0.17		54.00	108.00	5.7300	
	Layer	Material No.	Material		Th	ickness [ft]	Framing Factor				
	1	265	Soil, 1 ft		2.	.0000	0.00				
	2	48	6 in. Heavyweight	concrete	0.	5000	0.00				
	3	178	CARPET W/RUB	BER PAD			0.00				
No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]		at Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1012	4" Brick /2x4@1	6" oc+R13I	Batt/0.5" Gyp	No	No	0.07		8.83	104.39	14.8863	
	Layer	Material No.	Material		Th	ickness [ft]	Framing Factor				
	1	86	BRICK, COMMO	N, 4IN	0.	3333	0.00				
	2	266	2x4@16" oc + R1	3 Batt	0.	2917	0.00				
	3	187	GYP OR PLAS BO	DARD,1/2IN	0.	0417	0.00				
	4	244	PLYWOOD, 1/2IN	1	0.0	0417	0.00				
No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]		at Capacity Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1033	Polystyrene core (	(18 ga steel)	1	No	Yes	0.50				2.0071	
	Layer	Material No.	Material		79/04/12	ickness [ft]	Framing Factor				
	1	284	Polystyrene core (1	9 on ctool) 1			0.00				

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No	Name			Simple Construct	Massless Construct	Conducta [Btu/h.sf.		Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1038	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd		No	No	0.03	1.50		8.22	31.2351		
	Layer	Material No.	Material		Th	ickness [ft]	Framir Factor				
	1	81	ASPHALT-ROOF	ING, ROLL			0.00	)			
	2	244	PLYWOOD, 1/2I	N	0.	0417	0.00	)			
	3	12	3 in. Insulation		0.	2500	0.00	)			
	4	23	6 in. Insulation		0.	5000	0.00	)			
	5	187	GYP OR PLAS B	OARD,1/2IN	0.	0417	0.00	)			

EnergyGauge FlaCom FLCCSB v1.22

Name	Edward L	. T \abol Library			Phone		
Address	Lake City,				THORE		
Contractor Address					Phone		
1. Cooling	Design Co	ndiltions			Correction		
Latitude		29					
Time		3:00pm	Daily Range	18	-1		
Inside db (F)		75	Inside %RH	60			
Outside db (F)		93	Outside %RH	77			
Outside db @3	3pm	93	Time Correct.	0			
Grains (50%)		51	T.D. =	18	-2		
<ol><li>Solar Ra</li></ol>	adiation He	at Gain Thro	ugh Glass			Cooling Load	
		Exposure	Sq. Ft.	Solar Factor	Shading Factor	Sensible	Late
Clear, 2pane		SE	80	67	0.88	4717	
Light. wt. bldg.		NE	32	39	0.88	1098	
		NW	80	47	0.88	3309	
		sw	32	109	0.88	3069	
3. Transmi	ission Gain	ıs					
Glass	ETD	Exposure	Sq. Ft.	U Factor	db dT or Equiv.		
Clear, 2pane		All	224	0.65	18	2621	
Walls	D	N	439	0.076	15	500	
Stucco, R13	D	E	361	0.076	23	631	
	D	S	439	0.076	36	1201	
	D	W	361	0.076	17	466	
Doors Steel	use t.d.	All	126	0.56	18	1270	
Roof/Ceiling Shingles, 7/16"OSB	R4 3, R30	All	2760	0.04	80	8832	
4. Internal I							
a. Occupants	5		Number	Sensible	Latent		
	3		37	210	140	7770	51
b. Lights & O	thers		0.	Watts	140	7770	31
9		luorescent Lights		5440	3.4	18496	
		ncandescent Light		400	4.1	1640	
	Name		Sensible	Latent	Usage Factor	1040	
Appliances	All		10000	2000	1		
5. Infiltratio	on		ft3/min	db dT	dGrains		
	Doors		220	18	51	4356	763
leutral, avg.	Bldg.		165	18	51	3267	572
Part of the state of the second		oad from Spa		10	31	51051	1853
7. Supply [		•	Gain Factor	Line 6 Sensible (	Gain		1000
D	7ans == 5'	aals Daari	0.03	51051		1532	
		ock Design L	oad		Lines 6+7	52582	1853
Supply dT		ine 8 Sens.	52582	Cooling cfm =	2516		
9. Ventilation	on	cfm/occupant	ft3/min	db dT	dGrains		
Ion Smoking		7	259	18	51	5128	898
10. Return	Air Load Fi	rom Lighting	And Roof				
11. Return	<b>Duct Heat</b>	Gain	Line 6 Sensible	Gain	Gain Factor		
			51051		0.00	0	

13. Heating D	sign Conditions	
---------------	-----------------	--

Inside db = 75 Outside db= 31 dT= 44

14. Transm	ission Los	ses				Heating Load
Glass	ETD	Exposure	ft2	U Factor	db dT	
Clear, 2pane		All	224	0.62	44	6111
Walls	D	N	439	0.076	44	1468
Stucco, R13	D	E	361	0.076	44	1207
	D	NW	439	0.076	44	1468
	D	sw	361	0.076	44	1207
Doors	use t.d.	All	126	0.56	44	3105
Steel						
Roof/Ceiling	R4	All	2760	0.04	44	4858
Shingles, 7/16"OSB,	R30					
15. Infiltration	on			ft3/min	db dT	
door	D	oors		380	44	18392
Neutral, avg.	В	ldg.		248	44	12003
16. Sub Tot	tal Heating	Load for Spac	е			37815
17. Supply	Duct Heat	Loss		Loss Factor	Line 16 Sensible	
				0.05	37815	1891
18. Ventilat	ion			ft3/min	db dT	
				259	44	12536
19. Humidif	ication					2225
20. Return l	Duct Heat I	Loss		Loss Factor	Line 16 Sensible	
				0.00	37815	0
21. Total He	eating Load	d on Equipmen	t (Btuh)		3.5	41931

TABLE 503
ALLOWABLE HEIGHT AND BUILDING AREAS
Height limitations shown as stories and feet above grade plane.
Area limitations as determined by the definition of "Area, building," per floor.

	-					OF CONSTRUC				
	-	TYF		TYP			EIII	TYPE IV	TYP	
	Hgt(feet)	Α	В	A	В	A	В	нт	A	В
GROUP	Hgt(S)	UL	160	65	55	65	55	65	50	40
A-1	S	UL	5	3	2	3	2	3	2	1
Λ-1	A S	UL	UL 11	15,500	8,500 2	14,000	8,500 2	15,000	11,500	5,50
A-2	A	UL	UL	15,500	9,500	14,000	9,500	15,000	11,500	6,00
A-3	S A	UL UL	11 UL	3 15,500	2 9,500	3 14,000	9,500	3 15,000	2 11,500	6,00
A-4	S A	UL UL	II UL	3 15,500	2 9,500	3 14,000	2 9,500	3 15,000	2 11,500	6,00
A-5	S A	UL UL	UL	UL UL	UL UL	UL UL	UL UL	UL UL	UL UL	UI
В	S A	UL UL	11 UL	5 37,500	4 23,000	5 28,500	4 19,000	5 36,000	3 18,000	9,00
E/D	S A	UL UL	5 UL	3 26,500	2 14,500	3 23,500	2 14,500	3 25,500	1 18,500	1 9,50
F-1	S A	UL UL	11 UL	4 25,000	2 15,500	3 19,000	2 12,000	4 33,500	2 14,000	1 8,50
F-2/F-3	S A	UL	11 UL	5 37,500	3 23,000	4 28,500	3 18,000	5 50,500	3 21,000	2 13,0
H-1	S A	1 21,000	1 16,500	1 11,000	1 7,000	1 9,500	1 7,000	1 10,500	1 7,500	NI NI
H-2	S A	UL 21,000	3 16,500	2 11,000	1 7,000	2 9,500	1 7,000	2 10,500	1 7,500	3,00
H-3	S A	UL UL	6 60,000	4 26,500	2 14,000	4 17,500	2 13,000	4 25,500	2 10,000	5,00
H-4	S A	UL UL	7 UL	5 37,500	3 17,500	5 28,500	3 17,500	5 36,000	3 18,000	2 6,50
H-5	S A	3 UL	3 UL	3 37,500	3 23,000	3 28,500	3 19,000	3 36,000	3 18,000	9,00
I-1	S A	UL UL	9 55,000	4 19,000	3 10,000	4 16,500	3 10,000	4 18,000	3 10,500	2 4,50
1-2	S A	UL UL	4 UL	2 15,000	1 11,000	1 12,000	NP NP	1 12,000	1 9,500	NI NI
I-3	S A	UL UL	4 UL	2 15,000	1 10,000	2 10,500	1 7,500	2 12,000	2 7,500	1 5,00
М	S A	UL UL	11 UL	4 21,500	4 12,500	4 18,500	4 12,500	4 20,500	3 14,000	9,00
R-1	S A	UL UL	11 UL	4 24,000	4 16,000	4 24,000	4 16,000	4 20,500	3 12,000	7,00
R-2ª	S A	UL UL	11 UL	4 24,000	4 16,000	4 24,000	4 16,000	4 20,500	3 12,000	2 7,00
R-3 <sup>a</sup>	S A	UL UL	11 UL	4 UL	4 UL	4 UL	4 UL	4 UL	3 UL	3 UI
R-4	S A	UL UL	11 UL	4 24,000	4 16,000	4 24,000	4 16,000	4 20,500	3 12,000	2 7,00
S-1	S A	UL UL	11 48,000	4 26,000	3 17,500	3 26,000	3 17,500	4 25,500	3 14,000	1 9,00
S-2 <sup>b, c</sup>	S A	UL UL	11 79,000	5 39,000	4 26,000	4 39,000	4 26,000	5 38,500	4 21,000	2 13,5
U <sup>c</sup>	S A	. UL UL	5 35,500	4 19,000	2 8,500	3 14,000	2 8,500	4 18,000	2 9,000	1 5,50

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m<sup>2</sup>. UL = Unlimited, NP = Not permitted.
a. As applicable in Section 101.2.
b. For open parking structures, see Section 406.3.
c. For private garages, see Section 406.1.



- Series 165 Single Hung and Fixed Windows
- Series 650 Single Hung and Fixed Windows
- Series 168 Horizontal Slider and Fixed Windows
- Series 680 Horizontal Slider and Fixed Windows

NOTE: SEE INDIVIDUAL TEST REPORT(S) FOR DP RATINGS AND MAXIMUM ALLOWABLE SIZES.

# INSTALLATION INSTRUCTIONS FOR "APPROVED FOR FLORIDA" ALUMINUM FIN WINDOWS

Capitol Windows & Doors appreciates your recent purchase of a maintenance free prime window, which will not rust, rot, mildew, or warp. This is a quality product that left our factory in good condition - proper handling and installation are just as important as good design and workmanship. Please follow these recommendations to allow this product to complete its function.

- Handle units one at a time in the closed and locked position and take care not to scratch frame or glass or to bend the nailing fin. Place a continuous bead of caulk on the back side of nail fin (mounting flange).
- 2. Set unit plumb and square into opening and make sure that there is 3/16" ± 1/16" clearance around the frame. Fasten unit into opening in the closed and locked position, making sure that fasteners are screwed in straight in order to avoid twisting or bowing of the frame. Make sure that sill is straight and level. Check operation of unit frequently as fasteners are set.
- Use # 8 sheet metal or wood screws with a minimum of 1" penetration into the framing (stud). Place first screws (two at each corner) 3" from end of fin. For positive and negative DPs (design pressures) up to 35, do not exceed 24" spacing of additional screws. For DPs from 35.1 to 50, do not exceed 18" spacing.
- Caulk entire perimeter of fin to mounting surface joint and caulk over screw heads. Note: this step can be eliminated if 4" wide adhesive type flashing is used (sill 1st., jambs 2nd., head 3nd.).
- 5. Fill voids between frame and construction with loose batten type insulation or non-expanding aerosol foam specifically formulated for windows and doors to eliminate drafts. The use of expanding aerosol type insulating foam, which can bow the frame, waives all stated warranties.
- 6. Remove plaster, mortar, paint, and debris that has collected on the unit and make sure that sash/vent tracks and interlocks are also clean. Do not use abrasives, solvents, ammonia, vinegar, alkaline, or acid solutions for clean-up, especially with insulated glass units as their use could cause chemical breakdown of the glass seal. Take care not to scratch glass; scratches severely weaken glass and it could eventually break from thermal expansion and contraction. Clean units with water and mild detergent.

## - CAUTION -

Capitol Windows & Doors or its representatives are unable to control and cannot assume responsibility for the selection and placement of their products in a building or structure in a manner required by laws, statutes, and/or building codes. The purchaser is solely responsible for knowledge of and adherence to the same. BetterBilt window products are not provided with safety glazing unless specifically ordered with such. Many laws and codes window products are not provided with salety glazing require safety glazing (tempered glass) near doors, bathtubs, and shower enclosures. Also be code requirements such as emergency egress and structural / energy performance.

Corporate Headquarters:

M.I. Home Products
650 West Market St.

Gratz, PA 17030-0370

(717) 365-3300

JL 2 21

STATE OF

JULY 29, 2003 require safety glazing (tempered glass) near doors, bathtubs, and shower enclosures. Also be aware of other

www.mihp.com

Rev. 7-24-03



# AAMA/NWWDA 101/LS.2-97 TEST REPORT SUMMARY

## Rendered to:

# MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft <sup>2</sup>
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen / description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:nlb

alle M. Reem



## AAMA/NWWDA 101/LS.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC. 650 West Market Street P.O. Box 370 Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01

Test Date:

03/07/02

Report Date:

03/26/02

Expiration Date:

03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

# **Test Specimen Description**:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap around gasket. The fixed lite was interior glazed against double-sided adhesive foare tape and & PROFY secured with PVC snap-in glazing beads.

130 Derry Court York, PA 17402-9405 phone: 717.764.7700 fax: 717.764.4129 www.archtest.com

allen n. Ren



# Test Specimen Description: (Continued)

# Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

## Hardware:

Description	Quantity	Location
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail 10. 1825
		allen M. Remainson Eller

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Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

#### Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft <sup>2</sup>	0.3 cfm/ft <sup>2</sup> max

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.

Water Resistance (ASTM E 547-00)
(with and without screen)
WTP = 2.86 psf No leakage No leakage

2.1.4.1 Uniform Load Deflection (ASTM E 330-97)
(Measurements reported were taken on the meeting rail)
(Loads were held for 33 seconds)
@ 25.9 psf (positive) 0.42"\* 0.26" max.
@ 34.7 psf (negative) 0.43"\* 0.26" max.

\*Exceeds L/175 for deflection, but passes all other test requirements.

2.1.4.2 Uniform Load Structural (ASTM E 330-97)

(Measurements reported were taken on the meeting rail)

(Loads were held for 10 seconds)

@ 38.9 psf (positive) 0.02" 0.18" max. @ 52.1 psf (negative) 0.02" 0.18" max.

aller D. Rewa



# Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed					
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs							
	Meeting rail	0.12"/25%	0.50"/100%					
	Bottom rail	0.12"/25%	0.50"/100%					
	In remaining direction at 50 lbs							
	Left stile	0.06"/12%	0.50"/100%					
	Right stile	0.06"/12%	0.50"/100%					
	Forced Entry Resistance (ASTN	/I F 588-97)						
	Type: A							
	Grade: 10							
	Lock Manipulation Test	No entry	No entry					
	Tests A1 through A5	No entry	No entry					
	Test A7	No entry	No entry					
	Lock Manipulation Test	No entry	No entry					
CONTRACTOR OF THE CONTRACTOR O								

## Optional Performance

547-00)
5

(with and without screen)

WTP = 6.00 psf

No leakage

No leakage

Uniform Load Deflection (ASTM E 330-97)

(Measurements reported were taken on the meeting rail)

(Loads were held for 33 seconds)

@ 45.0 psf (positive) @ 47.2 psf (negative) 0.47"\* 0.46"\*

0.26" max. 0.26" max.

Uniform Load Structural (ASTM E 330-97)

(Measurements reported were taken on the meeting rail)

(Loads were held for 10 seconds)

@ 67.5 psf (positive) @ 70.8 psf (negative) 0.05" 0.05" 0.18 mar (\$171716)

alle M. Recon

<sup>\*</sup>Exceeds L/175 for deflection, but passes all other test requirements.



Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess Technician

MAH:nlb 01-41134.01 aller M. Rican

Allen N. Reeves, P.E.

Director - Engineering Services

/ APRIL 2002



# STRUCTURAL VERTICAL MULLION PART # CM-65130 MULLION NAIL FIN type

NOTE: If adding a transom, roundhead, etc., saw 1/4" off the top of the mull before joining units and refer to harizantal mull instruction sheet.

Step 1. Strip fins from windows where mulls are to be used.

Step 2. Apply a bead of silicone caulk in the mull to seal against window jambs. Wipe away any "squish out" from exterior.

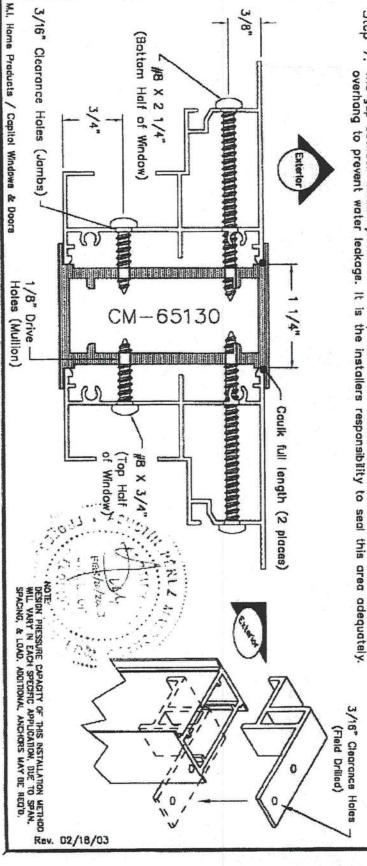
Step 3. Place windows and mullions together as shown below.

Step 4. The single hung jamb has an exterior track (screen area — bottom half of window) and on interior track (sperating sash — upper half of window). In these areas only, drill 1/8" pilot holes through the jambs into the mullion, then re—drill the jambs only with 3/16" clearance holes. Drill holes 3" from top & bottom and remaining holes are not to exceed 18" spacing.

Step Ċ Attach windows to mullion using  $\#8 \times 2 1/4$ " sheet metal screws (not included) through drilled holes in bottom half below. Attach using  $\#8 \times 3/4$ " screws in top half as shown. To avoid jamb distortion, do not avertighten screws.

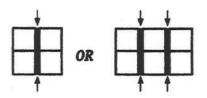
Step Ö Before III ting into rough opening, drill two 3/16" holes in each clip and insert into each end of mull as shown below with tab painting to inside. Fasten each clip tab to construction with two  $\#10 \times 1 \ 1/2$ " screws to achieve a min. 1-3/8" embedment into wood framing.

Step 7. The gap between window jambs at the tap must be flashed and silicane caulked and preferably covered by construction overhang to prevent water leakage. It is the installers responsibility to seal this area adequately.



# MI HOME PRODUCTS

VERTICAL MULLION DESIGN LOAD CAPACITIES FOR ALUMINUM TUBE MULLION (DIE # CM-65130)



WDW. WIDTH > MULLION SPAN V	19.125	24.000	26.500	36.000	37.000	48.000	53.125
36.000	576	506	483	450	450	450	450
37.375	528	461	439	402	402	402	402
48.000	291	248	233	198	196	186	186
50.625	245	208	194	164	162	151	150
60.000	142	119	111	91	89	79	77
63.000	122	102	94	77	75	66	64
72.000	80	66	61	49	48	41	39
72.250	79	65	60	48	48	41	39

CHART APPLIES ONLY TO EXTRUDED ALUMINUM MULLION (DIE NO: CM-65130)

READ WINDOW WIDTH AND HEIGHT IN INCHES.

DESIGN PRESSURE VALUES ON THIS CHART ARE IN PSF.

WINDOW WIDTH DIMENSIONS REPRESENT THE WIDTH OF EACH WINDOW IN A SINGLE OPENING, NOT THE OVERALL WID' THE OPENING.

DESIGN PRESSURE VALUES SHOWN ON THE ABOVE CHART IS NOT LIMITED TO ONLY TWO WINDOWS IN A SINGLE OPENIA CAPACITIES APPLY TO ANY NUMBER OF WINDOWS IN A SINGLE OPENING, PROVIDED WINDOW WIDTH AND MULLION SPA ARE NOT EXCEEDED.

Dmax = L / 175

INSTALLATION OF MULLION: MULLION MUST BE ANCHORED TO SUBSTRATE. CONNECTION MUST BE DESIGNED TO ADEQUATELY TRANSFER LOAD TO THE STRUCTURE. SEE MANUFACTURER'S MULLION INSTALLATION DETAILS.

PREPARED BY:

PRODUCT TECHNOLOGY CORPORATION 250 INTERNATIONAL PARKWAY SUITE 250 HEATHROW, FLORIDA 32746 PHONE 407 805-0365 / FAX 407 805-0366

MAR. 21, 02 02-0450



After Recording Return To: Blake Construction Company 291 S. W. Sisters Welcome Rd., #102 Lake City, Florida 32025

Inst:20050235	09	Date:	09/	22/2005 7	ime:14	:37		
<u>B</u>	C,P	.DeWi	tt	Cason,Col	umbia	County	B:1059	P:112

PERMIT NO.:	

TAX FOLIO NO.: 30-3S-16-02398-202

#### **Notice of Commencement**

### STATE OF FLORIDA COUNTY OF COLUMBIA

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

- Description of property: See Attached
- 2. General description of improvement: Construction of school library
- Owner information:
  - Name and address: Linnie Jordan, 7443 US 90 West, Lake City, FL 32055
  - b. Interest in property: Fee simple
  - c. Name and address of fee simple title holder (if other than Owner):
- Contractor:

BLAKE CONSTRUCTION COMPANY, 291 S.W. Sisters Welcome Rd., Suite #102,

Lake City, Florida 32025

- Surety:
  - Name and address:

None

b. Amount of bond:

N/A

- 6. Lender: None
- Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes: None
- In addition to himself, Owner designates N/A to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.
- 9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified:

190/180

TION COMPANY

By: Blake N. Lunde, II, President

The foregoing instrument was acknowledged before me this 9th day of June, 2005 by Blake N. Lunde, II, who is personally known to me and who did not take an oath.

(SEAL)

NORA L. TERRY
Notary Public - State of Florida
My Commission Expires Mer 24, 2009
Commission # DD 410803
Bonded By National Notary Assn.

Notary Public

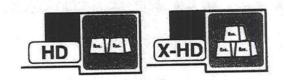
Inst:2005023509 Date:09/22/2005 Time:14:37
\_\_\_\_\_\_\_\_DC,P.DeWitt Cason,Columbia County B:1059 P:1124

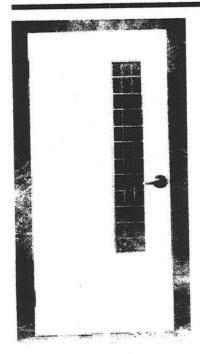
Legal Description

COMM SE COR OF NE1/4 OF NE1/4, RUN W 360 FT, CONT W 1390.01 FT TO W R/W LAKE WILSON WAY, S 2350.99 FT TO S R/W SUNSET LANE, NW ALONG R/W 661 FT FOR POB, CONT NW 661 FT, S 680 FT TO N R/W US-90, SE ALONG R/W 661 FT, N 680 FT TO POB. (AKA LOT 2 LAKE WILSON RANCHETTES S/D UNREC ACCORDING TO PRELIM PLOT PLAN & ALSO COMM SE COR OF NE1/4 OF NE1/4, RUN W 360 FT, CONT W 1390.01 FT TO W R/W LAKE WILSON WAY, RUN S ALONG R/W, 1418.49 FT, W 597.52 FT, S 735.13 FT, N 75 DG W 29.98 FT FOR POB, CONT N 75 DG W 661 FT, S 14 DG W 60 FT, S 75 DG E 661 FT, N 14 DG E 60 FT TO POB ORB 817-442, 1006-222,

# STEELCRAFT.

# L18 AND L16-SERIES HONEYCOMB DOORS





# ABOUT THE PRODUCT:

The L18 and L16-Series Flush Doors are designed to meet the architectural requirements for full flush doors. This premium door construction combines the strength and dimensional stability of steel with the structural integrity of the honeycomb core. The continuous bonding of core to metal provides an attractive flat door, free of face welding marks. Tests have proven that the L-Series door has integral high resistance to impact damage, low thermal conductivity, and high STC ratings.

To meet application, specification and performance requirements, the L-Series doors offer a wide range of specifiable options including sizes, glass lite designs, hardware (mechanical, pneumatic, electrical) preparations and edge constructions.

# FEATURES AND BENEFITS:

Steelcraft's L-Series Doors offer the following standard unique features, which enhance long term performance and durability.

- 1. Honeycomb core system enhances the structural integrity of the door, while significantly reducing the weight.
- 2. Full height, epoxy filled mechanical interlock edges provide structural support and stability the full height of the
- 3. Patented universal hinge preparations allow for easy field conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
- 14 gage top and bottom channels provide stability and protection for the top and bottom edges from abuse
- Beveled hinge and lock edges allow for tighter installation tolerances, ensure easier operation, and eliminate binding and sticking.
- Recessed Dezigner™ glass trim provide a clean, neat, and flush finish with the door surface.
- Factory applied baked on rust inhibiting primer in accordance with ANSI A250.10.

## **SPECIFICATION COMPLIANCE:**

- Door construction for the Steelcraft L18 and L16-Series Full Flush Doors meet the requirements of ANSI A250.8-1998 (commonly referred to as SDI-100).
- 2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.

#### **FIRE RATINGS:**

The L-Series doors meet the broadest fire rating requirements. They are listed for installations requiring compliance to both negative pressure testing (ASTM E152 and UL-10B) and positive pressure standards (UBC 7-2 and UL-10C)

Ot al Thickness	Opening	Usage Frequency <sup>1</sup>	Frame Applications	
Steel Thickness		Extra-heavy duty	16 & 14 gage steel frames	
16 gage (1.3mm) Interior & Exterior	Heavy duty	16 gage steel frames		
18 gage (1mm)	Interior & Exterior	The same of the sa		
Steel Type	Opening	Typical building conditions     Used in locations with high humidity and/or weather exposure.		
Non Galvannealed <sup>3</sup>	Mainly Interior			
Calvannealed <sup>2</sup>	Mainly Exterior			

Depending on environmental conditions, exterior doors are generally galvannealed and interior doors non galvanneal. All doors are supplied with a factory applied baked on primer for field applied finish paints.

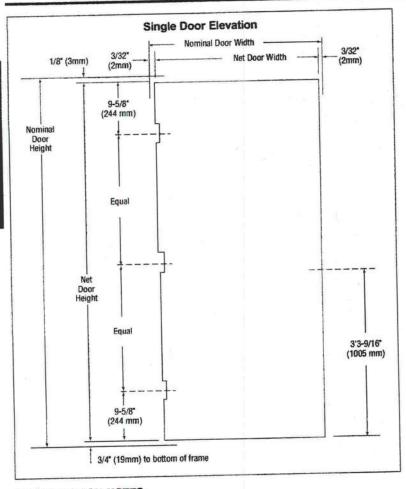
Usage frequency is based on ANSI A250.8-1998
 Reinforcements for galvannealed doors are also galvanneal
 Commercial quality carbon steel



Spec Manual Rev. 5/2002

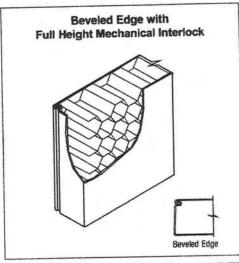
L1-1

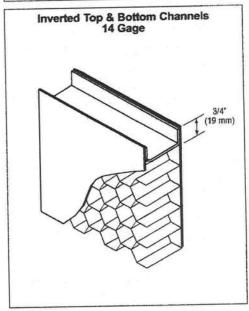
Details are subject to change without prior notice. © 2000 Steelcraft Co. Printed in USA

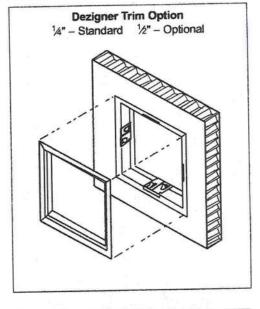


## **CONSTRUCTION NOTES:**

- Doors are 1¾" (45mm) thick.
- Door opening size maximum: Single door opening size 4'0" x 10'0" (1219mm x 3048mm) Double door opening size 8'0" x 10'0" (2438mm x 3048mm)
- 3. Standard operating clearances (installed in frame): Head = 1/8" (3mm) to bottom of head or transom panel Hinge and lock side = 3/32" (2mm) to rabbet on jamb
- Standard core system:
  - 1" (25mm) cell Kraft honeycomb core is laminated to both face sheets with contact adhesive. The honeycomb is phenolic resin impregnated and sanded to insure ultimate lamination and performance. To further enhance the structural stability of the door the honeycomb core material is subjected to several unique operations prior to assembly. If any of these operations are eliminated, the strength and durability of the door is compromised.
- Hardware preparations: to meet specifications, doors can be prepared for all commercial mortised hardware, and can be factory reinforced for surface applied hardware applications.
  - Lock preps details and dimensions shown are for cylindrical (ANSI 115.2) type locks. For mortise (ANSI A115.1) locks, the centerline of the lock is located 3/8" (9mm) lower.
- 6. Glass lites with Dezigner® trim and louvers: doors with glazed cutouts and doors with louvers are available (see Lites and Louvers section of Spec Manual).





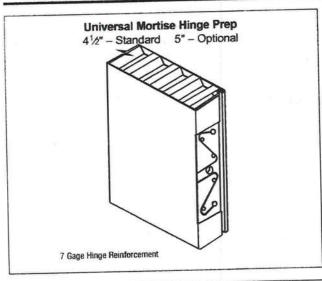


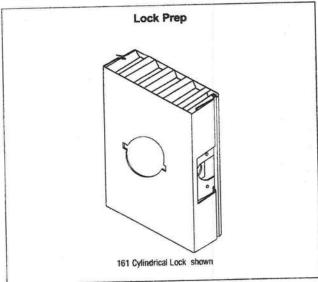
L1-2

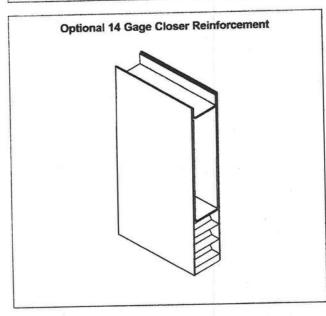
Spec Manual

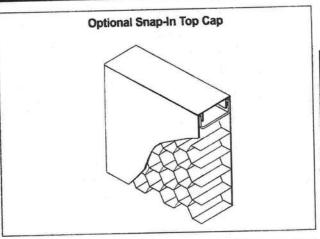
(IR) Security & Safety.

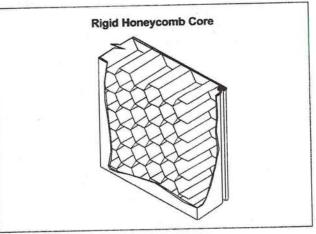












### **GENERAL NOTES:**

- Edge construction:
  - Vertical edges (both hinge and lock) are beveled with a visible seam.
  - Top and bottom edges are closed with inverted 14 gage welded channels. Exterior applications require the addition of snap-in top caps to protect against the weather.
- Optional edge seams available in the L-Series door construction are as follows:
  - LF The mechanical edge seam is filled and finished prior to applying the factory primer.
  - LW The mechanical edge seam is welded and finished prior to applying the factory primer.
- 3. Optional cores available in the L-Series door construction:
  - Polystyrene for exterior applications in extreme weather conditions.
  - Polyurethane for exterior applications in arctic weather conditions. Not Fire Rated.
- Standard hardware preparations: standard mortised and reinforced for.
  - Universal hinge preps 4½"(114mm) patented preparation which allows easy and quick field conversion from standard to heavy weight hinges.
  - Locks A multitude of standard lock preps are available.
     The most commonly used with a 4½" (124mm) strike are 161, 61L and 86.

R Security & Safety.

Spec Manual Rev. 5/2002 L1-3

#### INSTALLATION:

- Installation shall conform to the published Steelcraft installation instructions, SDI 105 Recommended Installation Instructions for Steel Frames, and ANSI/DHI A115-IG Installation Guide for Doors and Hardware.
- Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The Authority Having Jurisdiction is the final authority in issues related to the installation and use of installed Fire Rated Doors.

# **DOOR EDGE APPLICATIONS:**

The L-Series Doors are used in virtually all buildings and construction applications. The application and functionality dictate the door edge construction specified.

Edge	Usage	Application	
Ľ	Heavy & Extra-heavy duty	High traffic in all commercial applications	
LF	Heavy & Extra-heavy duty	High traffic, in sanitation conditions	
LW	Heavy & Extra-heavy duty	High traffic, in sanitation and high abuse conditions	

#### **CONVERSION CHART**

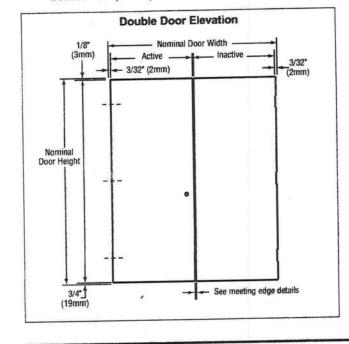
ANSI A250.8 (SDI 100) Recommended Specification for Standard Steel Doors and Frames.

Series	Level	Model	Description	Edge Construction
	Level	1	Full Flush	Full height, visible mechanical interlocked edge
L18	2			L-Series with epoxy filled edge seams
LF18	2	2	Seamless	L-Series with epoxy mied edge seame
LW18	2	2	Seamless	L-Series with welded edge seams
	1 2	1	Full Flush	Full height, visible mechanical interlocked edge
L16	3	+	Seamless	L-Series with epoxy filled edge seams
LF16	3	2		L-Series with welded edge seams
LW16	3	2	Seamless	L-Series with weided edge seams

# **DOUBLE DOOR APPLICATIONS:**

L-Series doors are available in double door elevations, with active and inactive leaves and an overlapping astragal.

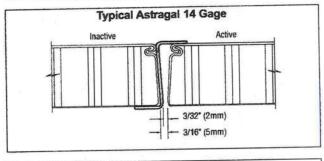
- Standard operating clearances (installed in frame):
- Head = ½" (3mm) to bottom of head or transom panel
- Hinge side = <sup>3</sup>/<sub>2</sub>" (2mm) to rabbet on jamb
- Meeting edges = 3/2" (2mm) with or without astragal.
   For openings without an astragal, a wide inactive leaf is used.
- Bottom = ¾" (19mm) to bottom of frame

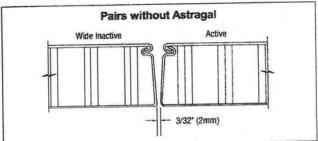


# Meeting edges:

- 14 Gage astragal is furnished loose for installation in the field by others.
- Overlapping astragal kits are available to convert an active leaf to an inactive leaf.
- When an astragal is not used, the width of the inactive leaf is increased <sup>3</sup>/<sub>2</sub>" (2mm).
- Hardware preparations: the inactive leaf can be prepared for hardware as specified.

## **MEETING EDGE DETAILS:**

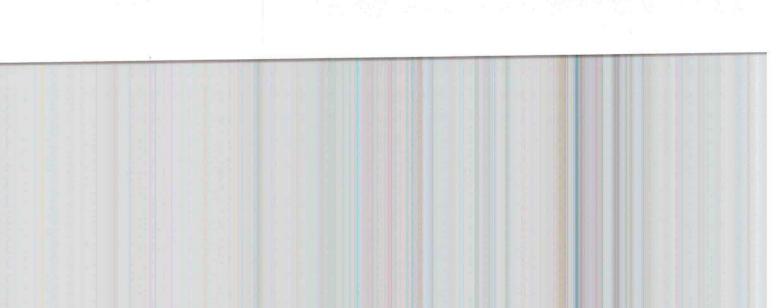




L1-4

Spec Manual Rev. 5/2002





File: R3993

Page T4-1 of 3

Issued: 2004-09-16

TEST RECORD NO. 4

#### SAMPLES:

The assembly as tested consisted of the following products:

- Door: Steelcraft Model L18 4, 8 ft. x 8 ft., F 86 pair of doors
- 2. Frame: Steelcraft F16 8 ft. x 8 ft. frame with 5-3/4 in. jamb depth
- 3. Anchors: Existing Masonry Anchors
  4. Hardware: Von Duprin 9447 concealed vertical rod with 338 strike and IVES 3CB1 4.5 x 4.5 hinges
- 5. Weatherstripping: ZERO 328 Split Astragal, Steelcraft PS-074 and Durable HL-205HV Threshold (1/4 in.)
- 6. Test Frame: 2 in. x 12 in. wood stud test buck.

The assembly and products as tested were considered representative for the following products since the assembly as tested was considered a worstcase scenario:

- Doors: Steelcraft L16, L14, B18, B16, B14, T18, T16, T14, SL18, SL16, CE18 and CE16 singles up to 4 ft. x 8ft. and pairs up to 8 ft. x 8ft.
- 2. Frames: MU16, F14 and MU14 with 5-3/4 in. minimum jamb depths
- 3. Anchors: steel stud anchors, wood stud anchors, wire masonry and masonry T type anchors
- 4. Hardware: Von Duprin 94/9547, 94/9547-F, 33/3547A, 33/3547A-F, 98/9947, 98/9947-F

## CONSTRUCTION DETAILS:

The test buck was covered with plastic that was sealed with duct tape to the test wall. Tape was not used to seal the perimeter of the door where it adjoined the frame.

## TEST METHOD REFERENCE:

The tests described herein were conducted in accordance with the 2002 Edition of the Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference, ASTM E330-02. The structural testing was conducted using Procedure A as specified in Sec. 11.2.

## AIR INFILTRATION TEST:

## METHOD

Prior to conducting the ASTM E-330 test on the assembly as described, an air infiltration test was conducted on the assembly in accordance with ASTM E283.

## RESULTS

The measured air infiltration for the assembly at 1.57 PSF was 0.64 CFM/ft2. This was within the allowable leakage of 1.2 CFM/ft2 as determined by the Standard.

File: R3993 Page T4-2 of 3

Issued: 2004-09-16

STATIC STRUCTURAL LOADING TEST

## METHOD

As described in the Standard, the assembly covered by this test record was subjected to pre-loads of 37.5 (50% of Proof Load) PSF (pounds per square foot) for 10 s prior to being subjected to the test load of 50 PSF for 10 s. As required by the Standard, the door assembly was then loaded in both directions to a proof load of 75 PSF for 10 s where the proof load was 1.5 times the design load.

#### RESULTS

The assembly was pressurized as described in the test method and the assembly was observed to bow outwards during the positive load tests and was observed to suck inwards towards the chamber during the negative load tests. The hardware did not become unlatched as a result of the testing and remained engaged into the respective strikes. It was noted that the tape and plastic placed over the assembly to seal it against the wall did not influence the results of the test.

Deflection measurements were taken during the test at the various load pressures. These measurements are shown below.

Pressure PSF (in. H <sub>2</sub> O)	Load Location	Deflection (in.)- With Load	Deflection (in.)- No Load
+ 37.5 (7.22)	Тор	0.289	0.177
+ 37.5 (7.22)	Middle	0.517	0.169
+ 37.5 (7.22)	Bottom	0.799	0.084
+ 50 (9.63)	Тор	0.160	0.004
+ 50 (9.63)	Middle	0.485	0.025
+ 50 (9.63)	Bottom	0.150	0.040
+ 75 (14.45)	Тор	0.279	0.042
+ 75 (14.45)	Middle	0.772	0.029
+ 75 (14.45)	Bottom	0.191	0.025
- 30 (5.78)	Top	0.207	0.070
- 30 (5.78)	Middle	0.451	0.132
- 30 (5.78)	Bottom	0.329	0.145
- 40 (7.7)	Тор	0.198	0.049
- 40 (7.7)	Middle	0.489	0.068
- 40 (7.7)	Bottom	0.298	0.048
- 60 (11.56)	Тор	0.243	0.0685
- 60 (11.56)	Middle	0.751	0.0965
- 60 (11.56)	Bottom	0.373	0.0695
- 67.5 (13)	Top	0.3645	0.065
- 67.5 (13)	Middle	1.045	0.161
- 67.5 (13)	Bottom	0.372	0.0365
- 75 (14.45)	Top	0.435	0.111
- 75 (14.45)	Middle	1.178	0.339
- 75 (14.45)	Bottom	0.715	0.292

File: R3993 Page T4-3 of 3 Issued: 2004-09-16

The maximum calculated deflection at ± 75 PSF are shown in the table

Maximum Tested Pressure (PSF)	Calculated Permanent Deflection at Maximum Load (in.)	Permanent Deflection Limit (in.)
+ 75	-0.004	0.548
- 75	0.1375	0.548

File: R3993

Page Cl

Issued: 2004-09-16

CONCLUSION:

The assembly as described in Test Record No. 4 met the requirements of ASTM E330 for a Design Rating of  $\pm$  50 PSF.

Samples of the products covered by this Report have been investigated and the products are judged to be eligible for Classification and Follow-Up Service under the category ZGXJ for wind resistant building components. The manufacturer is authorized to use the UL Mark on such products, which comply with the Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products, which properly bear the UL Mark are considered as Classified by Underwriters Laboratories Inc.

Report by:

Reviewed by:

Matthew Schumann Project Engineer Fire Protection Division Robert Keogh Section Manager Fire Protection Division



BUILDING CODE COMPLIANCE OFFICE (BCCO) PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA METRO-DADE FLAGLER BUILDING 140 WEST FLAGLER STREET, SUITE 1603 MIAMI, FLORIDA 33130-1563 (305) 375-2901 FAX (305) 375-2908

#### NOTICE OF ACCEPTANCE (NOA)

CertainTeed Corporation 1400 Union Meeting Road Blue Bell, PA 19422

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Landmark 30 (and-AR) (and WideTrack QB), Landmark 40 (and-AR) (and WideTrack QB) and Landmark 50 (and-AR) (and WideTrack QB)

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

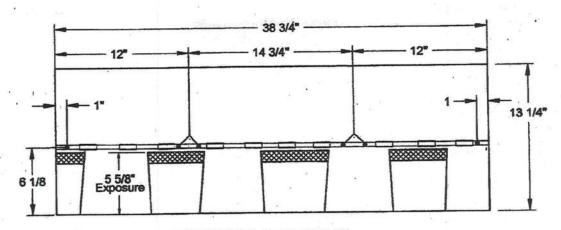
This NOA consists of pages 1 through 4.

The submitted documentation was reviewed by Frank Zuloaga, RRC

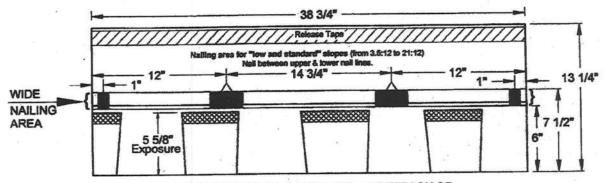


NOA No.: 02-1219.03 Expiration Date: 02/28/07 Approval Date: 03/27/03 Page 1 of 4

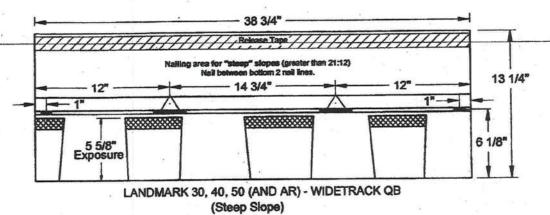
#### DETAIL B



LANDMARK 30, 40, 50 (AND AR)



LANDMARK 30, 40, 50 (AND AR) - WIDETRACK QB (Low and Standard Slope)



#### END OF THIS ACCEPTANCE



NOA No.: 02-1219.03 Expiration Date: 02/28/07 Approval Date: 03/27/03

Page 4 of 4

## Application Number 0506-24 Date Reviewed 6-9-05

Status of Application Hold \_\_\_\_OK\_\_

Builder Name: BLAKE CONSTRUCTION.
Phone Fax
Owner Name: LINNIC JOIDAN
Phone Fax
911 Address 7 443 US 90 WEST
Property ID Number 30-35-16-02398-202 Subdivision
Lot Block Unit Phase Total Acreage Lot Size
Site Plan: Yes No Part of Plans Sheet #
Front setbackSideRear
Type of Construction A-2 Type VI Single Family: Yes No X
Total Building Height 26 6 Roof pitch /2/12
Heated & Cooled Area Sq. Ft
Front porch Area Sq. Ft
Back porch Area Sq. Ft
Garage Area Sq. Ft
Total area square footage:
Information provided with application
Proof of ownership by: Warranty Deed Property appraiser:
Notice of Commencement: Yes No NOT RECORDED
Onsite waste water disposal system application: YesNoCity Sewer
Energy Code compliance: Yes No Manual J: Yes No
Owner Builder Disclosure Statement: YesNoN/A
Potable water well specification: YesNoWater system
City of Fort White approval letter. YesNoN/A/
Culvert status: culvert permit culvert waiver Have existing drive
Power by: FP&L / Clay Elect Suwannee Valley Progressive
Month log, Computer File Name

#### COLUMBIA COUNTY BUILDING DEPARTMENT

### COMMERCIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001 WITH AMENDMENTS

ALL REQUIREMENTS LISTED ARE SUBJECT TO CHANGE EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INCLUDE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 WITH AMENDMENTS BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SIGNATURE AND SEAL OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE FOLLOWING BASIC WIND SPEED AS PER SECTION 1606 SHALL BE USED.

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing a floor plan, site plan, foundation plan,

W	IND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INT	<b>ERSTATE 75</b>
1.	ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE	100 MPH
2.	ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE	110 MPH
3	NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION	

#### APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

e) Calculated fire resistance

	ning plan or tru	iss layout, wall sections and all exterior elevations with the following criteria and
documents:	Diamaterralia	
Applicant	Plans Examir	
		All drawings must be clear, concise and drawn to scale ("Optional" details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
		Designers name and signature on document (FBC 104.2.1) If licensed architect or engineer, official seal shall be affixed.
		Two (2) Copies of Approved Site Plan
		Minimum Type Construction (FBC Table 500) SCCTION 303 A-3  Minimum Type Construction (FBC Table 500) ASSEMBLY Group A Library
		<ul> <li>Wind Load Engineering Summary, calculations and any details required:</li> <li>a) Plans or specifications must state compliance with FBC Section 1606</li> <li>b) The following information must be shown as per section 1606.1.7 FBC</li> <li>1. Basic wind speed (MPH)</li> <li>// 2. Wind importance factor (I) and building category</li> <li>3. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated</li> <li>4. The applicable internal pressure coefficient</li> <li>5. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifically designed by the registered design professional</li> </ul>
0 0 0	0 0 0	Fire Resistant Construction Requirements shall include:  a) Fire resistant separations (listed system) b) Fire resistant protection for type of construction c) Protection of openings and penetrations of rated walls (listed systems) d) Fire blocking and draft-stopping

#### ROOFING ASSEMBLY APPROVAL

Category: Sub-Category: Roofing

07310 Asphalt Shingles

Materials
Deck Type:

Dimensional Wood

1. SCOPE

This revises CertainTeed Landmark 30 and AR (and WideTrack QB), CertainTeed Landmark 40 and AR (and WideTrack QB), CertainTeed Landmark 50 and AR (and WideTrack QB) Shingles as manufactured by CertainTeed Corporation described in Section 2 of this Notice of Acceptance.

2. PRODUCT DESCRIPTION

2. PRODUCT DESCRIPT	LON		
Product	Dimensions	<u>Test</u> <u>Specifications</u>	Product Description
Certainteed Landmark 30 and AR (and WideTrack QB)	13¼" x 38¾"	PA 110	A heavy weight, 247lb/sq, dimensional asphalt shingle.
Certainteed Landmark 40 and AR (and WideTrack QB)	13¼" x 38¾"	PA 110	A heavy weight, 264lb/sq, dimensional asphalt shingle.
Certainteed Landmark 50 and AR (and WideTrack QB)	13 <sup>1</sup> / <sub>4</sub> " x 38 <sup>3</sup> / <sub>4</sub> "	PA 110	A heavy weight, 296lb/sq, dimensional asphalt shingle.
Accessory Shingles	various	proprietary	Accessory shingles for hip, ridge and starter strip applications.

#### 3. EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Underwriters Laboratories, Inc.	R684	UL 790	04/02/01
PRI Asphalt Technologies, Inc.	PCTC-01-02-01 CTC-006-02-01	PA 100	. 01/12/01 11/12/02
Underwriters Laboratories, Inc.	94NK9632 02NK42448	Wind uplift resistance PA 107	11/30/00 11/08/02

#### 4. LIMITATIONS

- 4.1 Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 4.2 Shall not be installed on roof mean heights in excess of 33 ft.

#### 5. INSTALLATION

- 5.1 Shingles shall be installed in compliance with Roofing Application Standard RAS 115.
- 5.2 Flashing shall be in accordance with Roofing Application Standard RAS 115
- 5.3 The manufacturer shall provide clearly written application instructions.
- 5.4 Exposure and course layout shall be in compliance with Detail 'A', attached.
- 5.5 Nailing shall be in compliance with Detail B', attached.



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		Fire Suppression Systems shall include: (To be reviewed by Fire Department)  a) Fire sprinklers b) Fire alarm system (early warning) with name of licensed installer. If not shown on plans or not known at time of permitting, a separate permit shall be required by the licensed installer
		c) Smoke evacuation system schematic d) Stand-pipes Pre-engineered system Riser diagram
		Life Safety Systems shall include: (To be reviewed by Fire Department)
		a) Occupancy load and egress capacity
		b) Early warning
		c) Smoke control
		d) Stair pressurization
		e) Systems schematic
		Occupancy Load/Egress Requirements shall include:
	0/	a) Occupancy load (gross and net)
		b) Means of egress
		exit access, exit and exit discharge
	<u></u>	c) Stair construction/geometry and protection
		d) Doors
		e) Emergency lighting and exit signs
		f) Specific occupancy requirements
		Construction requirements     Horizontal exits (exit passage uses)
		2. Horizontal exits/exit passageways
		Structural Requirements shall include:
		a) Soil conditions/analysis
		b) Show type of termite treatment (termicide or alternative method)
		c) Design loads
		d) Wind requirements
		e) Building envelope
		f) Structural calculations
		g) Foundations
		h) Wall systems
		i) Floor systems
		j) Roof systems
		k) Threshold inspection plan (if applicable)  I) Stair systems
_		1) Stall Systems
		Materials shall include:
		a) Wood
		b) Steel
		c) Aluminum
		d) Concrete
		e) Plastic
		f) Glass (mfg. Listing for wind zone including details for installation and
П		attachments
		g) Masonry
		h) Gypsum board and plaster
		i) Insulating (mechanical)
		<ul><li>j) Roofing (mfg. Listed system for wind zone with installation and attachments)</li><li>k) Insulation</li></ul>
-	_	ny modicatori

		Accessibility Requirements shall include:  a) Site requirements b) Accessible route c) Vertical accessibility d) Toilet and bathing facilities e) Drinking fountains f) Equipment g) Special occupancy requirements h) Fair housing requirements
		Interior Requirements shall include:  a) Interior finishes (flame spread/smoke develop) b) Light and ventilation c) Sanitation
		Special Systems shall include: a) Elevators b) Escalators c) Lifts
		<u>Swimming Pools – Commercial</u> – Plans shall be signed and sealed by a Professional Engineer registered in the State of Florida and approved by the Department of Business and Professional Regulation/Health Department Indicating compliance with the Florida Administrative Code, Chapter 64E-9 And Section 424 of the Florida Building Code
12	п	Electrical:
		<ul> <li>Electrical wiring, services, feeders and branch circuits, over-current protection, grounding, wiring methods and materials, GFCIs</li> </ul>
		b) Equipment
		c) Special Occupancies d) Emergency Systems
		e) Communication Systems
		f) Low Voltage
		g) Load calculations
		h) Riser diagram
		Plumbing: a) Minimum plumbing facilities b) Fixture requirements c) Water supply piping d) Sanitary drainage e) Water heaters f) Vents g) Roof drainage h) Back flow prevention i) Irrigation j) Location of water supply
		k) Grease traps  I) Environmental requirements
		m) Plumbing riser

	Mechanical:
	a) Energy calculation (signed and sealed by Architect or Engineer, registered in the State of Florida)
	<ul> <li>b) Exhaust systems (clothes dryer exhaust, kitchen equipment exhaust, Specialty equipment exhaust)</li> </ul>
	c) Equipment
	d) Equipment location
	e) Make-up air
	f) Roof mounted equipment
	g) Duct systems
	h) Ventilation
	i) Combustion air
	j) Chimneys, fireplaces and vents
	k) Appliances
	I) Boilers
	m) Refrigeration
	n) Bathroom ventilation
	o) Laboratory
	Gas:
	a) Gas piping
	b) Venting
	c) Combustion air
	d) Chimney's and vents
	e) Appliances
	f) Type of gas
	g) Fireplaces
	h) LP tank locations
	i) Riser diagram/shut offs
_	y rassi diagraminana ono
	Disclosure Statement for Owner Builders
	*** Notice of Commencement Required Before Any Inspections will be Done
	Private Potable Water:  a) Size of pump motor  b) Size of pressure tank  c) Cycle stop valve if used

#### THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS:

1. <u>Building Permit Application:</u> A current Building Permit Application form is to be completed and submitted for all construction projects; If you were required to have a Site and Development Plan Approval, list SDP number.

. . . . . . . .

- 2. <u>Parcel Number:</u> The parcel number (Tax ID number) from the Property Appraiser is required. A copy of property deed is also requested. (386) 758-1084
- 3. Environmental Health Permit or Sewer Tap Approval: A copy of the Environmental Health permit, existing septic tank approval or sewer tap is required
- 4. <u>City Approval</u>: If the project is located within the city limits of the Town of Fort White prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321
- 5. Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of section 8.8 of the Columbia County Land Development Regulations. Any project that is located within a flood zone where the base flood elevation (100 year flood) has not been established shall meet the requirements of section 8.7 of the Columbia County Land Development Regulations. CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.

A development permit will also be required. The development permit cost is \$50.00

- 6. <u>Driveway Connection</u>: If the property does not have an existing access to a public road, then an application for a culvert permit must be made (\$25.00). Culvert installation for commercial, industrial and other uses shall conform to the approved site plan or to the specifications of a registered engineer. Joint use culverts will comply with Florida Department of Transportation specifications. If the project is to be located on a F.D.O.T. maintained road, then an F.D.O.T. access permit is required.
- 7. <u>Suwannee River Water Management District Approval:</u> All commercial projects must have an SRWMD permit issued or an exemption letter, before a building will be issued.

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE – TIME WILL NOT ALLOW THIS – PLEASE DO NOT ASK

### **NOTICE:**

### **ADDRESSES BY APPOINTMENT ONLY!**

TO OBTAIN A 9-1-1 ADDRESS THE REQUESTER MUST CONTACT THE COLUMBIA COUNTY 9-1-1 ADDRESSING DEPARTMENT AT (386) 752-8787 FOR AN APPOINTMENT TIME AND DATE:

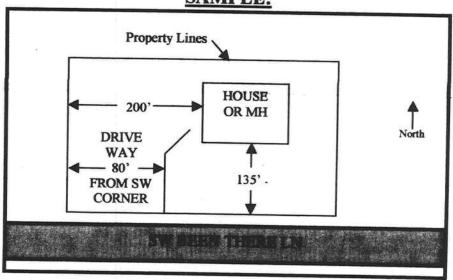
## YOU CAN NOT OBTAIN A NEW ADDRESS OVER THE TELEPHONE. MUST MAKE AN APPOINTMENT!

THE ADDRESSING DEPARTMENT IS LOCATED AT 263 NW LAKE CITY AVENUE (OFF OF WEST U.S. HIGHWAY 90 WEST OF INTERSTATE 75 AT THE COLUMBIA COUNTY EMERGENCY OPERATIONS CENTER).

#### THE REQUESTER WILL NEED THE FOLLOWING:

- THE PARCEL OR TAX ID NUMBER (SAMPLE: "25-4S-17-12345-123" OR "R12345-123) FOR THE PROPERTY.
- 2. A PLAT, PLAN, SITE PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
  - a. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
  - b. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
  - c. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

#### SAMPLE:



NOTE: 5 TO 7 WORKING DAYS MAY BE REQUIRED IF ADDRESSING DEPARTMENT NEEDS TO CONDUCT AN ON SITE SURVEY.

Project Information for:

L111743

Builder:

**BLAKE CONSTRUCTION** 

Date:

9/15/2005

Lot: Subdivision:

N/A 7443 W US 90 Start Number:

072

County or City: Truss Page Count: COLUMBIA COUNTY

Truss Design Load Information (UNO)

Gravity

Design Program: MiTek 5.2 / 6.2

Wind

**Building Code:** 

FBC2001

Roof (psf):

42

Wind Standard:

**ASCE 7-98** 

Floor (psf): 55 Wind Speed (mph): 110

Note: See individual truss drawings for special loading conditions

#### Building Designer, responsible for Structural Engineering: (See attached)

LUNDE, BLAKE N II RR 0067618

Address:

2250 SW JAGUAR DR

LAKE CITY, FL. 32025

Designer:

62

Truss Design Engineer: Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987

Company:

Structural Engineering and Inspections, Inc. EB 9196

Address

16105 N. Florida Ave, Ste B, Lutz, FL 33549

Notes:

1. Truss Design Engineer is responsible for the individual trusses as components only.

2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI 1-1995 Section 2.2

3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.

#	Truss ID	Dura #	Caal Data	- 11			
1	CJ1	Dwg. # 091505072	Seal Date	#	Truss ID	Dwg. #	Seal Date
2	CJ3	091505072	9/15/2005				
3	CJ5		9/15/2005				
4	EJ7	091505074	9/15/2005				
5	HJ9	091505075	9/15/2005				
6	PB01	091505076	9/15/2005				
7	PB01	091505077	9/15/2005				
8	PB02	091505078	9/15/2005				
9		091505079	9/15/2005				
10	PB04	091505080	9/15/2005				
	T01	091505081	9/15/2005				
11	T01G	091505082	9/15/2005				
12	T02	091505083	9/15/2005				
13	T03	091505084	9/15/2005				
14	T04	091505085	9/15/2005				
15	T05	091505086	9/15/2005				
16	T06	091505087	9/15/2005				
17	T07	091505088	9/15/2005				
18	T08	091505089	9/15/2005				
19	T09	091505090	9/15/2005				
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#### Licensee Details

#### Licensee Information

Name:

LUNDE, BLAKE N II (Primary Name)

BLAKE CONSTRUCTION (DBA Name)

Main Address:

LAKE CITY Florida 32025

**872 SW JAGUAR DR** 

License Mailing:

LicenseLocation:

2250 SW JAGUAR DR LAKE CITY FL 32025

#### License Information

License Type:

Registered Residential Contractor

Rank:

Reg Residential

License Number:

RR0067618

Status:

Current, Active

Licensure Date:

03/13/2001

08/31/2005

Expires:



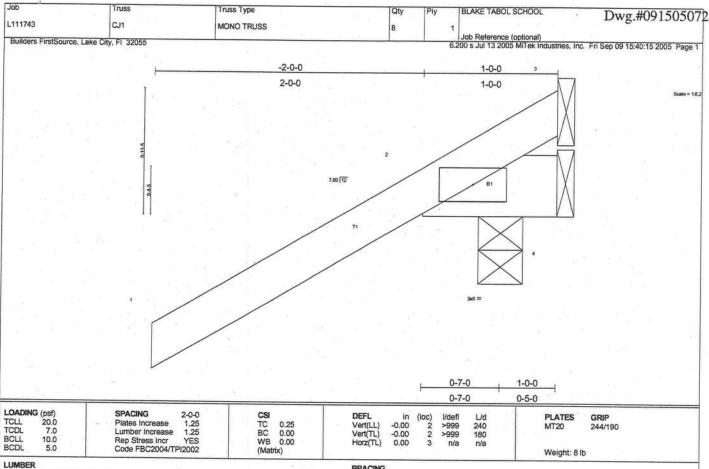
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TOP CHORD 2 X 4 SYP No.2D BOT CHORD 2 X 6 SYP No.1D

BRACING

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 1-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

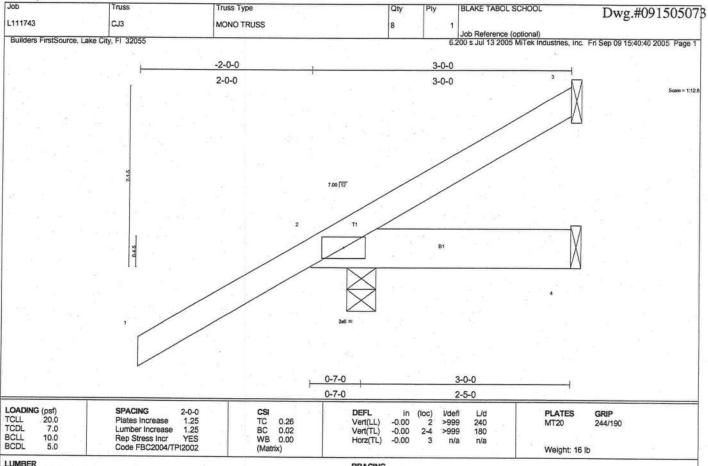
REACTIONS (lb/size) 2=267/0-4-0, 4=14/Mechanical, 3=-91/Mechanical Max Horz 2=103(load case 5)
Max Uplift2=-293(load case 5), 3=-91(load case 1)
Max Grav 2=267(load case 1), 4=14(load case 1), 3=146(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/56, 2-3=-70/83 BOT CHORD 2-4=0/0

#### NOTES

Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 2 and 91 lb uplift at joint 3.



TOP CHORD 2 X 4 SYP No.2D BOT CHORD 2 X 6 SYP No.1D

BRACING TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied or 3-0-0 oc purlins. Rigid celling directly applied or 10-0-0 oc bracing.

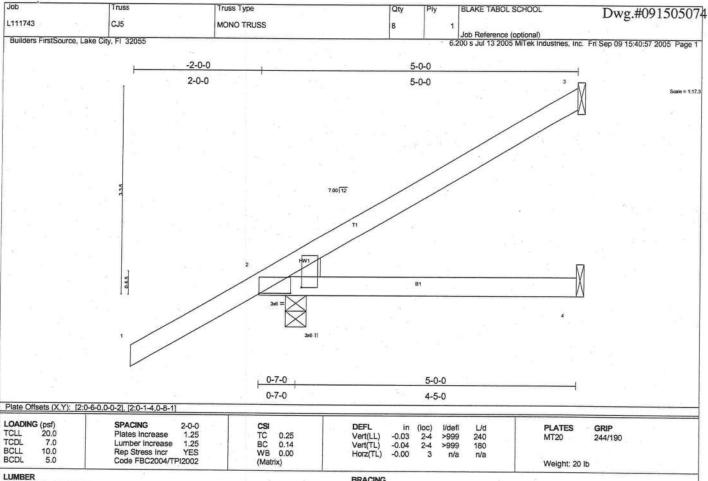
REACTIONS (lb/size) 3=29/Mechanical, 2=279/0-4-0, 4=42/Mechanical
Max Horz 2=155(load case 5)
Max Uplift3=-23(load case 4), 2=-207(load case 5)
Max Grav 3=32(load case 3), 2=279(load case 1), 4=42(load case 1)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/57, 2-3=-62/15 BOT CHORD 2-4=0/0

NOTES

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 3 and 207 lb uplift at joint 2.



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

Left: 2 X 4 SYP No.3

BRACING

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=102/Mechanical, 2=344/0-4-0, 4=72/Mechanical

Max Horz 2=207(load case 5)
Max Uplift3=-95(load case 5), 2=-192(load case 5)

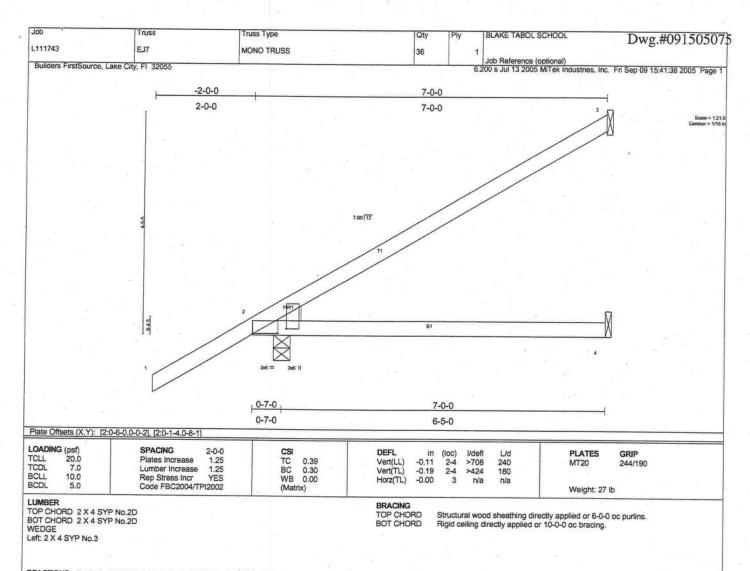
FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/54, 2-3=-81/40 BOT CHORD 2-4=0/0

1) Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for

MWFRS for reactions specified.

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

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 3 and 192 lb uplift at joint 2.



REACTIONS (lb/size) 3=161/Mechanical, 2=420/0-4-0, 4=104/Mechanical Max Horz 2=261(load case 5)

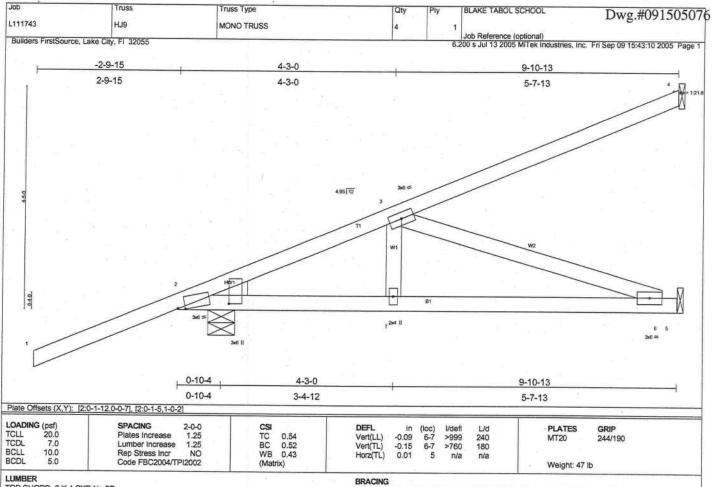
Max Uplift3=-146(load case 5), 2=-198(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/54, 2-3=-111/64 BOT CHORD 2-4=0/0

Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

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

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 3 and 198 lb uplift at joint 2.



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

WEBS 2 X 4 SYP No.3 WEDGE

Left: 2 X 4 SYP No.3

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=268/Mechanical, 2=537/0-6-6, 5=374/Mechanical Max Horz 2=316(load case 4)

Max Uplift4=-248(load case 4), 2=-264(load case 4), 5=-70(load case 4)

FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/58, 2-3=-774/57, 3-4=-126/75 1-2=0/58, 2-3=-774/57, 3-4=-126/75 2-7=-286/699, 6-7=-286/699, 5-6=0/0 3-7=0/178, 3-6=-736/301 BOT CHORD WEBS

Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
 Refer to girder(s) for truss to truss connections.

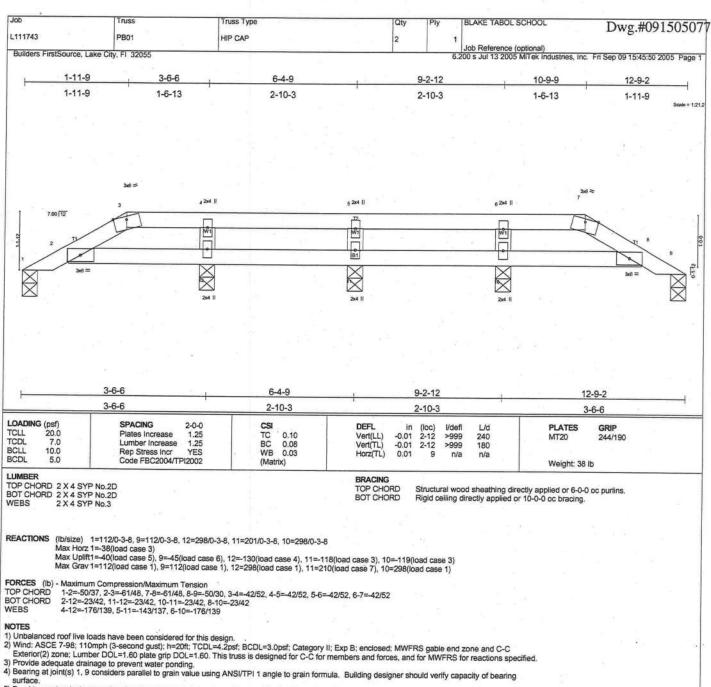
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 4, 264 lb uplift at joint 2 and 70 lb uplift at joint 5.
  4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

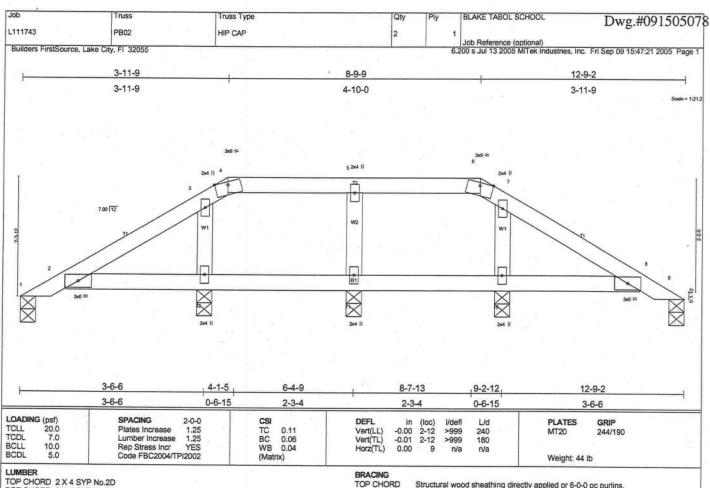
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (ptf) Vert: 1-2=-54

Trapezoidal Loads (pff)
Vert: 2=-4(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=15, B=15)-to-5=-74(F=-22, B=-22)



5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 1, 45 lb uplift at joint 9, 130 lb uplift at joint 12, 118 lb uplift at joint 11 and 119 lb uplift at joint 10.



TOP CHORD 2 X 4 SYP No.2D BOT CHORD 2 X 4 SYP No.2D WEBS 2 X 4 SYP No.3

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=60/0-3-8, 9=60/0-3-8, 11=232/0-3-8, 12=334/0-3-8, 10=334/0-3-8

Max Horz 1=78(load case 4)

Max Uplift1=-16(load case 6), 9=-32(load case 3), 11=-118(load case 4), 12=-131(load case 5), 10=-116(load case 6)

Max Grav1=76(load case 7), 9=76(load case 8), 11=238(load case 7), 12=334(load case 1), 10=334(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension

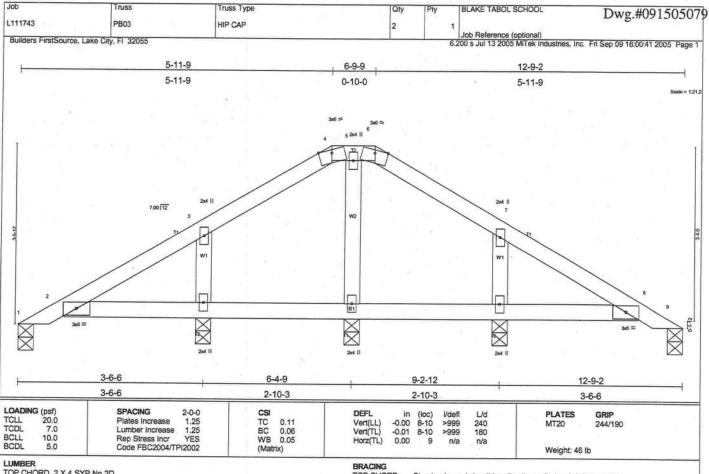
1-2=-68/79, 2-3=-75/156, 3-4=0/72, 6-7=0/75, 7-8=-52/156, 8-9=-33/20, 4-5=-8/92, 5-6=-8/92, 2-12=-92/91, 11-12=-92/91, 10-11=-92/91, 8-10=-92/91 TOP CHORD

BOT CHORD WEBS 5-11=-163/137, 3-12=-222/148, 7-10=-222/148

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide adequate drainage to prevent water ponding.
4) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 32 lb uplift at joint 9, 118 lb uplift at joint 11, 131 lb uplift at joint 12 and 116 lb uplift at joint 10.



TOP CHORD 2 X 4 SYP No.2D BOT CHORD 2 X 4 SYP No.2D 2 X 4 SYP No.3 WEBS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing. BOT CHORD

REACTIONS (lb/size) 1=66/0-3-8, 9=66/0-3-8, 11=303/0-3-8, 12=293/0-3-8, 10=293/0-3-8

Max Horz 1=-119(load case 3)

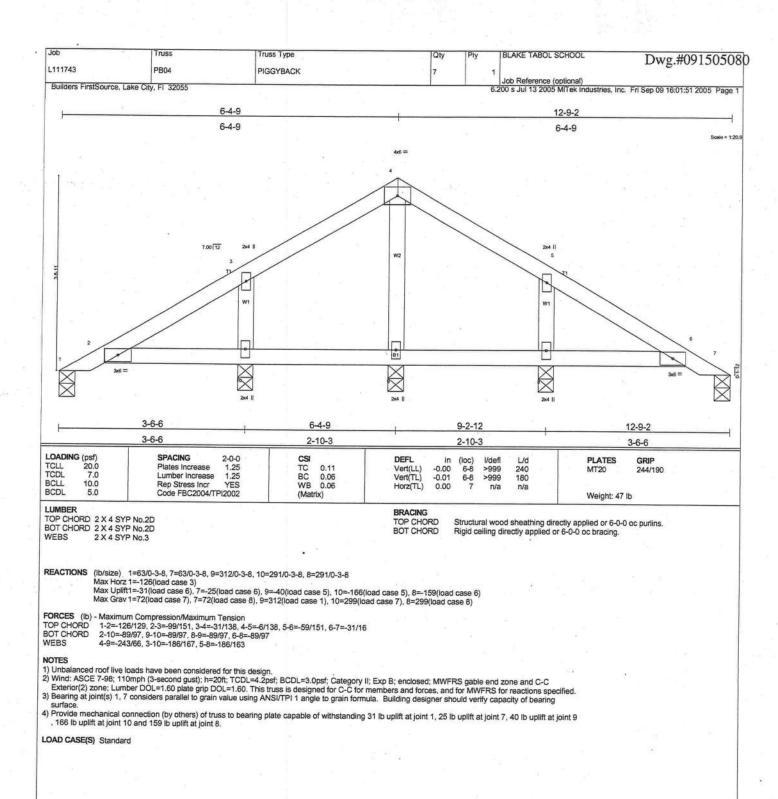
Max Uplift1=-30(load case 6), 9=-26(load case 6), 11=-34(load case 4), 12=-165(load case 5), 10=-157(load case 6)

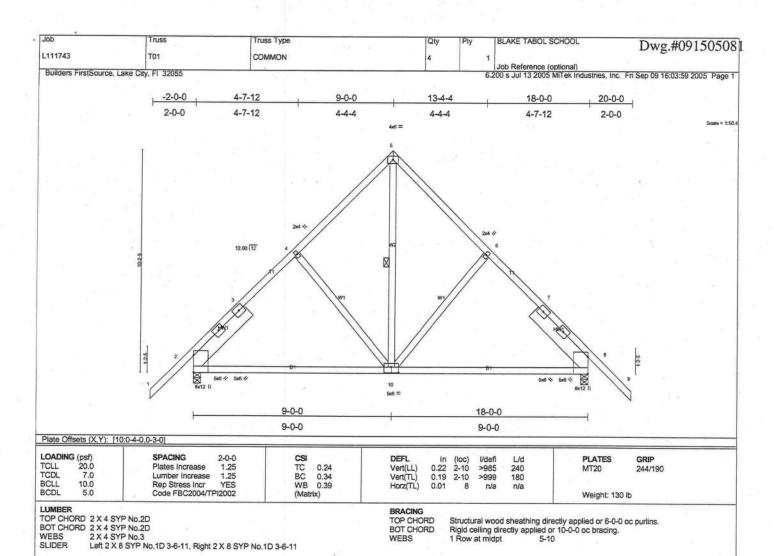
Max Grav 1=74(load case 7), 9=74(load case 8), 11=303(load case 1), 12=300(load case 7), 10=300(load case 8)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD
1-2=-117/121, 2-3=-89/144, 3-4=-20/113, 6-7=-3/113, 7-8=-53/144, 8-9=-32/17, 4-5=0/83, 5-6=0/83
BOT CHORD
WEBS
5-11=-235/72, 3-12=-186/165, 7-10=-186/161

- 1) Unbalanced roof live loads have been considered for this design.
  2) Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
  3) Provide adequate drainage to prevent water ponding.
  4) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1, 26 lb uplift at joint 9, 34 lb uplift at joint 11, 165 lb uplift at joint 12 and 157 lb uplift at joint 10.





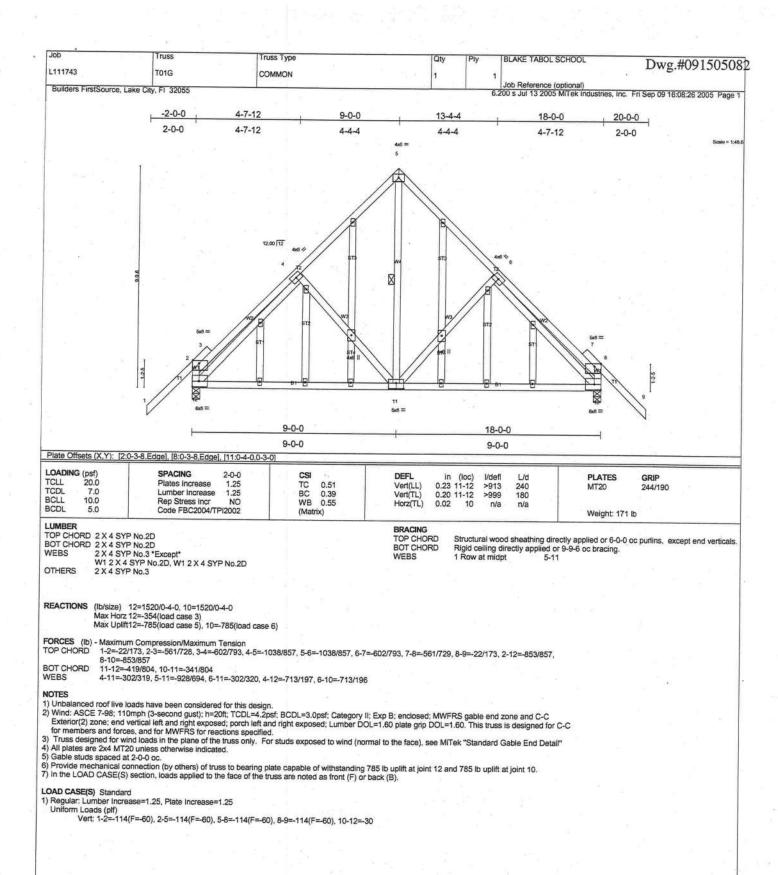
REACTIONS (lb/size) 2=864/0-4-0, 8=864/0-4-0 Max Horz 2=348(load case 4)

Max Uplift2=-532(load case 5), 8=-532(load case 6)

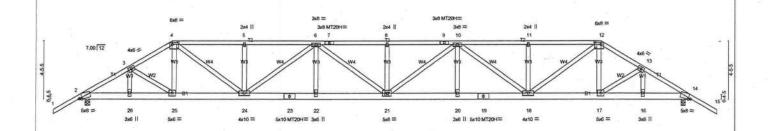
FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD
TOP CHORD
12=0/54, 2-3=-764/652, 3-4=-672/683, 4-5=-593/733, 5-6=-593/733, 6-7=-672/683, 7-8=-764/652, 8-9=0/54
WEBS
4-10=-148/270, 5-10=-958/464, 6-10=-148/271

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust): h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 532 lb uplift at joint 2 and 532 lb uplift at joint 8.



Job		Truss		Truss Type		Qty	Ply	BLAKE TABOL SCHOOL	DL ]	Dwg.#0	91505083
Builders First	tSource, Lake	T02 e City, FI 3205	5	HIP		2		Job Reference (options 00 s Jul 13 2005 MiTek		ep 09 16:09:30	2005 Page 1
-2-0-0	3-8-13	7-0-0	12-6-13	17-11-15	23-5-0	28-10-1	34-	3-3 39-10	0-0 43-1-3	46-10-0	48-10-0
2-0-0	3-8-13	3-3-3	5-6-13	5-5-1	5-5-1	5-5-1	5-	5-1 5-6-	13 3-3-3	3-8-13	2-0-0 Scale = 1:84.3 Camber = 3/8 in



46-10-0

0 <sub>t</sub> 7 <sub>t</sub> 03-8-13	7-0-0	12-6-13	17-11-15	23-5-0	28-10-1	34-3-3	39-10-0	43-1-3	46-3-0
0-7-03-1-13	3-3-3	5-6-13	5-5-1	5-5-1	5-5-1	5-5-1	5-6-13	3-3-3	3-1-130-7-0

LOADIN	G (psf)	SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.64	Vert(LL)	0.68	21	>821	240	MT20	244/190
TCDL	7.0	Lumber Increase	1.25	BC	0.72	Vert(TL)	-1.04	21	>537	180	MT20H	187/143
BCLL	10.0	Rep Stress Incr	NO	WB	0.66	Horz(TL)	0.19	14	n/a	n/a		
BCDL	5.0	Code FBC2004/TI	PI2002	(Mati	rix)	8.2					Weight: 601	lb

LUMBER

TOP CHORD 2 X 4 SYP No.2D BOT CHORD 2 X 6 SYP No.1D WEBS

2 X 4 SYP No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or 3-6-13 oc purlins. Rigid ceiling directly applied or 6-11-4 oc bracing.

BOT CHORD

REACTIONS (lb/size) 2=4213/0-4-0, 14=4213/0-4-0

(ID/SIZE) 2=4213/04-0, 14-213/04-05 Max Horz 2=-147(load case 2) Max Uplift2=-2267(load case 3), 14=-2267(load case 2)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD
1-2=0/67, 2-3=-7429/4134, 3-4=-7527/4322, 4-5=-9830/5735, 5-6=-9829/5736, 6-7=-12449/7225, 7-8=-12449/7225, 8-9=-12449/7225,
9-10=-12449/7225, 10-11=-9829/5735, 11-12=-9830/5735, 12-13=-7527/4322, 13-14=-7429/4136, 14-15=0/57
BOT CHORD
2-26=-3613/6312, 25-26=-3613/6312, 24-25=-3796/6527, 23-24=-6895/11847, 22-23=-6895/11847, 21-22=

2-20-21=-6833/11847, 19-20=-6833/11847, 18-19=-6833/11847, 17-18=-3649/6527, 16-17=-3467/6312, 14-16=-3467/6312, 3-26=-191/168, 3-25=-365/321, 4-25=-369/878, 4-24=-2475/4123, 5-24=-627/672, 6-24=-2550/1534, 6-22=0/416, 6-21=-480/783, 8-21=-618/648, 10-21=-481/783, 10-20=0/416, 10-18=-2550/1533, 11-18=-627/672, 12-18=-2476/4123, 12-17=-369/878, 13-17=-366/321, 13-16=-191/167

#### NOTES

WEBS

 2-ply truss to be connected together with 0.131"x3" Nails as follows: Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc

Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections
- have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

  4) Wind: ASCE 7-98: 110mph (3-second guest); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed: Lumber DOL=1.60 plate grip DOL=1.60.
- Provide adequate drainage to prevent water ponding.
   All plates are MT20 plates unless otherwise indicated.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2267 lb uplift at joint 2 and 2267 lb uplift at joint 14. 8) Girder carries hip end with 7-0-0 end setback.

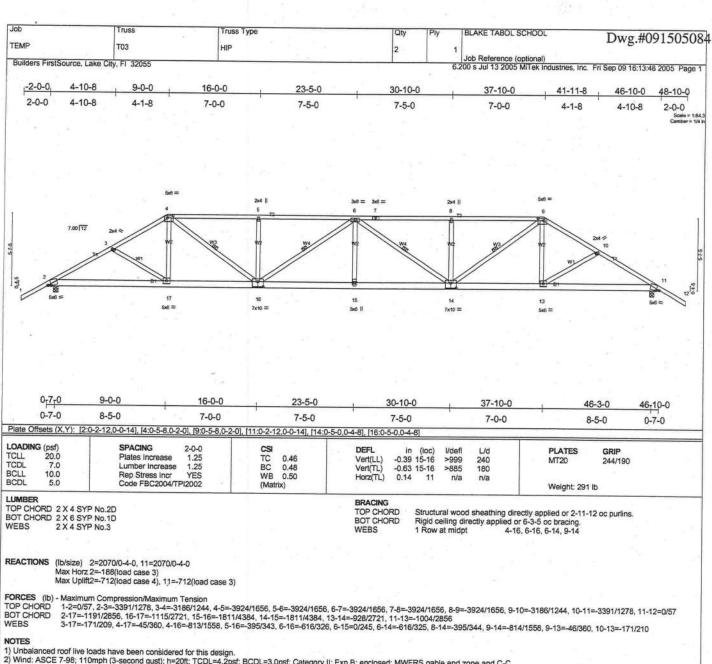
b) Glade Callies in period with 70-05 et a setudata.

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 374 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

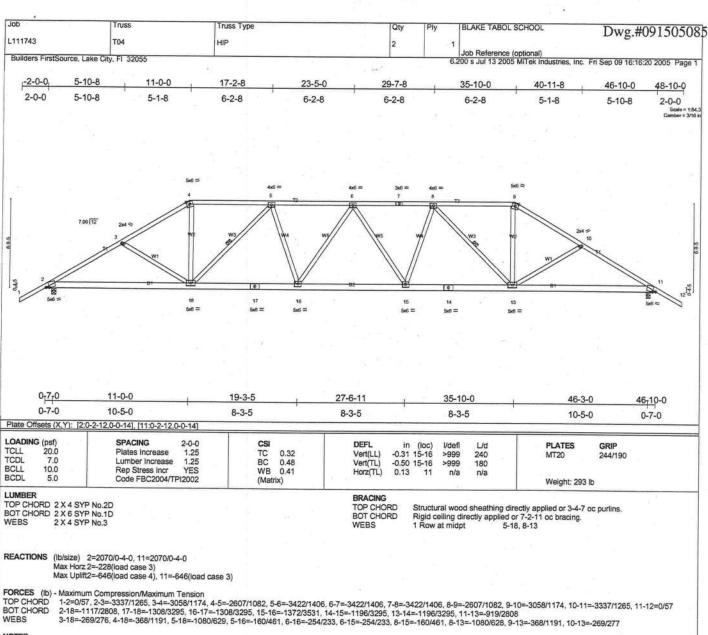
1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (pif) Vert: 1-4=-54, 4-12=-117(F=-63), 12-15=-54, 2-25=-30, 17-25=-65(F=-35), 14-17=-30

Vert: 25=-539(F) 17=-539(F)



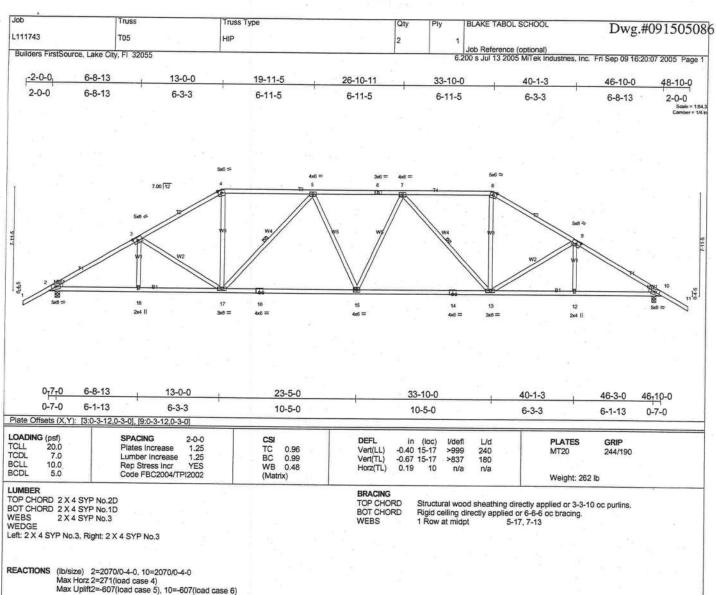
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantiliever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 712 lb uplift at joint 2 and 712 lb uplift at joint 11.



1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 646 lb uplift at joint 2 and 646 lb uplift at joint 11.



FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-3=-3367/1205, 3-4=-2871/1131, 4-5=-2425/1053, 5-6=-2974/1244, 6-7=-2974/1244, 7-8=-2425/1053, 8-9=-2871/1131,

9-10=-3367/1205, 10-11=0/54 2-18=-1005/2809, 17-18=-1003/2817, 16-17=-1057/2899, 15-16=-1057/2899, 14-15=-985/2899, 13-14=-985/2899, 12-13=-857/2817, 10-12=-859/2809

WEBS

3-18=0/184, 3-17=-481/299, 4-17=-311/1037, 5-17=-825/517, 5-15=-50/251, 7-15=-50/251, 7-13=-825/517, 8-13=-311/1037, 9-13=-481/300,

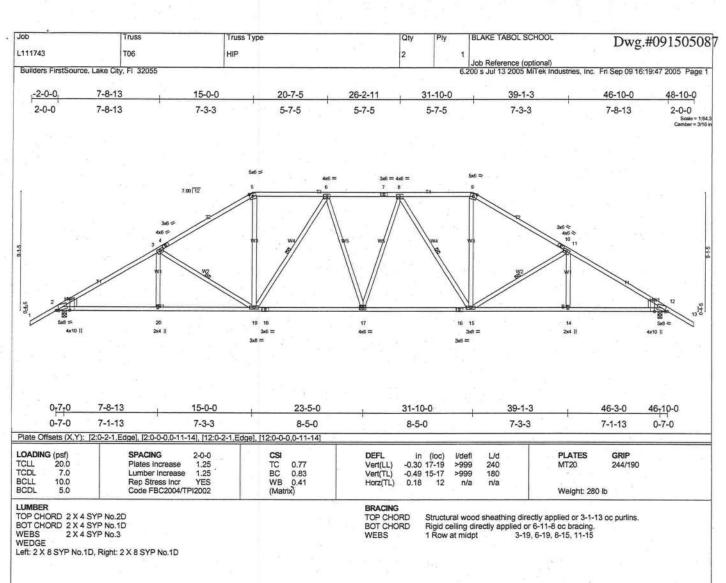
9-12=0/184

#### NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 607 lb uplift at joint 2 and 607 lb uplift at joint 10.



REACTIONS (lb/size) 2=2070/0-4-0, 12=2070/0-4-0

Max Horz 2=-312(load case 3)
Max Uplift2=-631(load case 5), 12=-631(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD

1-2=0/54, 2-3=-3341/1183, 3-4=-2720/1057, 4-5=-2705/1088, 5-6=-2274/1020, 6-7=-2570/1120, 7-8=-2570/1120, 8-9=-2274/1020, 9-10=-2705/1088, 10-11=-2720/1057, 11-12=-3341/1183, 12-13=0/54
2-20=909/2780, 19-20=-909/2780, 18-19=-812/2529, 17-18=-812/2529, 16-17=-746/2529, 15-16=-746/2529, 14-15=-827/2780,

12-14=-827/2780 WEBS 3-20=0/245, 3-19=-616/360, 5-19=-295/965, 6-19=-621/427, 6-17=-81/224, 8-17=-81/224, 8-15=-621/427, 9-15=-295/965, 11-15=-616/360,

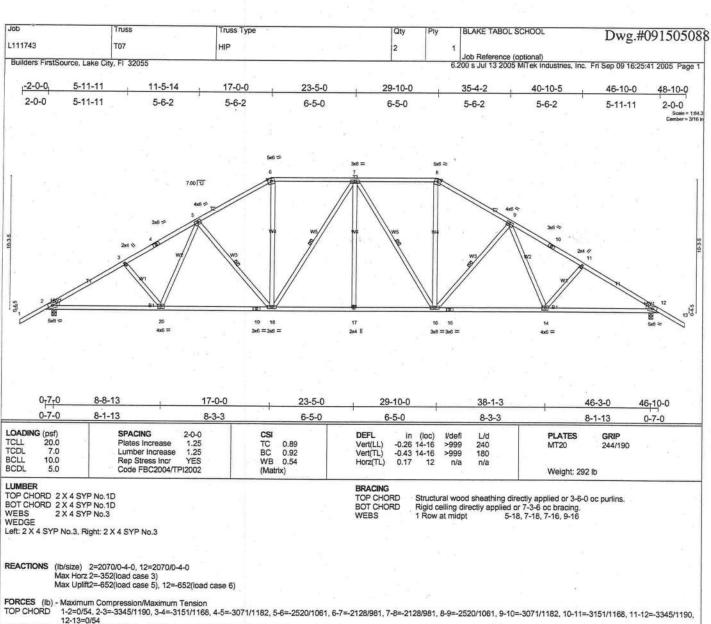
11-14=0/245

#### NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 631 lb uplift at joint 2 and 631 lb uplift at joint 12.



2-20-851/2799, 19-20=-725/2469, 18-19=-725/2469, 17-18=-599/2266, 16-17=-599/2266, 15-16=-671/2469, 14-15=-671/2469, 12-14=-851/2799 3-20=-234/238, 5-20=-136/490, 5-18=-556/356, 6-18=-305/902, 7-18=-452/344, 7-17=0/164, 7-16=-452/344, 8-16=-305/902, 9-16=-556/356, 9-14=-136/490, 11-14=-234/239 WEBS

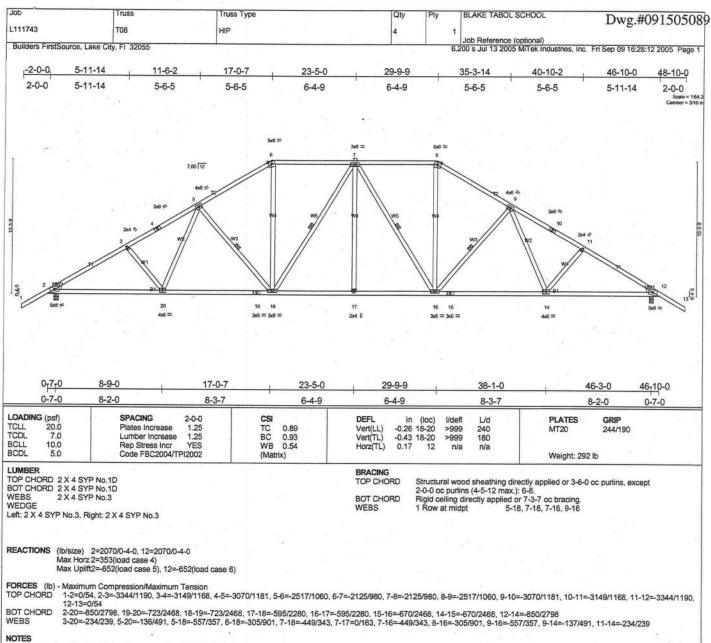
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and

for MWFRS for reactions specified.

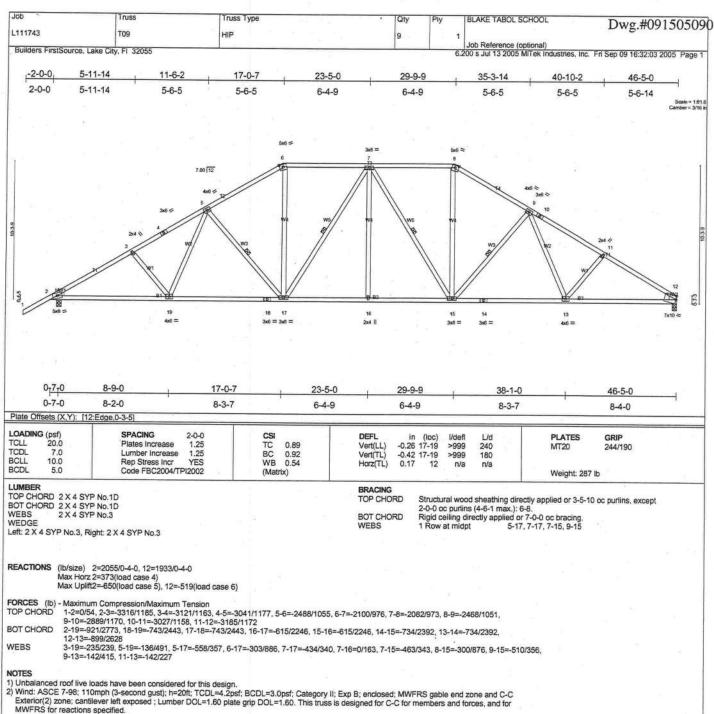
3) Provide adequate drainage to prevent water ponding.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 652 lb uplift at joint 2 and 652 lb uplift at joint 12.



1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 652 lb uplift at joint 2 and 652 lb uplift at joint 12.
5) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.



MWFRS for reactions specified.

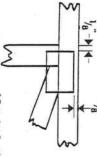
Provide adequate drainage to prevent water ponding.
 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 650 lb uplift at joint 2 and 519 lb uplift at joint 12.
 Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.

# Symbols

# PLATE LOCATION AND ORIENTATION



Center plate on joint unless dimensions indicate otherwise securely seat. plates to both sides of truss and Dimensions are in inches, Apply



\* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



 This symbol indicates the required direction of slots in connector plates

## PLATE SIZE

4 × 4

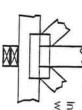
to slots. dimension is the length parallel The first dimension is the width perpendicular to slots. Second

# LATERAL BRACING



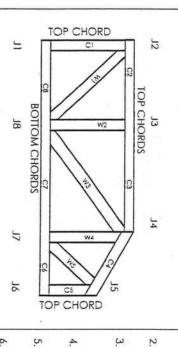
Indicates location of required continuous lateral bracing.

## BEARING



which bearings (supports) occur. Indicates location of joints at

# Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

# CONNECTOR PLATE CODE APPROVALS

ICBO

BOCA

96-31, 96-67

3907, 4922

SBCCI

9667, 94324

WISC/DILHR 960022-W, 970036-N

561

NER





MiTek Engineering Reference Sheet: MII-7473

# Failure to Follow Could Cause Property Damage or Personal Injury

General Safety Notes

- Provide copies of this truss design to the building designer, erection supervisor, properly owner and all other interested parties.
- 2 Cut members to bear tightly against each
- ω Place plates on each face of truss at each at joint locations joint and embed fully. Avoid knots and wane
- Unless otherwise noted, locate chord splices at 1/4 panel length (± 6" from adjacent joint.)
- 6 Unless expressly noted, this design is not applicable for use with fire retardant or Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 7. Camber is a non-structural consideration and preservative treated lumber.
- 8 Plate type, size and location dimensions is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Lumber shall be of the species and size, and shown indicate minimum plating requirements
- 10. Top chords must be sheathed or purlins in all respects, equal to or better than the grade specified.
- 11. Bottom chords require lateral bracing at 10 unless otherwise noted. ft. spacing, or less, if no ceiling is installed provided at spacing shown on design.
- 12. Anchorage and / or load transferring others unless shown. connections to trusses are the responsibility of
- 13. Do not overload roof or floor trusses with stacks of construction materials
- 14. Do not cut or alter truss member or plate engineer. without prior approval of a professional
- 15. Care should be exercised in handling. erection and installation of trusses

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Inst:2005023509 Date:09/22/2005 Time:14:37

DC,P.DeWitt Cason,Columbia County B:1059 P:1123

After Recording Return To: Blake Construction Company 291 S. W. Sisters Welcome Rd., #102 Lake City, Florida 32025

P	ERMIT	NO.:	

TAX FOLIO NO.: 30-3S-16-02398-202

#### **Notice of Commencement**

#### STATE OF FLORIDA COUNTY OF COLUMBIA

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

- Description of property: See Attached
- General description of improvement: Construction of school library
- Owner information:
  - Name and address: Linnie Jordan, 7443 US 90 West, Lake City, FL 32055
  - b. Interest in property: Fee simple
  - Name and address of fee simple title holder (if other than Owner):
- Contractor: BLAKE CONSTRUCTION COMPANY, 291 S.W. Sisters Welcome Rd., Suite #102, Lake City, Florida 32025
- Surety:
  - Name and address:

None

b.

Amount of bond:

N/A

- Lender: None
- 7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by \$713.13(1)(a)7, Florida Statutes: None
- 8. In addition to himself, Owner designates N/A to receive a copy of the Lienor's Notice as provided in \$713.13(1)(b), Florida Statutes.
- 9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified:

BLAKE GINGLING TIGH COMPAN

By: Blake N. Lunde, II, President

The foregoing instrument was acknowledged before me this 9th day of June, 2005 by Blake N. Lunde, II, who is personally known to me and who did not take an oath.

(SEAL)

NORA L. TERRY
Notary Public - State of Florida
My Commission Expires Mar 24, 2009
Commission # DD 410803
Bonded By National Notary Assn.

Notary Public

Inst:2005023509 Date:09/22/2005 Time:14:37
\_\_\_\_\_\_DC,P.DeWitt Cason,Columbia County B:1059 P:1124

Legal Description

COMM SE COR OF NE1/4 OF NE1/4, RUN W 360 FT, CONT W 1390.01 FT TO W R/W LAKE WILSON WAY, S 2350.99 FT TO S R/W SUNSET LANE, NW ALONG R/W 661 FT FOR POB, CONT NW 661 FT, S 680 FT TO N R/W US-90, SE ALONG R/W 661 FT, N 680 FT TO POB. (AKA LOT 2 LAKE WILSON RANCHETTES S/D UNREC ACCORDING TO PRELIM PLOT PLAN & ALSO COMM SE COR OF NE1/4 OF NE1/4, RUN W 360 FT, CONT W 1390.01 FT TO W R/W LAKE WILSON WAY, RUN S ALONG R/W, 1418.49 FT, W 597.52 FT, S 735.13 FT, N 75 DG W 29.98 FT FOR POB, CONT N 75 DG W 661 FT, S 14 DG W 60 FT, S 75 DG E 661 FT, N 14 DG E 60 FT TO POB ORB 817-442, 1006-222,

@ CAM112M01 S CamaUSA Appraisal System 10/06/2005 8:27 Legal Description Maintenance Year T Property Sel 2005 R 30-3S-16-02398-202 7443 HIGHWAY 90 W LUNDE LINNIE F	Columbia 179520 Land AG 226367 Bldg 1908 Xfea 407795 TOTAL	County 001 * 000 001 002 B*
3 FT TO W R/W LAKE WILSON WAY, S 2350.99 FT TO LANE, NW ALONG R/W 661 FT FOR POB, CONT NW 66 TO N R/W US-90, SE ALONG R/W 661 FT, N 680 F LOT 2 LAKE WILSON RANCHETTES S/D UNREC ACCOR PLOT PLAN & ALSO COMM SE COR OF NE1/4 OF NE1 FT, CONT W 1390.01 FT TO W R/W LAKE WILSON WAY S R/W, 1418.49 FT, W 597.52 FT, S 735.13 FT, N FT FOR POB, CONT N 75 DG W 661 FT, S 14 DG W 61 FT FOR POB, CONT N 75 DG W 661 FT, S 14 DG W 61 G61 FT, N 14 DG E 60 FT TO POB ORB 817-442, 10 CORRECT DEED ORB 1048-1914)  23 OF NE/4 RUN W 360 FT, CONT W 1390.01 FT TO W S WILSON WAY, S 1418.49 FT, W 597.52 FT FOR P NORTH 569.74 FT	TT TO POB. (AKA 8 DING TO PRELIM 10 14, RUN W 360 12 14 75 DG W 29.98 16 0 FT, S 75 DG E 18 06-222, 20 COR OF NE1/4 22 R/W OF LAKE 24 OB, RUN SOUTH 26 7 6 80 64 FT 28 0/04/2005 KYLIE	+

# Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan Permit Application Number: 05-0643N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT BLAKE SCHOOL/CR 04-2873 10.92 acres North Public well TBM in 24" pecan tree 210' 220' 720 Waterline 95' to school building Site 1 Irrigation well Site 2 LIBRARY Slope 150' 210' 235' to property Swale line 660' Highway 41 1 inch = 60 feetSite Plan Submitted By Date Plan Approved V Not Approved Notes:

### **Columbia County Building Permit Application**

			6-9-05 By Perm	it #
	by - Lonning Official	Date	Diama E .	
	_ Development Permit	Zoning	Land Use Plan Map Ca	tegory
Comments				
Applicants Name	ako Construct	Tan Ca	0.3/	553
Address 291 Sw	Sisters Webon	10 Rd #	Phone 754-	5810
Owners Name Linn	il Tordan	e 101 - 11		
911 Address 7443	0	ake City, 1	Phone 752 -	8874
Contractors Name		- CITY	=L 32055	
Address 291 Sw	Sisters Welcon	20 Pd #1177	Phone 754-	
Fee Simple Owner Name	e & Address Linnie	Tordo o	~, LC 32025	
Bonding Co. Name & Ad	Idraea 1)			
Architect/Engineer Name	e & Address I im Dol	hone, 192,5	SU) Spagnan Cla	10 20
Mortgage Lenders Name	& Address	120	ayewas glen,	LC 32024
Circle the correct power	company - Fl Power & III	aht) Cl. Ti		
Property ID Number 30	-35-16-02398-20	gnv - Clay Elec	Suwannee Valley Elec	Progressive Energ
Subdivision Name A		Estimate	ed Cost of Construction	60000
Driving Directions 90	West-4/2 m	11/05 117 AC	Lot Block U	nit Phase
School on t	Right	mes way	1-15. See B	lake
				E.
	PY II NEW Library			
Type of Construction	Line Pull of II	Missonia	of Existing Dwellings on Du-	
Type of Construction 14  Total Acreage 16.92 La	of Size 10.97 Do you nee	Number	the Colonial State of Pro	perty
Actual Distance of Structur	re from Property Lines - From	a a - Culvert Permi	t or <u>Culvert Waiver</u> or Ho	ive an Existing Drive
Actual Distance of Structur	re from Property Lines - From	nt Side_	t or <u>Culvert Waiver</u> or <u>Ho</u>	eve an Existing Drive
Total Building Height	re from Property Lines - From Number of Stories	nt Side _ s Heated Fi	or <u>Culvert Waiver</u> or <u>Ho</u> Side  oor Area _2 760 Ro	rive an Existing Drive Rear Of Pitch
Total Building Height	re from Property Lines - From Number of Stories	nt Side _ s Heated Fi	or <u>Culvert Waiver</u> or <u>Ho</u> Side  oor Area <u>2760</u> Ro	rive an Existing Driv Rear of Pitch 7//2
Actual Distance of Structure  Total Building Height	re from Property Lines - From Number of Stories	nt Side _ s Heated Fi	or <u>Culvert Waiver</u> or <u>Ho</u> Side  oor Area <u>2760</u> Ro	rive an Existing Drive Rear Of Pitch
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### SUWANNEE RIVER WATER MANAGEMENT DISTRICT

9225 CR 49 LIVE OAK, FLORIDA 32060 TELEPHONE: (386) 362-1001 TELEPHONE: 800-228-1066 FAX (386) 362-1056

### GENERAL PERMIT

PERMITTEE: THE BLAKE SCHOOL 7443 HIGHWAY 90 WEST LAKE CITY, FL 32055

PERMIT NUMBER: ERP96-0127M2

DATE ISSUED: 06/29/2005 DATE EXPIRES: 06/29/2008 COUNTY: COLUMBIA

TRS: S30/T3S/R16E

PROJECT: THE BLAKE SCHOOL MODIFICATION #2

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

LINNIE JORDEN THE BLAKE SCHOOL 7443 HIGHWAY 90 WEST LAKE CITY, FL 32055

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource general permit is in effect for the permitted activity description below:

Previous permit issued for 0.23 acres of impervious surface on 10.00 acres. Modification consists of construction and operation of a surfacewater management system serving 0.63 acres of impervious surface on a total project area of 20.00 acres in a manner consistent with the application package submitted by Huey Hawkins, certified on June 6, 2005.

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing pursuant to ss.120.57(1), Florida Statutes (F.S.), and s.40B-1.511, F.A.C., if they object to the District's actions. Failure to request a hearing within 14 days will constitute a waiver of your right to request such a hearing. In addition, the District will presume that permittee waives Chapter 120,

Project: THE BLAKE SCHOOL MODIFICATION #2

Page 2 of 7

F.S., rights to object or appeal the action upon commencement of construction authorized by the permit.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

### Standard Conditions for All General Permits:

- 1. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.
- 2. Water quality data representative of the water discharged from the permitted system, including, but not limited to, the parameters in chapter 62-302, F.A.C., shall be submitted to the District as required. If water quality data are required, the permittee shall provide data as required on the volume and rate of discharge including the total volume discharged during the sampling period. All water quality data shall be in accordance with and reference the specific method of analysis in "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association or "Methods for Chemical Analysis of Water and Wastes" by the U.S. Environmental Protection Agency.
- 3. The operational and maintenance phase of an environmental resource permit will not become effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. If required by the District, such as-built certification shall be made by an engineer or surveyor. Within 30 days after the completion of construction of the system, the permittee shall notify the District that the facilities are complete. If appropriate, the permittee shall request transfer of the permit to the responsible entity approved by the District for operation and maintenance. The District may inspect the system and, as necessary, require remedial measures as a condition of transfer of the permit or release for operation and maintenance of the system.
- 4. Off-site discharges during and after construction shall be made only through the facilities authorized by the permit. Water discharged from the project shall be through structures suitable for

Project: THE BLAKE SCHOOL MODIFICATION #2

Page 3 of 7

regulating upstream stage if so required by the District. Such discharges may be subject to operating schedules established by the District.

- 5. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and chapter 40B-1, F.A.C.
- 6. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance, alteration, abandonment, or development in a Works of the District which is authorized by the permit.
- 7. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.
- 8. It is the responsibility of the permittee to obtain all other clearances, permits, or authorizations required by any unit of local, state, or federal government.
- 9. The surfacewater management system shall be constructed prior to or concurrent with the development that the system is intended to serve and the system shall be completed within 30 days of substantial completion of the development which the system is intended to serve.
- 10. Except for General Permits After Notice or permits issued to a unit of government, or unless a different schedule is specified in the permit, the system shall be inspected at least once every third year after transfer of a permit to operation and maintenance by the permittee or his agent to ascertain that the system is being operated and maintained in a manner consistent with the permit. A report of inspection is to be sent to the District within 30 days of the inspection date. If required by chapter 471, F.S., such inspection and report shall be made by an engineer.
- 11. The permittee shall allow reasonable access to District personnel or agents for the purpose of inspecting the system to insure compliance with the permit. The permittee shall allow the District, at its expense, to install equipment or devices to monitor performance of the system authorized by their permit.
- 12. The surfacewater management system shall be operated and maintained in a manner which is consistent with the conditions of the permit and chapter 40B-4.2040, F.A.C.
- 13. The permittee is responsible for the perpetual operation and maintenance of the system unless the operation and maintenance is transferred pursuant to chapter 40B-4.1130, F.A.C., or the permit is modified to authorize a new operation and maintenance entity pursuant to chapter 40B-4.1110.

Project: THE BLAKE SCHOOL MODIFICATION #2

Page 4 of 7

### F.A.C.

- 14. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
- 15. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
- 16. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.
- 17. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site-specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
- 18. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has temporarily or permanently ceased.
- 19. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40B-1.901(14) indicating the actual start date and the expected completion date.
- 20. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40B-1.901(15). These forms shall be submitted during June of each following year.

Project: THE BLAKE SCHOOL MODIFICATION #2

Page 7 of 7

- 27. The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.
- 28. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under 40B-400.046, F.A.C., provides otherwise.
- 29. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40B-4.1130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
- 30. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.
- 31. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by District Staff

Date Approved 6-30-05

Clerk

Executive Director

Project: THE BLAKE SCHOOL MODIFICATION #2

Page 5 of 7

- 21. For those systems which will be operated or maintained by an entity requiring an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by Paragraph 40B-4.2030(2)(g), F.A.C., and Rule 40B-4.2035, F.A.C., must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of District rules will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.
- 22. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.
- 23. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, using the supplied As-Built Certification Form No. 40B-1.901(16) incorporated by reference in Subsection 40B-1.901(16), F.A.C. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the system is ready for inspection. The statement of completion and certification shall be based on onsite observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of asbuilt drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:
- a. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps,

Project: THE BLAKE SCHOOL MODIFICATION #2

Page 6 of 7

pipes, and oil and grease skimmers;

- b. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
- c. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
- d. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
- e. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
- f. Existing water elevation(s) and the date determined; and
- g. Elevation and location of benchmark(s) for the survey.
- 24. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the condition in paragraph 23 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with Rule 40B-4.2035, F.A.C., accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the approved responsible operation and maintenance operating entity if different from the permittee. Until the permit is transferred pursuant to Rule 40B-4.1130, F.A.C., the permittee shall be liable for compliance with the terms of the permit.
- 25. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior to implementation so that a determination can be made whether a permit modification is required.
- 26. This permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and in this chapter and Chapter 40B-4, F.A.C.





### DBPR Home | Online Services Home | Help | Site Map

4:42:02 PA

### **Public Services**

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### User Services

Renew a License Change License Status Maintain Account Change My Address View Messages Change My PIN View Continuing Ed

Term Glossary



Online Help

### Licensee Details

### **Licensee Information**

Name: LUNDE, BLAKE NORMAN II (Primary Name)

INDIVIDUAL (DBA Name)

291 SW SISTERS WELCOME RD, #102 Main Address:

LAKE CITY Florida 32025-0750

County: **COLUMBIA** 

License Mailing:

LicenseLocation:

### **License Information**

License Type:

**Certified Building Contractor** 

Rank:

**Cert Building** 

License Number:

CBC1253408

Status:

Current, Active

Licensure Date:

09/26/2005

Expires:

08/31/2006

Special

Qualifications

**Qualification Effective** 

No Qualified

**Business License** 09/26/2005

Required

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### ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

### Florida Department of Community Affairs

EnergyGauge FlaCom v1.22 FORM 400A-2001

Whole Building Performance Method for Commercial Buildings

Jurisdiction: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

Short Desc: 504223A

Project: Edward L. Tabol Memorial Library

Owner: Address:

US 90 W City: Lake City

State: Florida

Zip: 0

PermitNo: 0 236 90

Storeys:

GrossArea:

Type: Assembly Class: New Finished building

2755 Net Area: 2755

Max Tonnage: 9 (if different, write in)

Compliance Summary						
Design	Criteria	Result				
99.97	100.00	PASSES				
		PASSES				
		PASSES				
		PASSES				
		PASSES				
		PASSES				
		PASSES				
		PASSES				
		Yes/No/NA				
	Design	Design Criteria				

IMPORTANT NOTE: An input report Print-Out from EnergyGauge FlaCom of this design building must be submitted along with this Compliance Report.

### **COMPLIANCE CERTIFICATION:**

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Efficiency Code.  PREPARED BY: Mark Disosway  DATE: 075EP05  I hereby certify that this building is in compliance with the Florida Energy Efficiency Code.  OWNER AGENT: DATE:	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S.  BUILDING OFFICIAL:  DATE:
If required by Florida law, I hereby certify (*) compliance with the Florida Energy Code.  ARCHITECT: ELECTRICAL SYSTEM DESIGNER: LIGHTING SYSTEM DESIGNER: MECHANICAL SYSTEM DESIGNER: PLUMBING SYSTEM DESIGNER:	that the system design is in  REGISTRATION No.

<sup>(\*)</sup> Signature is required where Florida Law requires design to be performed by registered design professionals. Typed names and registration numbers may be used where all relevant information is contained on signed/sealed plans.

Title: Edward L. Tabol Memorial Library

Type: Assembly

Location: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

(WEA File: JACKSON

### **Whole Building Compliance**

7 100
7 100
8 17
3 4
4 21
3 5
8 49
.6

Title: Edward L. Tabol Memorial Library

Type: Assembly

Location: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

(WEA File: JACKSON

### Other Envelope Requirements

Item	Zone	Description	Design	Limit	Meet Req.
Pr0Zo1Rf1	1St Floor	Exterior Roof - Max Uo Limit	0.03	0.09	Yes
Meets Oth	er Envelope	Requirements			

.2 2

Project: 504223A

Title: Edward L. Tabol Memorial Library

Type: Assembly

Location: COLUMBIA COUNTY, COLUMBIA COUNTY,

FL (221000)

(WEA File: JACKSON

External	Lighting	Compliance
ALIXECT MARKE	ALL AND ALL CARACTE	COMMISSION

Description	Category	Allowance (W/Unit)	CLP (W)		
Ext Light 1	Entrance (without Canopy)	30.00	12.0	360	400
Ext Light 2	Entrance (w/ Canopy) Light traffic-hospital, office, school	4.00	144.0	576	300
Ext Light 3	etc Building Exterior Surfaces/facades	0.25	1,200.0	300	400

Design: 1100 (W) Allowance: 1236 (W) **PASSES** 

Title: Edward L. Tabol Memorial Library

Type: Assembly

Location: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

(WEA File: JACKSON

### **Lighting Controls Compliance**

Acronym	Ashrae ID	Description	Area (sq.ft)	No. of Tasks	Design CP	Min CP	Compli- ance
PE Room	26	Offices (Partitions>4.5 ft below ceiling) Enclosed offices, all open plan offices without partitions	265	0	3	1	PASSES
Stor	47	Storage & Warehouse - Material Handling	71	1	2	2	PASSES
Area a-b	3	Classroom/Lecture Hall	774	1	8	4	PASSES
Hall	21	Lobby (General) - Reception and Waiting	382	1	4	2	PASSES
Bath Room X2	13	Toilet and Washroom	77	1	2	2	<b>PASSES</b>
Office	26	Offices (Partitions>4.5 ft below ceiling) Enclosed offices, all open plan offices without partitions	250	0	2 3	1	PASSES
Bath #2	13	Toilet and Washroom	30	1	1	1	<b>PASSES</b>
Stor 2	47	Storage & Warehouse - Material Handling	55	1	1	1	PASSES

Project: 504223A

Title: Edward L. Tabol Memorial Library

Type: Assembly

Location: COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)

(WEA File: JACKSON

### **System Report Compliance**

Pr0Sy1 System 1

**Constant Volume Packaged** 

**PASSES** 

No. of Units

System

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp- liance
Cooling System	Air Cooled 65000 to 135000 Btu/h Cooling Capacity		11.00	8.90	8.30	8.30	PASSES
Heating System	Air Cooled HP 65000 to 135000 Btu/h Clg Cap		3.00	3.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume		0.80	0.80			PASSES
Air Handling System - Return	Air Handler (Return) - Constant Volume		0.80	0.80			PASSES
Air Distribution System	ADS System		6.00	6.00			PASSES

**PASSES** 

Plant Compliance								
Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Comp

Title: Edward L. Tabol Memorial Library

Type: Assembly
Location: COLUMBIA COUNTY, COLUMBIA COUNTY,

FL (221000) (WEA File: JACKSON

Water	Heater	Comp	liance
vv atti	Heater	Comp	папсе

Description	Туре	Category	Design Eff	Min Eff	Design Loss	Max Loss	Comp liance
Water Heater 1	Storage Water Heater - Electric	<=120 [gal] & <= 12 [kW]	0.88	0.88			PASSES

**PASSES** 

	P	iping S	ystem C	omplian	ce		
Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]		Ins Thick [in]		Compliano
Heating System (Steam, Steam Condensate, & Hot Water)	0.75	True	105.00	0.28	0.70	0.63	PASSES

Project: 504223A Title: Edward L. Tabol Memorial Library

Type: Assembly Location: COLUMBIA COUNTY

### Other Required Compliance

Category	Section	Requirement (write N/A in box if not applicable)	Check
Infiltration	406.1	Infiltration Criteria have been met	П
System	407.1	HVAC Load sizing has been performed	一
Ventilation	409.1	Ventilation criteria have been met	一
ADS	410.1	Duct sizing and Design have been performed	一
T & B	410.1	Testing and Balancing will be performed	一
Electrical	413.1	Metering criteria have been met	一
Motors	414.1	Motor efficiency criteria have been met	□
Lighting	415.1	Lighting criteria have been met	$\Box$
O & M	102.1	Operation/maintenance manual will be provided to owner	一
Roof/Ceil	404.1	R-19 for Roof Deck with supply plenums beneath it	一
Report	101	Input Report Print-Out from EnergyGauge FlaCom attached?	

### ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs EnergyGauge FlaCom v1.22

### INPUT DATA REPORT

### **Project Information**

Project Name: 504223A

Orientation: SouthEast

Project Title: Edward L. Tabol Memorial Library

Building Type: Assembly

Address: US 90 W

Building Classification: New Finished building

State: Florida

Description

Main Floor area

No. of Storeys: 1

Zip: 0

GrossArea: 2755

Owner:

	Zones				
Type	Load Profile	Area [sf]	Multiplier	Total Area [sf]	
CONDITIONED	Uses Building Load	2754.7	1	2754.7	

9/7/2005

No Acronym

1 1St Floor

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Profile

			Sp	aces						
No	Acronym	Description	Туре	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]	
Zone				2.272.27	22.22		-		****	
1	PE Room	p. e. equip. room (both)	Offices (Partitions>4.5 ft below ceiling) Enclosed offices, all open plan offices without partitions	16.00	16.56	9.00	1	265.0	2384.6	
2	Stor	Storage area (both)	Storage & Warehouse - Material Handling	16.00	4.42	9.00	1	70.7	635.9	
3	Area a-b	Area A and B	Classroom/Lecture Hall	30.00	25.80	9.00	2	1548.0	13932.0	
4	Hall	Foyer	Lobby (General) - Reception and Waiting	46.00	8.30	9.00	1	381.8	3436.2	
5	Bath Room X	Bath rooms	Toilet and Washroom	7.50	10.30	9.00	2	154.5	1390.5	
6	Office	Zo1Sp8	Offices (Partitions>4.5 ft below ceiling) Enclosed offices, all open plan offices without partitions	15.66	16.00	9.00	1	250.5	2254.5	
7	Bath #2	Zo1Sp9	Toilet and Washroom	5.30	5.60	9.00	1	29.7	267.1	
8	Stor 2	Zo1Sp10	Storage & Warehouse - Material Handling	10.30	5.30	9.00	1	54.6	491.3	

	Lighting										
1	No	Туре	Power [W]	Control Type	No.of Ctrl pts	y S					
Zone: 1St	Floor PE R										
	1	Incandescent	80.00	Manual On/Off	1						
	2	Suspended Fluorescent	320.00	Manual Stepped-3 Level	1						
In Space:	Stor 1	Incandescent	80.00	Manual Stepped-3 Level	1						

	In Space:	Area	a-b										
		1	Suspended Fluorescent				1920.00	Manu	al Stepped-3	Level		2	
	In Space:	Hall 1	Suspended Fluorescent				960.00	Manu	al Stepped-3	Level		2	
	In Space:	Bath 1	Room X2 Incandescent				40.00	Excep	tion for One	fixture or bal	last	1	
	In Space:	Offic 1	e Incandescent				80.00	Manu	al On/Off			1	
		2	Suspended Fluorescent				320.00	Manu	al Stepped-3	Level		1	
	In Space:	Bath	#2 Incandescent				40.00	Excep	tion for One	fixture or bal	last	1	
	In Space:	Stor 1	2 Incandescent				40.00	Excep	tion for One	fixture or bal	last	1	
						Walls	5						
No	Descrip	tion	Туре	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	DirectionCo [B	onductance tu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Bt	77
In 2	Cone:	18	Floor										
1	Pr0Zo1W							2 2					
et la	. 102011	Val	4" Brick /2x4@16 oc+R13Batt/0.5"	60.00	9.00	1	540.0	SouthEast	0.0672	8.8274	104.39	14.89	
2	Pr0Zo1W		oc+R13Batt/0.5" Gyp 4" Brick /2x4@16 oc+R13Batt/0.5"		9.00	1	540.0 414.0	SouthEast NorthEast	0.0672 0.0672	8.8274 8.8274	104.39		-
2		Va2	oc+R13Batt/0.5" Gyp 4" Brick /2x4@16	5" 46.00	7,400							14.89	ב

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					Windo	WS							
	No	Description	Туре	Shaded	UCen [Btu/hr sf F]	SC	Vis.Tr	W [ft]	H (Effec) [ft]	Multi plier	i Total [sf		
In Zone: 15		Ď											
In Wall:	Front 1	Pr0Zo1Wa1Wi	DOUBLE CLEA	R No	0.6514	0.88	0.81	4.00	5.00	4	8	0.0	
In Wall:	Left 1	Pr0Zo1Wa4Wi	I DOUBLE CLEA	R No	0.6514	0.88	0.81	4.00	4.00	2	3	32.0	
In Wall:	Rear 1	Pr0Zo1Wa3Wi	10.00	R No	0.6514	0.88	0.81	4.00	5.00	4	8	0.0	
In Wall:	Right 1	Pr0Zo1Wa2Wi		R No	0.6514	0.88	0.81	4.00	4.00	2	3	32.0	Ε
					Door	s							
N	o De	scription	Type	Shaded?		H (Effec)	Multi	Area	Cond.	Dens.	Heat Cap.	R-Value	
					[ft]	[ft]	plier	[sf] [B	tu/hr. sf. F]	[lb/cf]	[Btu/sf. F]	[h.sf.F/Btu	1
Zone: 1St	Floor				[ft]	[ft]	plier	[sf] [B	tu/hr. sf. F]	[lb/cf]	[Btu/sf. F]	[h.sf.F/Btu	1
Zone: 1St In Wal	l: Fr		Polystyrene core	No	3.00	7.00	plier 1	[sf] [B	0.4982	(Ib/cf) 0.00	[Btu/sf. F]	2.01	1
	l: Fr 1 Pr I: Ri	0Zo1Wa1Dr1 ght 0Zo1Wa2Dr1	(18 ga steel) 1 Polystyrene core	No No			•					***************************************	ו ב
In Wa	l: Fr 1 Pr l: Ri 1 Pr	0Zo1Wa1Dr1 ght 0Zo1Wa2Dr1 ear 0Zo1Wa3Dr1	(18 ga steel) 1	UNITED .	3.00	7.00	1	21.0	0.4982	0.00	0.00	2.01	

					Roo	fs							
No	Descript	ion	Туре	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]		R-Value [h.sf.F/Btu]	
n Zone: 1	St Floor Pr0Zo1R	ก	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd	46.00	60.00	t	2760.0	0.00	0.0320	1.50	8.22	31.24	
					Skyligh	its							
	No	Descrip	otion Type	UC [Btu/h		ding Vi	s.Trans	W [ft]	H (Effec) ! [ft]	Multiplier	Area [Sf]	Total Area [Sf]	
In Zone: In Roo	f:												
	d:				Floo	rs							
In Zone: In Roo		ion	Туре	Width [ft]	19/13 (41/07)	rs ec) Mul plie			nd. Heat Cr r. sf. F] [Btu/sf.	ip. Dens. F] [lb/cf]		Value .F/Btu]	
In Roo			Type  1 ft. soil, concrete floor, carpet and rubber pad		H (Eff	ec) Mul plie		[Btu/h		F] [lb/cf]	[h.sf		

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Pr0Sy1	System 1		Constant Volu	me Packaged S	ystem	No. 0	Of Units 1	
Component	Category		Capacity	Efficiency	IPLV			
1	Cooling System (Air Coole Cooling Capacity)	d 65000 to 135000 Btu/h	102269.00	11.00	8.30	<		
2	Heating System (Air Coole Btu/h Clg Cap)	d HP 65000 to 135000	50317.00	3.00				
3	Air Handling System -Supp Constant Volume)	ly (Air Handler (Supply) -	3400.00	0.80				
4	Air Handling System - Retu Constant Volume)	rn (Air Handler (Return) -	3400.00	0.80				
5	Air Distribution System (A	DS System)		6.00				
			Plant					
Equipa	nent	Category	Size	Inst.No	Eff.		IPLV	
	-	Wat	er Heaters	W.				
W-Hea	ter Description	Capacit Cap.Unit	I/P Rt.	Efficienc		Loss		
1 Storage V	Vater Heater - Electric	40 Gal	[kW]	0.8800 [	EF]		[%/hr]	
		Ex	ct-Lighting					
Descr	iption	Categories.		Area/Len/No. [sf/ft/No		Wattage [W]		
1 Ext Lip			ithout Canopy)	12.00		400.00		
2 Ext Lip	ght 2		Canopy) Light tal, office, school etc	144.00		300.00		
3 Ext Lip	ght 3		terior Surfaces/facades	1200.00	)	400.00		

	Piping										
No	Туре	Operating Temperature [F]	Insulation Conductivity [ Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?					
1	Heating System (Steam, Steam Condensate, & Hot Wat	105.00	0.28	0.75	0.70	Yes					

Fenestration Used											
Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SC	VLT	Frame Conductance [Btu/h.sf.F]	Frame Absorptance				
ApLbWnd6	DOUBLE CLEAR IG	2	0.6514	0.8800	0.8120	0.4340	0.7000				

			Mat	erials Us	ed				
Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHea [Btu/lb.F]	t
18	Matl18	2 in. Wood	No	2.3857	0.1670	0.0700	37.00	0.3900	
264	Matl264	ALUMINUM, 1/16 IN	No	0.0002	0.0050	26.0000	480.00	0.1000	
214	Matl214	POLYSTYRENE, EXP., 1-1/4IN.	No	5,2100	0.1042	0.0200	1.80	0.2900	
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	
206	Matl206	CELLULOSE,FILL,5.5IN,R- 20	No	20.8318	0.4583	0.0220	3.00	0.3300	
151	Matl151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000	
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					
265	Matl265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000	

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48	Matl48	6 in. Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	
123	Matl123	CONC BLOCK MW,8IN,HOLLOW	No	1.7227	0.6667	0.3870	53.00	0.2000	
159	Matl159	CONC HW-UNDRD-140LB-4IN	No	0.3202	0.3333	1.0410	140.00	0.2000	
57	Matl57	3/4 in. Plaster or gypsum	No	0.1488	0.0625	0.4200	100.00	0.2000	
72	Matl72	AIR LAYER, 3/4IN OR LESS, VERT. WALLS	Yes	0.9000					
267	Matl267	0.75" stucco	No	0.1563	0.0625	0.4000	16.00	0.2000	
266	Matl266	2x4@16" oc + R13 Batt	Yes	13.0000					
215	Matl215	POLYSTYRENE, EXP., 2IN,	No	8.3350	0.1667	0.0200	1.80	0.2900	
105	Matl105	CONC BLK HW, 8IN, HOLLOW	No	1.1002	0.6667	0.6060	69.00	0.2000	
256	Matl256	WOOD, SOFT, 1-1/2IN	No	1.8939	0.1250	0.0660	32.00	0.3300	
268	Matl268	0.625" stucco	No	0.1302	0.0521	0.4000	16.00	0.2000	
42	Matl42	8 in. Lightweight concrete block	No	2.0212	0.6670	0.3300	38.00	0.2000	
269	Matl269	.75" ISO BTWN24" oc	No	2.2321	0.0625	0.0280	4.19	0.3000	
86	Matl86	BRICK, COMMON, 4IN	No	0.8012	0.3333	0.4160	120.00	0.2000	
211	Matl211	POLYSTYRENE,EXP.,1/2I N,	No	2.0850	0.0417	0.0200	1.80	0.2900	
12	Matl12	3 in. Insulation	No	10.0000	0.2500	0.0250	2.00	0.2000	
218	Matl218	POLYURETHANE,EXP.,1/2 IN,	No	3.2077	0.0417	0.0130	1.50	0.3800	
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	
4	Matl4	Steel siding	No	0.0002	0.0050	26.0000	480.00	0.1000	
271	Matl271	2x4@24" oc + R11 Batt	No	10.4179	0.2917	0.0280	7.11	0.2000	
272	Matl272	Panel with 7/16" panels	Yes	0.9044					
273	Matl273	Hollow core flush (1.375")	Yes	1.2777					
274	Matl274	Solid core flush (1.375")	Yes	1.7141					000000
275	Matl275	Panel with 7/16" panels (1.375")	Yes	1.0019					0.000
276	Matl276	Hollow core flush (1.75")	Yes	1.3239					
277	Matl277	Panel with 1-1/8" panels (1.75")	Yes	1.7141					
278	Matl278	Solid core flush (1.75")	Yes	1.6500					
279	Matl279	Solid core flush (2.25")	Yes	2.8537					
280	Matl280	Fiberglass/Mineral wool core	Yes	0.8167					

281	Matl281	Paper Honeycomb core	Yes	0.9357					
282	Matl282	Solid Urethane foam core	Yes	1.6500					
283	Matl283	Solid mineral fiberboard core	Yes	1.7816					
284	Matl284	Polystyrene core (18 ga steel) 1	Yes	2.0071					
285	Matl285	Polyurethane core (18 ga steel) 2	Yes	2.5983					
286	Mati286	Polyurethane core (24 ga steel) 1	Yes	2.5983					
287	Matl287	Polyurethane core (24 ga steel) 2	Yes	4.1500					
288	Matl288	Solid Urethane foam core	Yes	4.1500					
81	Matl81	ASPHALT-ROOFING, ROLL	Yes	0.1500					
244	Matl244	PLYWOOD, 1/2IN	No	0.6318	0.0417	0.0660	34.00	0.2900	
185	Matl185	CLAY TILE, PAVER, 3/8IN	No	0.0301	0.0313	1.0410	120.00	0.2000	
82	Matl82	ASPHALT-SHINGLE AND SIDING	Yes	0.4400					
11	Matl11	2 in. Insulation	No	6.6800	0.1670	0.0250	2.00	0.2000	
47	Matl47	2 in. Heavyweight concrete	No	0.1670	0.1670	1.0000	140.00	0.2000	
95	Matl95	CONC BLOCK HW-4IN-HOLLOW	No	0.7107	0.3333	0.4690	101.00	0.2000	
248	Matl248	ROOF GRAVEL OR SLAG1/2IN	No	0.0500	0.0417	0.8340	55.00	0.4000	
94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500	

### **Constructs Used**

9/7/2005

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No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1005	1 fl. soil, concrete floor, carpet and rubber pad		No	No	0.17	54.00	108.00	5.7300		
	Layer	Material No.	Material			ickness [ft]	Framing Factor			
	1	265	Soil, 1 ft		2.0	0000	0.00			
	2	48	6 in. Heavyweigh	ht concrete	0.:	5000	0.00			
	3	178	CARPET W/RU	BBER PAD			0.00			
No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1012	4" Brick /2x4@	16" oc+R13	Batt/0.5" Gyp	No	No	0.07	8.83	104.39	14.8863	
	Layer	Material No.	Material			ickness [ft]	Framing Factor			
	1	86	BRICK, COMM	ON, 4IN	0	3333	0.00			
	2	266	2x4@16" oc + R	13 Batt	0.3	2917	0.00			
	3	187	GYP OR PLAS	BOARD,1/2IN	0.0	0417	0.00			
	4	244	PLYWOOD, 1/2	IIN	0.0	0417	0.00			
No	Name			Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1033	Polystyrene core	(18 ga steel	) 1	No	Yes	0.50			2.0071	
	Layer	Material No.	Material		20.000	ickness [ft]	Framing Factor			
	1	284	Polystyrene core	(18 oa steel) 1			0.00			

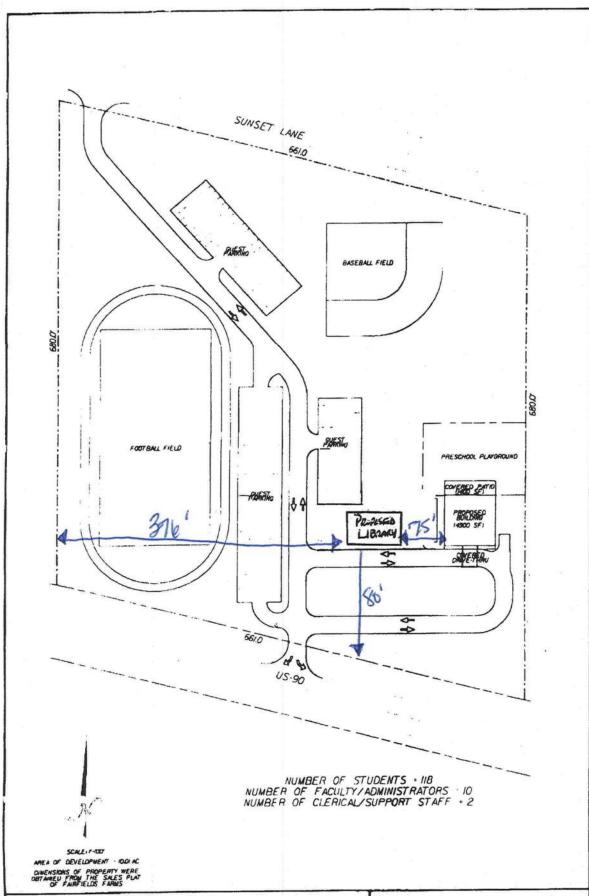
No	Name			Simple Construct	Massless Construct	Conductar [Btu/h.sf.		leat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1038	Shngl/1/2"WD Deck/WD Truss/9" Batt/Gyp Brd		No	No	No 0.03		1.50		31.2351		
	Layer	Material No.	Material		Th	ickness [ft]	Framin Factor				
	1	81	ASPHALT-ROOF	FING, ROLL			0.00				
	2	244	PLYWOOD, 1/2I	N	0.	.0417	0.00				
	3	12	3 in. Insulation		0	.2500	0.00				
	4	23	6 in. Insulation		0.	.5000	0.00				
	5	187	GYP OR PLAS B	OARD,1/2IN	0.	.0417	0.00				

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FORM N-1 Building/Room	Comme	rcial Load Calc Assembly	ulations	by Evan Beams	ley		
Name Address	Edward Lake Ci	L. T \abol Library ty, FL			Phone		
Contractor					Phone		
Address							
1. Cooling I	Design (	Condiltions			Correction		
Latitude		29					
Time		3:00pm	Daily Range	18	-1		
Inside db (F)		75	Inside %RH	60			
Outside db (F)		93	Outside %RH	77			
Outside db @3p	om	93	Time Correct.	0			
Grains (50%)	122 885 12	51	T.D. =	18	-2		
2. Solar Rad	diation F	leat Gain Throເ	igh Glass			Cooling Load	
		Exposure	Sq. Ft.	Solar Factor	Shading Factor	Sensible	Latent
Clear, 2pane		SE	80	67	0.88	4717	
Light, wt. bldg.		NE	32	39	0.88	1098	
		NW	80	47	0.88	3309	
		SW	32	109	0.88	3069	
3. Transmis	ssion Ga	ins					
Glass	ETD	Exposure	Sq. Ft.	U Factor	db dT or Equiv.		
Clear, 2pane		All	224	0.65	18	2621	
Walls	D	N	439	0.076	15	500	
Stucco, R13	D	E	361	0.076	23	631	
	D	S	439	0.076	36	1201	
	D	W	361	0.076	17	466	
Doors	use t.d.	. All	126	0.56	18	1270	
Steel							
Roof/Ceiling	R4	All	2760	0.04	80	8832	
Shingles, 7/16"OSB,							
4. Internal H	leat Gair	1					
a. Occupants			Number	Sensible	Latent		
			37	210	140	7770	5180
<ul><li>b. Lights &amp; Ot</li></ul>	hers			Watts			
		Fluorescent Lights		5440	3.4	18496	
		Incandescent Light		400	4.1	1640	
	Name		Sensible	Latent	Usage Factor		
Appliances	All		10000	2000	1		
5. Infiltratio	n		ft3/min	db dT	dGrains		
	Doors		220	18	51	4356	7630
Neutral, avg.	Bldg.		165	18	51	3267	5722
		Load from Spa	ce			51051	18532
7. Supply D			Gain Factor	Line 6 Sensible	Gain	0.00.	.000_
r. cappiy b	uot i icu	Cam	0.03	51051	Gain	1532	
8 Room 7	one or	Block Design L		31031	Lines 6+7	52582	18532
	19	Line 8 Sens.		Cooling of -		02002	10002
Supply dT			52582	Cooling cfm =	2516		
9. Ventilation	חכ	cfm/occupant	ft3/min	db dT	dGrains		****
Non Smoking		7	259	18	51	5128	8982
		From Lighting					
11. Return I	Duct Hea	at Gain	Line 6 Sensibl	e Gain	Gain Factor		
			51051		0.00	0	
12. Total Co	ooling L	oads on Equipn	nent (Btuh)		7.1	57711	27514

### 13. Heating Design Conditions 75

Inside db =	75	Outside db=	31	dT=	44	
14. Transm	ission Lo	osses				Heating Load
Glass	ETD	Exposure	ft2	U Factor	db dT	
Clear, 2pane		All	224	0.62	44	6111
Walls	D	N	439	0.076	44	1468
Stucco, R13	D	E	361	0.076	44	1207
	D	NW	439	0.076	44	1468
	D	sw	361	0.076	44	1207
Doors	use t.d.	All	126	0.56	44	3105
Steel						
Roof/Ceiling	R4	All	2760	0.04	44	4858
Shingles, 7/16"OSB,	R30					
15. Infiltration	on			ft3/min	db dT	
door		Doors		380	44	18392
Neutral, avg.		Bldg.		248	44	12003
16. Sub To	tal Heatin	ng Load for Sp	ace			37815
17. Supply	<b>Duct Hea</b>	at Loss		Loss Factor	Line 16 Sensible	
				0.05	37815	1891
18. Ventilat	tion			ft3/min	db dT	
				259	44	12536
19. Humidit	fication					2225
20. Return	<b>Duct Hea</b>	t Loss		Loss Factor	Line 16 Sensible	
				0.00	37815	0
21. Total He	eating Lo	ad on Equipm	nent (Btuh)		3.5	41931



Proposed Library 2268 Sq. ft.

SITE PLAN
THE BLAKE SCHOOL
LAKE CITY.FL

East Engineering Co. P.O. Box 3717 Lake City, FL 32056-3717 Ph. (904) 752-6986 Ph. (904) 752-4486

Comments **Applicants Name** Contractors Name Address Fee Simple Owner Name & Address Bonding Co. Name & Address\_ Architect/Engineer Name & Address Mortgage Lenders Name & Address Circle the correct power company - FL Power & Light Property ID Number 30 - 35 - 16 - 102398 - 202 **Estimated Cost of Construction** Subdivision Name Block Unit **Driving Directions** Type of Construction TYPE TL New Building Class Rooms Number of Existing Dwellings on Property Total Acreage 10.92 Lot Size or Have an Existing Dr Actual Distance of Structure from Property Lines - Front Total Building Height 26' 1/2 Heated Floor Area Number of Stories Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards c all laws regulating construction in this jurisdiction. OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT Owner Builder or Agent (Including Car Contractor Signature Commission Expires Mar 24, 2009 Contractors License Number RR-00676 Commission # DD 410803 STATE OF FLORIDA **Competency Card Number Bonded By National Notary Assn** COUNTY OF COLUMBIA NOTARY STAMP/SEAL Sworn to (or affirmed) and subscribed before me

**Notary Signature** 

Personally known

or Produced Identification



### LAKE CITY / COLUMBIA COUNTY

### FIRE DEPARTMENT

225 NW Main Blvd., Suite 101, Lake City, FL 32055 Phone: 386-752-3312 Fax: 386-758-5424

**Inspection Division** 

**Firesafety Inspectors** 

Carlton A. Tunsil Assistant Fire Chief

Frank E. Armijo Captain

Nathiel L. Williams, Sr. Driver/Engineer

Alphonso Wilson Fire Chief

Date May 17,2006

Mr. Grady S. Markham Columbia County Schools 528 W. Duval St. Lake City, FL 32055

Dear Mr. Markham

NOTICE OF DEFICIENCIES

Re: The Blake School

Inspection Date: May 17, 2006

To comply with Florida Statute 633.022 (1) (B) and Chapter 1013.12 (1) (c), an annual fire safety inspection at The Blake School was conducted to determine if your facilities are in compliance with the State Fire Safety Standards. In attendance to this inspection were Assistant Fire Chief Carlton Tunsil, Fire Safety Inspector and Inspector Nathiel L. Williams Fire Safety Inspector, Lake City Fire Department, respectively.

The deficiencies listed on the attached report are required to be corrected. Please provide this office with your corrective action plan, and an estimated date by which the corrections will be completed. Once the corrections have been made a follow-up inspection for your facility will be scheduled.

If you disagree with any of the discrepancies contained in my report, please keep in mind that you have the right to appeal my findings. Any appeals should be directed to Scott Langston, Northeast Regional Supervisor at the following address:

> 200 East Gaines Street Tallahassee Fla. 32399-0342 Phone: 850-413-3171 Fax: 850-414-6119

Thank you for sharing our fire safety concerns. If you should have further questions concerning this matter, feel free to call me at the office.

Respectfully yours,

Carlton A. Tunsil, Assistant Fire Chief State Fire Inspector License # 48544 Nathiel L. Williams, Inspector

State Fire Inspector License #113360

cc: Mrs. Gayle A. Delgado, Principal The Blake School

Ms. Jennifer, Flynn, Chairman of Board of County Commissioners

Mr. Fred Gaylord, Columbia County School Board Maintenance Supervisor



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### COLUMBIA COUNTY, FLORIDA

rtment of Building and Zoning

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

Use Classification CLASSROOMS/LIBRARY Parcel Number 30-3S-16-02398-202 Building permit No. 000023690

Fire: 93.95

Total: Waste: 93.95

Location: 7443 US 90 WEST, LAKE CITY, FL

Owner of Building LINNIE JORDAN

Permit Holder BLAKE CONSTRUCTION

Date: 05/24/2006

**Building Inspector** 

**POST IN A CONSPICUOUS PLACE** (Business Places Only)

Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

Date: 5-31-05

7443 US 90 West Bioss.

LAKE C'A

(Address of Treatment or Lot/Block of Treatment)

# Florida Pest Control & Chemical Co.

www.flapest.com

Chemical to be used: 23% Disodium Octaborate Tetrahydrate Product to be used: Bora-Care Termiticide (Wood Treatment)

directions as stated in the Florida Building Code Section 1861.1.8 Application will be performed onto structural wood at dried-in stage of construction. Bora-Care Termiticide application shall be applied according to EPA registered label-

foundation installation.) (Information to be provided to local building code offices prior to concrete