DATE 10/18/2010 Columbia County B This Permit Must Be Prominently Posted	uilding Permit	PERMIT 000028942
APPLICANT PAUL WISER	PHONE 229-561-5766	000028942
ADDRESS PO BOX 90		FL 32053
OWNER KENNETH METZLER	PHONE 954-907-8154	<u></u>
ADDRESS 8683 N US 441	LAKE CITY F	FL 32055
CONTRACTOR PAUL WISER	PHONE 229-561-5766	
LOCATION OF PROPERTY 441 NORTH OF I-10, AFTER LA	SSIE BLACK ABOUT 1/4 MILE, SEE	
PRIVATE DRIVE ON RIGHT, FO	DLLOW TO REAR	
TYPE DEVELOPMENT SFD, UTILITY ES	TIMATED COST OF CONSTRUCTION	170000.00
HEATED FLOOR AREA 2272.00 TOTAL ARE	A 3400.00 HEIGHT 20.00	0 STORIES 1
FOUNDATION CONCRETE WALLS FRAMED F	OOF PITCH 8/12 FLOO	OR SLAB
LAND USE & ZONING AG-3	MAX. HEIGHT 35	
Minimum Set Back Requirments: STREET-FRONT 30.00	REAR 25.00 SI	IDE
NO. EX.D.U. 0 FLOOD ZONE X	DEVELOPMENT PERMIT NO.	
PARCEL ID 17-2S-17-04722-019 SUBDIVISIO	NT	
	Y8	
LOT BLOCK PHASE UNIT _	TOTAL ACRES 14.80	
CBC059276	x taul Wisn	
Culvert Permit No. Culvert Waiver Contractor's License Nur		
EXISTING DOT 10-106-N BK Driveway Connection Septic Tank Number LU & Zonin	g checked by Approved for Issuance	Y New Resident
	Servence of the terminal	
COMMENTS: NOC ON FILE		
COMMENTS: NOC ON FILE FINAL DOT APPROVAL ATTACHED		58*
	Check # or Cash	n 11924
FINAL DOT APPROVAL ATTACHED		1 11924 (footer/Slab)
FINAL DOT APPROVAL ATTACHED FOR BUILDING & ZONIN	IG DEPARTMENT ONLY	
FINAL DOT APPROVAL ATTACHED FOR BUILDING & ZONIN Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab	Monolithic date/app. by Sheathing/Nai	(footer/Slab) date/app. by
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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.

INSPECTORS OFFICE

"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."

CLERKS OFFICE

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

This instrument was prepared by:

Warranty Deed (STATUTORY FORM-SECTION 689.02 F.S.)

TERRY McDAVID 200 North Marion Street LAKE CITY, FLORIDA 32055

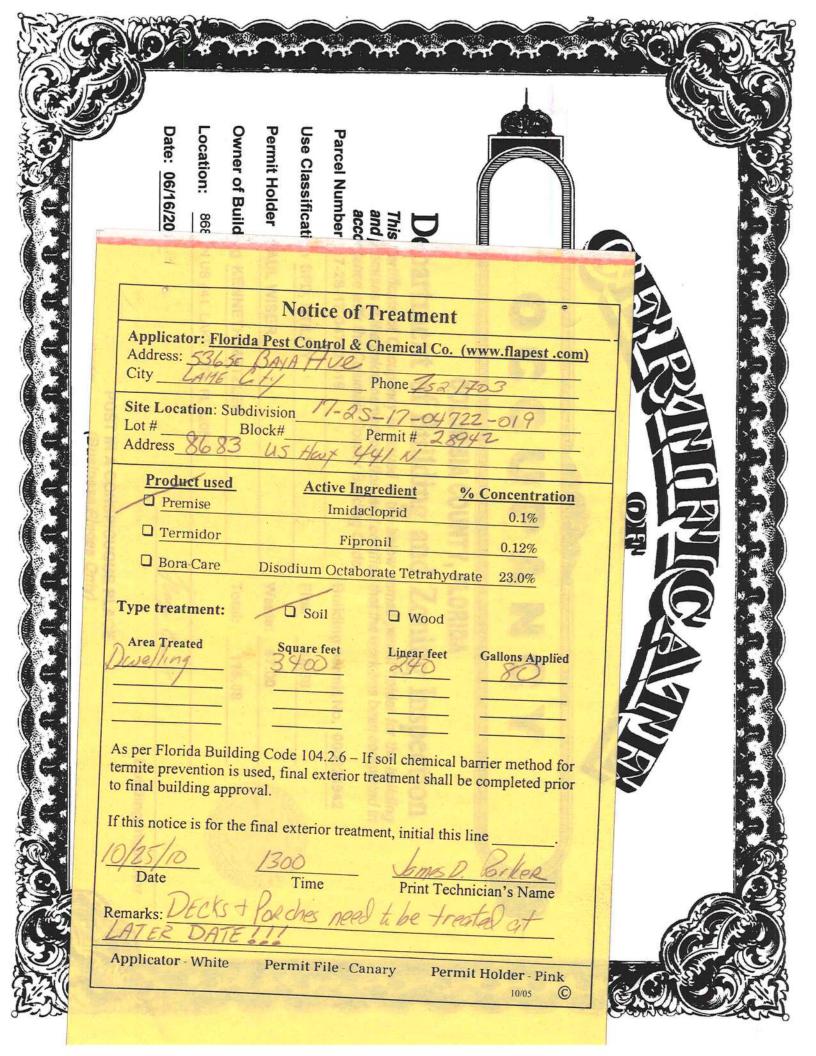
This Indenture, M	ade this 31st	day of	October	1983 , Between
FRANK N. THOMAS	and his wife, EL	IZABETH H.	THOMAS	黑
of the County of	Columbia	, State of	Florida	OFFICIAL P6
KENNETH METZLEF	and his wife, INC	GRID METZLE	R	773
whose post office address is	1101 NW 14th Str	eet, Fort Lau	iderdale, Florida	33311 F. P. P.
of the County of		, State of	Florida	RECORDS 2
Witnesseth. That said	grantor, for and in consid	deration of the su	m of	32 ROS
and other good and valua	ble considerations to said , bargained and sold to t	arantor in hand	paid by said grantee, and grantee's heirs and	the receipt whereof is hereby d assigns forever, the following Florida, to-wit:
That part of Section "A" attached hereto	n 17, Township 2 s	South, Range	e 17 East, as desc	cribed in Schedule
N.B.: No tobacco	allotment is includ	ed in this co	nveyance.	
but not limited to, from this land. Th	the terms and cond the rights of Kerr- ne Grantors, by thi and to become due	ditions of mir -McGee Corpo is deed, assi from Kerr-M	ning lease recorded pration to mine are gn to the Grantee cGee Corporation	ed of record, including nd remove phosphate e all lease Payments under said ease, from
	by fully warrant the title t	o said land, and	will defend the same a	gainst the lawful claims of all
persons whomsoever. * "G	rantor" and "grantee" are	used for singula	r or plural, as context re	equires.
In Witness Wherent, Signed, sealed and delivered Connic S. Mytlo Company	[Frank	N. Thomas	(Seal)
STATE OF FLORIDA COUNTY OF COLUMBI. I HEREBY CERTIFY that on th		er duly qualified	. * / _{1. 1} .	18 18 NT VE
FRANK N. THOMAS				s, personally appeared
to me known to be the personal they executed the same. WITNESS my hand and official to 83 My commission expires:	ial seal in the County and			of October Notary Public
1	DOCUMENTARY STAME			
	INTANGIBLE TAX MARY B. CHILDS, CLE			

COURTS, COLUMBIA COUNTY
BY FOURTH

Category/Subcategory (cont.) Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings	, Ac		
15. Roof Tile Adhesive	1 1 1		Tagaddalin yayaya i
16. Sray Applied Polyurethane Roof	ak i min de goni	Andrew ordered and a second se	viji rijek seriji i r
17. Other	1 to 1 to	- V - SA - V - A - V - A - A - A - A - A - A -	
E. SHUTTERS	NIA	The Same of the Control of the Contr	802 3
1. Accordion			1 2 2 2 20 1
2. Bahama	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
3. Storm Panels	-		To the Control of the
4. Colonial			1000
5. Roll-up			
6. Equipment			
7. Others			10 X 10 X 10 X
F. SKYLIGHTS	NIA		
1. Skylight	7-11	A second	
2. Other		10	THE RESERVE
G. STRUCTURAL			V V man d
COMPONENTS			
Wood connector/anchor	Simpson	Hurr. Ties	FL2304
Truss plates	Dimpson	Tar. Hes	PC. 0307
Engineered lumber			
Railing			
5. Coolers-freezers			
Concrete Admixtures	 		
7. Material			
8. Insulation Forms	 		
9. Plastics			
10. Deck-Roof	 		731.4
11. Wall			
12. Sheds			
13. Other			
	1 1		1164
H. NEW EXTERIOR	N-A		NIA
1. ENVELOPE PRODUCTS			
2.	1		-
time of inspection of these pobsite; 1) copy of the production certified to comply with,	oroducts, the folloct approval, 2) the 3) copy of the a	te product approval at plan review. I un owing information must be available to the performance characteristics which the pplicable manufacturers installation reconstructed if approval cannot be demonstructed.	the inspector on the product was tested puirements.
		, in the second second	e el jui
F. 3 1			MATERIAL PROPERTY OF THE PROPE
taul Illism		Paul Wiser	9-28-10
Contractor or Contractor's Authorized	Agent Signature	Print Name	Date
			By Min William C
ocation		Permit # (FOR STAFF II)	SE ONI V

02/02/04 - 2 of 2

Website: www.tlcpermits.org



Ck 11924

Columbia County Building Permit Application

For Office Use Only August 4 1010 - 041 - 1 - 10/5/10 - 14 - 7 G D U 7
For Office Use Only Application # 1010 - 04 Date Received 10/5/10 By Ltt Permit # 28942
Zoning Official BLK Date 13.10.11 Flood Zone X Land Use A-3 Zoning A-3
FEMA Map # N/A Elevation N/A MFE / River N/A Plans Examiner 7.C. Date 10-13-18
NOC EH Deed or PA Site Plan State Road Info Parent Parcel #
Dev Permit # In Floodway #Letter of Auth. from Contractor
School_ = TOTAL N/A Suspended IN VF Force
Septic Permit No. 10 - 106 - N Fax 386-938-1388
Name Authorized Person Signing Permit Paul Wisa Phone 229-544-5764
Address Po Box 90 Jennings, Fl. 32053
Owners Name Kenneth Mctzler Phone 954-907-8154
911 Address 8683 NUS 441 Lake City, FT. 32055
Contractors Name Quality Buildows of North Fl. Inc. Phone 229-541-5746
Address Po Box 90 Jennings, Fl. 32053
Fee Simple Owner Name & Address Kenneth Metzler 6305 Nw 23 st Magate #1.33063
Bonding Co. Name & Address N/4
Architect/Engineer Name & Address John K. Gentry - Perry, Fl.
Mortgage Lenders Name & Address
Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec. – Progress Energy
Property ID Number 17251704722-019 Estimated Cost of Construction 200,000
Subdivision Name Lot Block Unit Phase
Driving Directions Take Huy 441 North from Lake City, travel 4 miles north
of I-10 " Driveway on right @ Quality Buildows sign - house sets
toward back of property Mulder of Existing Dwellings on Property Number of Existing Dwellings on Property
Construction of 5FD Total Acreage 14, 8 Lot Size
Do you need a - <u>Culvert Permit</u> or <u>Culvert Walver</u> or <u>Have an Existing Drive</u> Total Building Height
Actual Distance of Structure from Property Lines - Front 200 Side 400 Side 180 Rear 400
Number of Stories Heated Floor Area 2272 Total Floor Area 3400 Roof Pitch 8/12
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 of all laws regulating construction in this jurisdiction. Spoke to Metaler / Wiser Phone # disconnected to be fault and call left a message on faults phone

Columbia County Building Permit Application

<u>TIME LIMITATIONS OF APPLICATION:</u> An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

<u>TIME LIMITATIONS OF PERMITS:</u> Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full.

This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other

services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

<u>WARNING TO OWNER:</u> YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. It may be to your advantage to check and see if your property is encumbered by any restrictions.

Owners Signature

**OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Contractor's License Number CBC-059374

Columbia County

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 5 day of 0 tiber 2010.

Personally known or Produced Identification FLDL

SEAL:

State of Florida Notary Signature (For the Contractor)



Competency Card Number

(Owners Must Sign All Applications Before Permit Issuance.)

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _	1010-04	CONTRACTOR Quality Bulders of N. F. PHONE 229-56+57	766
	programme and programme and the second		

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

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

Any changes, t start of that su	the permitte ibcontracto	ed contractor is res or beginning any wo	ponsible for the corre ork. Violations will re	sult in stop v	work orders and/or fines.
FLECTRICAL 8/	Print Name	CHARLTON ER 00/31	1 N. LAW SR 32	_ Signature_(
MECHANICAL/	Print Name	Arthur Rulk CAC 181395	100 Tr		PASS 9-8232 hone #: 229 - 559 - 8232
PLUMBING/ GAS 82	Print Name License #:	CHARLTON RFOOGG	1 N. LAW 3R.	Signature	Phone #: 938-1205/
ROOFING	Print Name License #:	: Paul Wis- CBC-059270	1000	Signature	Phone #: 229-561-5764
SHEET METAL	Print Name License #:	9		Signature	Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name License#:			Signature	Phone #:
SOLAR	Print Name License #:			Signature	Phone #:
Specialty L	icense	License Number	Sub-Contractors F	rinted Name	Sub-Contractors Signature
MASON					
CONCRETE FI	VISHER				
FRAMING		Cbc-059274	Paul U	1150	Paul Wari
INSULATION			Next po	ige	
STUCCO		NIA			
DRYWALL			Next pag	7	
PLASTER		NIA			
CABINET INST	ALLER	Cbc-059274	Quatity Pan	1 Wiser	taulelon
PAINTING		11	,	/	11

ACOUSTICAL CEILING NIA NIA **GLASS CERAMIC TILE FLOOR COVERING** ALUM/VINYL SIDING NIA GARAGE DOOR NIA METAL BLDG ERECTOR

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each Contractor Forms: Subcontractor form: 6/09 time the employer applies for a building permit.

SUBCONTRACTOR VERIFICATION FORM

		32.		•	1 1 -1 - 1
PPLICATION NUM	BER		CONTRACTOR Qu	o the issuance of a p	FN. FT. PHONE 229-541-574
		THIS FORM MUST B	E SUBMITTED PHICK IT	O the bookies of the	the provinced that we have
ecords of the s Ordinance 89-6	ubcontracto , a contracto	or shall require all s	ubcontractors to pi	rovide evidence of v impetency license in	it is <u>REQUIRED</u> that we have mit. Per Florida Statute 440 and workers' compensation or columbia County.
	he permitted heantractor	d contractor is resp beginning any wo	ansible for the corr rk. Violations will r	esult in stop work a	ubmitted to this office prior to the orders and/or fines.
ELECTRICAL	Print Name	CHARLTON EROCISI	U.) AU 31	Signature CM Phone	entrue de la
MECHANICAL/ A/C	Print Name_			Signature Phone	1 1 1 1 1 1 1 1 1
PLUMBING/	Print Name	RENCIGE	N. LAW SK	Phone	#: 938-1205
ROOFING	Print Name			SignaturePhone	#:
SHEET METAL	Print Name License #:			SignaturePhone	#:
FIRE SYSTEM/ SPRINKLER	Print Name License#:			SignaturePhone	#:
SOLAR	Print Name License #:			Signature Phone	
Specialty I	icease	Li ense Manber	Sub-Contractor	s Plinted Name	Sub-Contractors Signature
MASON					A STATE OF THE STA
CONCRETE FI	NISHER				
FRAMING					Robb O Jerchen
INSULATION		000628	Bobby D	Tackson	Boby O Jerus
STUCCO		NLT		- /	Rolly O Jochson
DRYWALL		606 627	Bobby D	Jack 562	13 day () frequent
PLASTER		NII			
CABINET INST	TALLER				
PAINTING					
ACOUSTICAL	CEILING	NA			
GLASS		NIA			
CERAMIC TIL	The state of the s				
FLOOR COVE					
ALUM/VINYL		NA			
GARAGE DO		N/A.			
METAL BLDG	ERECTOR	NIF			employer shall, as a condition to
	-			A	

applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees untier this chapter as provided in ss. 440.10 and 440.38, and shall be presented each

is . t__ _ building namit

Contractor Forms: Subporteractor topm: 6/09

NOTICE OF COMMENCEMENT

lost:201012016058 Date:10/5/2010 Time:12:27 PM

DC,P. DeWitt Cason, Columbia County Page 1 of 1 B:1202 P:1363

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number	128-25-16-01771-129	
----------------------------------	---------------------	--

THE UNDERSIGNED hereby gir	or notice that improvements u	ill he made to co	dain real property, and	in accordance with Se	ection 713 13 of the
Florida Statutes, the following inf	formation is provided in this NO	OTICE OF COM	IMENCEMENT.		
a) Street (job) Address:	description): L:T 29	13 Loca	A COUNT	RY LANE	ESTATES
a) Street (JOD) Address:		FIDDLE	S LANE	<i>rake city</i>	FC 3 203
. General description of improve	ments: WORKS	Hop/co	ARAGE		ch unflowed to the control of the co
3. Owner Information	O D CHAMANA	. 1 77000		Dut '- 5	21000
a) Name and address: _	C.D. SHANAHA	N 5010 :	>2193 RO 11	- +NGUS F	<u> </u>
	f fee simple titleholder (if other				
	OWNER				
4. Contractor Information					
a) Name and address:	352-228-79				<u>*</u>
	352-228-19	18	Fax No. (Opt.)		
5. Surety Information					
a) Name and address:	NA				
b) Amount of Bond:					
c) Telephone No.:			Fax No. (Opt.)		
a) Name and address:b) Phone No.	NA				
7 Identity of namon within the St	tate of Florida designated by as	man unan uham	notices or other docume	ante men he comed.	
A) Name and address:	Can Side MANAN	VIII II II WIIOII	C 9 19 7 a C	Di Tallah C	F1 34449
7. Identity of person within the St a) Name and address: b) Telephone No.:	3(-2 > 22 = 742)	50 (0	For No (Oot)	IC TWG-CO	1 = 3 [[[]
n) Telephone No.:	23 2 228 - 1910		rax No. (Opt.)		
8. In addition to himself, owner d	esignates the following person	to receive a copy	of the Lienor's Notice	as provided in Section	713.13(1)(b).
Florida Statutes:	AIA				
a) Name and address:	_ J. 4				
b) Telephone No.:	J14		Fax No. (Opt.) _		
9 Expiration date of Notice of Co is specified):	ommencement (the expiration				nt date
WARNING TO OWNER: ANY	PAVMENTS MADE BY TI	IE OWNER AF	TER THE EXPIRATI	ON OF THE NOTE	CE OF
COMMENCEMENT ARE CO					
STATUTES, AND CAN RESU					
COMMENCEMENT MUST B	하는 사람들이 되었다면 하는 것은 사람들은 사람들이 되었다면 하는 사람들이 가지 않는 것이 없는 것이 없는데 없는데 없는데 없는데 없는데 없는데 없는데 없다면		지역 회사 교통 전하다 경기를 가장하다 하는 사람들이 되었다. 경기를 하다 그 것은		16-11-16-17-17-17-17-17-17-17-17-17-17-17-17-17-
TO OBTAIN FINANCING, CO					
TO SELECT TO LEE TO THE TOTAL TO THE SELECTION OF THE SE		RANATIORN	EI BEFORE COMM	ENCTIO MORK O	RECORDING
YOUR NOTICE OF COMME	NCEMENI.		1-		
STATE OF FLORIDA					
COUNTY OF COLUMBIA		10.	11/10		
		Signature o	f Owner or Owner's Auti	horized Office/Director	/Partner/Manager
			=HANAH A		
				170	
		Print Name		· ·	
The foregoing instrument was ackn	owledged before me, a Florida N	lotary, this <u>5</u>	day of OCto	ober 2	0_10_by:
^	as			e of authority e.g. of	licer, trustee, attorney
1					•
fact) for		5		behalf of whom instr	rument was executed).
Personally Known OR Produ	aced Identification X Type 1	livers Lic	ense	The state of the s	· inaurumanu
0					LISA HUCHINGSON Y COMMISSION # EE 003532
Notary Signature 1004	10hinm	Notes (Stamp or Seal:	M10": Mark 7"0	XPIRES: October 23, 2014
votary Signature () WOOCOT	almy -	Notary 3	stamp or Seat:		ed Thru Notary Public Underwriters
3	u	AND-		Land of the land o	
II. Verification pursuant to Sec	tion 92 525 Florida Statutas		of perium. I dealess th	at I have fund the fac	recoing and that the
			or perjury, I decide on	Z I make read the for	Choung and mar me
racts stated in it are true to t	the best of my knowledge and	Deller.	12/1	*	***************************************
			10//		
		rignature	of Natural Person Sign	ing (in line #10 above	i.)

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6	4	
E .		N A
1.3		TESS.

STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

Southwest
Northwest
Q+ Johns River

☐ St. Johns River☐ South Florids☐ Suwannee River

THIS FORM MUST BE FILLED OUT COMPLETELY.

The water well contractor is responsible for completing this form and forwarding this permit to the appropriate delegated county where applicable.

Permit No Florida Unique I.D.	97195
	Required (See attached)
62-524 well	
62-524 well SUPY Application N	ło

		OGO WE TO	CHECK BOX FOR APPROPRIATE DISTRICT. ADDRESS ON BACK OF PERMY FORM.
F	1.	KENNE	The METELER 6305 NIN 235T. MARGATE FL. 33063 Rithy if Corporation City Telephone Number
	2.	Owner, Legal Name of E	, 5 MP. NOF IND R/S
Teet3	3	DANAID	5. Road Name or Number, City 1. 1-19 11 1503 452-1854 04722-007 Telephone No. NW NE
CODE TATA		904 NW	AMAIN BLUD 4. NE 1/4 of Section 17
ATO HI CAN		LAUNZ C	State State 5, Township 25 Range 126
is visible th	6.	COLOMB	
	7.	Number of proposed	wells Check the use of well: (See back of permit for additional choices) Domestic Monitor (type)
		(See Best)	(type) Public Water Supply (type) List Other Som Book List Other
	8.	Application for:	New Construction Repair/Modify Abandonment (Resson for Abandonment) RECEIVED
	9.	Estimated: Well Dept Casing Ma	n 160' Casing Depth 130' Screen Interval from AR to DEC 19 2007
	10.	If applicable: Propose Grouting Interv	
		Blk-Steel / Galvanized	/ PVC Other (specify:
	12.	. Method of Construct	Ion: Rotary Cable Tool Combination }
	13	. Indicate total No. of v	wells on site
	14	under a Consumptiv	e/Water Use Permit (CUP/WUP) or CUP/WUP Application?NoYes ollowing) CUP/WUP No
		District well I.D. No	Kendenty & Church Rd
		Latitude	PS or map or survey (map datum NAD 27 NAD 83) South
	11	5. I hereby certify that I will con and that a water use permit prior to commencement of w application is accurate and st	poly with the applicable rules of Title 40, Florida Administrative Code, representative power of the property. That the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon this well, or, I certify that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon this well, or, I certify that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon this well, or, I certify that I am the owner of the property. That the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon this well, or, I certify that I am the owner of the property. That the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon this well or a certify that I am the owner of the property. That the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon this well or a certify that I am the owner of the property. That the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon this well am the owner of the property. That the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon this well or certify that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon this well am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon this well am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or property abandon the property abandon the interest and the carries of the certification of the property abandon to proper
		Usu u	License No. Owner's or Agent's Signature Dista
		Signature of Contractor	DO NOT WRITE BELOW THIS LINE FOR OFFICIAL USE ONLY TOWN DRIVE 12/19/07 Hydrologist Approval
	-	Approval Granted By	For Received: \$ 40 Receipt No.: 2683456 Check No.:
		Owner Number:	AND ARREST OF SELECTION OF REPRESENTATIVE OF THE WMD. IT SHALL BE AVAILABLE AT THE
		THIS PERMIT NOT WELL SITE DURIN	VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER O

SRWMD FORM 408-3-1 REV. 12/86

3867557022

12/18/2007 21:48

an		(i loado completo il	r black lilk of type./	OWNER'S NAME	Ner /V	(E) ZEI
	95 GUP/#			COMPLETION DA	ATE 1-9	Florida Unique I.D.
If permit is for multipl	le wells indicate the numb	er of wells drilled	I	WELL USE: DEP	Public Irri	igation Domestic V Monitor
Indicate remaining w	ells to be cancelled			HRS	Limited 62	-524 Other
WATER WELL COM	TRACTOR'S	1.00	10 2	DRILL METHOD	M Rotary I	Cable Tool [V Combination
SIGNATURE	Wall Ut	cicense				Auger Other
I certify	that the information provided	In this report is acc	curate and true.	Patricia de la constanta de la		
Grout	No. of Bags	From (Ft.)	To (Ft.)			Measured Pumping Water Level uring Pt. (Describe):
Neat Cement:		1		Which isFt.		
	7,1	-				[] PVC Other
Bentonite:	County Columbia			[Y Open Hole	Depth	DRILL CUTTINGS LOG Examine
NE MANSEN	4 of Section/	Um. 05 Be	IN E	[] Screen Casing Diameter	(Ft.)	cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones.
Latitude N. 300 /	8:78 Langita	Ide 82037	103	& Depth (Ft.)	From To	Color Grain Size Type of Material
DATE S				Diameter 411	0' 40'	Brun Med Sand
	Skelci	of well location on	property A	FromQ	40'. 120'	Carl Clark
		- 12		To 160	120 190	Whr Shell-Line
	We	0000				
	- 11		C. 2N	Diameter		
1/2			xacn	From		
Official Us	se Only	357		То		
CHEMICAL ANALYSIS			1	1		
Iron: ppm S				Liner [] or		
Chloride: ppn			1	Casing [] Diameter		
[] Lab Test []	Field Test Kit			From		
Pump Type	or othe	istances from septic to r reference points		То		
[] Centrifugal [Jet V Submersibl	le [] Turbine			-	
Horsepower 1	Jet [V] Submersib	G.P.M.	16			
Pump Depth 14°	Ft. Intake Depth	147 Ft.		Driller's Name:		1.
			40D 2 2 Day 40 DF	(print or type) A/	nam	1 roon tr
			•			in the second se

Hall's Pump & Well Service, Inc

904 NW Main Blvd Lake City, FL 32055

386-752-1854

Invoice

Date	
2/4/2008	

Invoice #	
9432	

	19 1
Bill To	-
Kenneth Metzler	
6305 NW 23rd Street	
Margate, FL. 33063	

Description	Amount
4" Well with a 1HP Submersible Pump and a 81 gallon	2,750.00
diaphragm type tank to 100 ft	17 SF E2 (##0.25 E2 (940.177 E4 (25 E2
Well Permit	40.00
	900.00
yo onta root or arming	200.00
· ·	
	4" Well with a 1HP Submersible Pump and a 81 gallon diaphragm type tank to 100 ft Well Permit 90 extra feet of drilling

Full Payment Due Upon Receipt of Invoice -FINANCE CHARGES APPLY FROM DATE OF DEBT.

Total

\$3,690.00

Inst: 201012015056 Date: 9/20/2010 Time:8-41 AM DC,P.DeWitt Cason, Columbia County Page 1 of 1 B:1201 P:1520

war yee
NOTICE OF COMMENCMENT Co humbia Lake City
State of: FLORIDA County of: Manager City of: M. City
The undersigned hereby gives notice that improvement(s) 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:
Street Address: 8683 Havy 4411 North Lake City, Fl. 32055
Section: 17 Township: 2.5 Range: 17
Lot: Block:
Tax Parcel #: 17251704722-019 Subdivision:
GENERAL DESCRIPTION OF IMPROVEMENT
To Construct: Single Family Develling
OWNER INFORMATION
Owner(s) Name: Kenneth Metzler
Address: 6305 NW 23rd st
M - 1 = 33062 m
City: Margata State: 7 Zip: 53063 Phone: CONTRACTOR INFORMATION
Contractor Name: Paul Wiscr
Business Name Quality Builders of North Florida Inc.
Address: Po Box 90
City: Jepung 5 State: Fl. Zip: 33053 Phone: 386-938-1388
LENDER INFORMATION
Lender Name: V/A Contact:
Address:
City: State: Zip: Phone:
Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by
Section 713.13(1)(a)7-, Florida Statutes: Names:Address:
In addition to himself, Owner designates, of
to receive a copy of the Lienor's Notice as provided in Section 713.13 (1)(b), Florida Statutes.
Expiration is one (1) year from that of recording unless otherwise specified.
Signature of Owner Print Name: Mc Service S. Sworn to and subscribed before me this 19 day of 100 2010
Sworn to and subscribed before me this 19 day of Aug 2010
Notary Public: Stophonie Verdura My Commission Expires: Seft 34, 2010
STEPHANE VERDURA



< 967 >

Driveway Easement 5/0/t Proposed House 100 Basa 32 150

Hwy 441

621

14. 79 Acres

FAX MEMORANDUM

MEMORANDUM

FLORIDA DEPARTMENT OF TRANSPORTATION

To: Mr. Randy Jones, Dept. Director Columbia Co. Building & Zoning Dept.

Fax No: 386-758-2160

From: Dale L. Cray, FDOT Permits Insp. Date: 9-23-2010 Fax No. 386-961-7183 Attention: Col Co. Building Zoning Dept.

() Sign and return. () For your files. () Please call me. (XX) FYI () For Review

REF: Existing Driveway PROJECT: Kenneth Metzler

PARCEL ID No: Permit No : N/A Sec No : 29070

MILE POST: N/A

Mr. Jones

Please accept this as our legal notice of final passing inspection for (Kenneth Metzler) for an existing residential driveway. The project 911 address is, 8683 Hwy 441 Lake City, FI 32055.

The existing residential Access has been inspected and (Approved) and, meets FDOT Standard Requirements for a commercial driveway.

If further information is required on this project please do not hesitate to contact this office for additional access permitting information details. My office number is 961-7193 or 961-7146.

Sincerely,

Dale L. Cray

Access Permits Inspector



STATE OF FLORIDA DEPARTMENT OF HEALTS ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

PERMIT #: 12-SC-1123394 APPLICATION #: AP954556 DATE PAID: 3-11-10 RECEIPT 4: 17.40740 DOCUMENT #: PR801570

COMSTRUCTION PERMIT F	OR: OSTDS New	,			
APPLICANT: KENNETH			-		
PROPERTY ADDRESS:		e City, FL 32055			
107:	BLOCK:	sumplivision:			
PROPERTY 10 #: 0472	2-019		(SECTION, TOWNS OR TAX ID NUMB	HIP, RANGE, PARCI	er nomer)
SYSTEM MUST BE (381.0065, F.S., AND SATISFACTORY PERFORM WHICH SERVED AS A PERMIT APPLICATION. ISSUANCE OF THIS (STATE, OR LOCAL PERMIT	CHAPTER 642-6 ANCE FOR ANY BASIS FOR ISS SUCH MODIFICA PERMIT DOES NO	F.A.C. DEPAS SPECIFIC PERIOD UANCE OF THIS TIONS MAY PESUL!	THENT APPROVAL OF TIME. AN PERMIT, RÉQUIRE IN THIS PERMI	OF SYSTEM DOSS Y CHANGE IN THE APPLICANT T BEING MADE	NOT GUARANTEE MATERIAL FACTS, TO MODIFY THE NULL AND VOID
A [] GALLONS N [] GALLONS N [] GALLONS D [375] SQUARE F	GREASE INTERCEPTO DOSING TANK CAPAC EET N/	SYSTEM [] FILLED [X]	CAPACITY UM CAPACITY SINCL LIONS 0 1DC	SES PER 24 HRS	#Pumps []
N F LOCATION OF BENCHMAN I ELEVATION OF PROPOSE E BOTTOM OF DRAINGTELL	nallin 8" oak n	orth of system sited			
D FILL REQUIRED:	30.001 INCHES	EXCAVATION RE	DOUBLE COOL 1	NADEO	
The licensed contractor s. 64E-6.013(3)(f), FAC.	nstalling the system is			y of tank in accordance	
~-	aul Lloyd*		TITLE: Use this o	so Soil Scien	hir+
APPROVED BY:	Ohi Arre	===================================	director		Columbia CHD
DATE ISSUED: 0	3/08/2010		EX	PIRATION DATE;	09/08/2011
DR 4016, 10/97 (Provid	us Editions May I	le Used) AP954556	533 P O F	949 .	Page 1 of 3

PELONI

:386 758-2187

2/ 3.

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

Authority: Chapter 381, F5 & Chapter 100-6, FAC

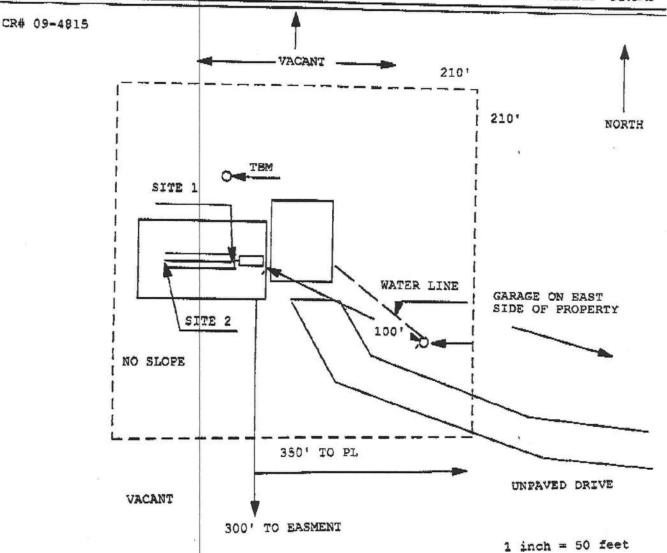
PERMIT # CATE PAID FEE FAID \$ RECEIPT # CR #

154.556 311110 1240:190

APPLICATION FOR: [X] New System [] Existing System [] Holding Tank [] Temporary/Experimental System [] Repair [] Abandonment [] Other(Specify)	en
APPLICANTON FOR TO PROPERTY: APPLICANTS: STATE: 1 Existing System Holding Tank Temporary/Experimental System Repair Abandonment Other (Specify) APPLICANT: KENNETH & INGRID METZLER TELEPHONE: 964-907-8154 AGENT: BAUL LLOYD MAILING ADDRESS: 6305 NW 23RD ST. CITY: MARGATE STATE: FL ZIF: 33063 TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. ATTACH BUILDING FLAN AND TO-SCAL SITE FLAN SHOWING FERTINENT FEATURES REQUIRED BY CARPET (DO-6, FLORIDA ADMINISTRATIVE CODE. PROPERTY INFORMATION (IF LOT IS NOT IN A RECORDED SUBDIVISION, ATTACH LEGAL DESCRIPTION OR DEED LOT: BLOCK: SUBDIVISION: MEETS & BOUNDS DATESUBD: PROPERTY ID \$: 17-28-17-04722-019 [Section/Township/Renge/Parcel] ZONING: AG PROPERTY SIZE: 14.76 ACRES (Sqft/43560) PROPERTY WATER SUPPLY: [X] PRIVATE [] PUBLI PROPERTY STREET ADDRESS: 8683 N US 441 DIRECTIONS TO PROPERTY: 441 NORTH GO S MILES PAST 1-10 TURN RIGHT ONTO EASMENT TO PROPERTY ON LEFT. BUILDING INFORMATION (X) RESIDENTIAL COMMERCIAL Unit Type of No. of Building Persons Business Activity BUILDING INFORMATION (X) RESIDENTIAL COMMERCIAL Unit Type of Section Sect	
MAILING ADDRESS: 6305 NW 23RD ST. CITY: MARGATE STATE: FL ZIF: 33063	
SITE PLAN SHOWING PERTINENT FEATURES REQUIRED BY CHAPTER 100-6	LE
PROPERTY ID #: 17-28-17-04722-019 [Section/Township/Range/Parcel] ZONING: AG	
PROPERTY SIZE: 14.76 ACRES [Sqft/43560] PROPERTY WATER SUPPLY: [X] PRIVATE [] PUBL	IC
DIRECTIONS TO PROPERTY: 441 NORTH GO 5 MILES PAST I-10 TURN RIGHT ONTO EASMENT TO PROPERTY ON LEFT.	
BUILDING INFORMATION [X] RESIDENTIAL [] COMMERCIAL	3
N ZYMDVIID BUSINESS ACLIVITY	
1 HOUSE 3 2180 2	
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V/	

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan Permit Application Number: 10-100-10

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Not Appro Plan Approved / Columbia CHD CPHU almentions. Notes: See attached for



COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST REQUIRMENTS

MINIMUM PLAN REQUIREMENTS FOR THE FLORIDA BUILDING CODE RESIDENTIAL 2007 ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007 FLORIDA BUILDING CODES RESIDENTIAL. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FIGURE R301.2(4) of the FLORIDA BUILDING CODES RESIDENTIAL (Florida Wind speed map) SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ------ 100 MPH ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE -------110 MPH NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

	APPLICANT – PLEASE	GENERAL REQUIREMENTS: CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	38.2	h Box shal Circled as Applicable	
			Yes	No	N/A
1	Two (2) complete sets of plans of	ontaining the following:	1		
2		ise, drawn to scale, details that are not used shall be marked void	-		
3	Condition space (Sq.	Total (Sq. Ft.) under roof	ШШП	ШШШ	ШП

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

4	Dimensions of lot or parcel of land	
5	Dimensions of all building set backs	
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	
7	Provide a full legal description of property.	

Wind-load Engineering Summary, calculations and any details required

GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	ШШ	Ш	IIIIII
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	1		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	~		
11	Wind importance factor and nature of occupancy	/		
12	The applicable internal pressure coefficient, Components and Cladding			
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	/		

Elevations Drawing including:

14	All side views of the structure	V	
15	Roof pitch		
16	Overhang dimensions and detail with attic ventilation		
17	Location, size and height above roof of chimneys		
18	Location and size of skylights with Florida Product Approval		1
18	Number of stories		
20A	Building height from the established grade to the roofs highest peak		

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	_
21	Raised floor surfaces located more than 30 inches above the floor or grade	
22	All exterior and interior shear walls indicated	
23	Shear wall opening shown (Windows, Doors and Garage doors)	
24	Emergency escape and rescue opening shown in each bedroom (net clear opening shown)	
25	Safety glazing of glass where needed	
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FBCR)	
27	Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FBCR SECTION 311)	
28	Identify accessibility of bathroom (see FBCR SECTION 322)	

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plan (see Florida product approval form)

Items to Include-GENERAL REQUIREMENTS: APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL Each Box shall be Circled as Applicable: FBCR 403: Foundation Plans NO N/A YES Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing. 30 All posts and/or column footing including size and reinforcing 31 Any special support required by soil analysis such as piling. 32 Assumed load-bearing valve of soil Pound Per Square Foot 33 Location of horizontal and vertical steel, for foundation or walls (include # size and type) FBCR 506: CONCRETE SLAB ON GRADE 34 Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed) 35 Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports FBCR 320: PROTECTION AGAINST TERMITES Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. 36 Protection shall be provided by registered termiticides FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls) Show all materials making up walls, wall height, and Block size, mortar type Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect Floor Framing System: First and/or second story Floor truss package shall including layout and details, signed and sealed by Florida Registered 39 Professional Engineer Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, 40 stem walls and/or priers 41 Girder type, size and spacing to load bearing walls, stem wall and/or priers

42 Attachment of joist to girder

Wind load requirements where applicable
Show required under-floor crawl space

Show required covering of ventilation opening

Show required amount of ventilation opening for under-floor spaces

Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &

Show the required access opening to access to under-floor spaces

48	intermediate of the areas structural panel sheathing	/	
	Show Draftstopping, Fire caulking and Fire blocking		
	Show fireproofing requirements for garages attached to living spaces, per FBCR section 309		/
	Provide live and dead load rating of floor framing systems (psf).	/	

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable		ll be
1		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	/		
53	Fastener schedule for structural members per table FBCR 602.3 are to be shown	/		
54	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	/		
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	/		
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCR Table 502.5 (1)	/		
57	Indicate where pressure treated wood will be placed	/		1
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	/		
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail			

FBCR:ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.10 Wood trusses		
	Include a layout and truss details, signed and sealed by Florida Professional Engineer		
	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	1	
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	/	
	Provide dead load rating of trusses	/	

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing	
67	Valley framing and support details	
	Provide dead load rating of rafter system	

FBCR Table 602,3(2) & FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	/	
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas		

FBCR ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering	
	Submit Florida Product Approval numbers for each component of the roof assembles covering	

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter 11 Residential buildings compliance methods. Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each C	Items to Include Each Box shall b Circled as Applicable	
	YES	NO	N/A
73 Show the insulation R value for the following areas of the structure			
74 Attic space	/		
75 Exterior wall cavity			
76 Crawl space	/		
78 Exhaust fans locations in bathrooms	1		
77 Submit two copies of a Manual J sizing equipment or equivalent computation study			
		-	
79 Show clothes dryer route and total run of exhaust duct			
Plumbing Fixture layout shown		1	
80 All fixtures waste water lines shall be shown on the foundation plan			
81 Show the location of water heater	V		
Private Potable Water			

Electrical layout shown including

Reservoir pressure tank gallon capacityRating of cycle stop valve if used

85	Switches, outlets/receptacles, lighting and all required GFCI outlets identified	/	
86			
87	Smoke detectors & Carbon dioxide detectors		
88	Service panel, sub-panel, location(s) and total ampere ratings		
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.	/	

90	Appliances and HVAC equipment and disconnects		
91	Arc Fault Circuits (AFCI) in bedrooms	/	

<u>Disclosure Statement for Owner Builders</u> If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

	Items to Include-
GENERAL REQUIREMENTS:	Each Box shall be
APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Circled as
1. (1) A.C. (1) A.C. (2) A.C.	Applicable

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	Building Permit Application A current Building Permit Application form is to be completed and submitted for all residential projects	/		
93	Parcel Number The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested	/		
94	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	1		
95	City of Lake City A permit showing an approved waste water sewer tap			/
96	Toilet facilities shall be provided for all construction sites	/		
97	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			/
98	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 a 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 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations			~
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the base flood elevation (100 year flood) has been established			1
100				
101	Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.	/		
102	911 Address: If the project is located in an area where a 911 address has not been issued, then application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125	1		

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code, Building shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance (a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became nu and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

When the submitted application is approved for permitting the applican will be notified by phone as to the date and time a building permit will b prepared and issued by the Columbia County Building & Zoning Department

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844 Florida Engineering Certificate of Authorization Number: 0 278 Florida Certificate of Product Approval # FL1999 Page 1 of 1 Document ID:1U5G437-Z0123100026

Truss Fabricator: Bray Truss

Job Identification: QB-287--- Columbia Co., FL

Truss Count: 6

Model Code: Florida Building Code 2007 and 2009 Supplement

Truss Criteria: FBC2007Res/TPI-2002(STD)

Engineering Software: Alpine Software, Version 9.04.

Structural Engineer of Record: The identity of the structural EOR did not exist as of Address: the seal date per section 61G15-31.003(5a) of the FAC

Minimum Design Loads: Roof - 37.0 PSF @ 1.25 Duration

Floor - N/A

Wind - 110 MPH ASCE 7-05 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1

2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.

3. As shown on attached drawings; the drawing number is preceded by: HCUSR437

Details: A1101505-GBLLETIN-BRCLBSUB-

#	Ref	Descri	ption	Drawing#	Date
1	46607-	-T-1 44'	//	10266001	09/23/10
2	46608-	-GE1 44'		10266002	09/23/10
3	46609-	-T-3 24'		10266003	09/23/10
4	46610-	-T-2 24'		10266004	09/23/10
5	46611-	-STRGBL1	24'	10266005	09/23/10
6		-STRGBL2		10266006	09/23/10

Seal Date: 09/23/2010

-Truss Design Engineer-Doug Fleming Florida License Number: 66648 1950 Marley Drive Haines City, FL 33844



Top chord 2x4 Bot chord 2x4 Webs 2x4 1 SP #2 N 1 SP #2 N 1 SP #3

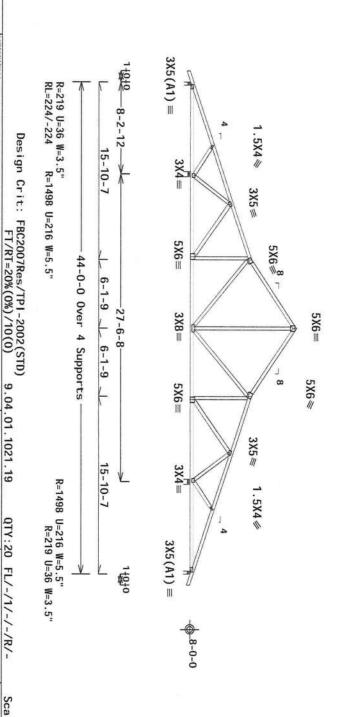
Roof overhang supports 2.00 psf soffit load

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures

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



PLT TYP. Wave

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

ALPINE

A PROPERLY ATTICHED RIGID CELLING.

***IMPORTANT**FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITE BGG, INC. DATE.

BE RESPONSIBLE FOR ANY DEPLATION FROM THIS DESIGN. ANY FALLURE TO BUILD THE TRUSS IN COMPORMANCE WITH

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TOT.LD.

37.0 PSF 1.25

SEQN-

62827

SPACING

24.0"

JREF- 1U5G437_Z01

E EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND SEACING,
DAMPONEUT SAFETY MIRORANTION), TUBLISHED BUT FIT (TRUSS PLATE INSTITUTE, 218

ALEXANDRIA, VA. 2234) AND WICK (MODO TRUSS COMMIL OF AMERICA. 6300

STALL HAVE PROPERTY ATTACHED STRUCTURAL PARELS AND BOTTOM CHORD SHALL HAVE
TO SHALL HAVE PROPERTY ATTACHED STRUCTURAL PARELS AND BOTTOM CHORD SHALL HAVE

9.04.01.1021.19

QTY:20 FL/-/1/-/-/R/-

TC LL

20.0 PSF

REF R437-- 46607

Scale = .125"/Ft.

TC DL

7.0 PSF

DATE

09/23/10

BC LL BC DL

0.0 PSF

HC-ENG TCE/DF

10.0 PSF

DRW HCUSR437 10266001

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

Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24.0° OC designed to support 2-0-0 top chord outlookers. Cladding load shall not exceed 5.00 PSF. Top chord must not be cut or notched.

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

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

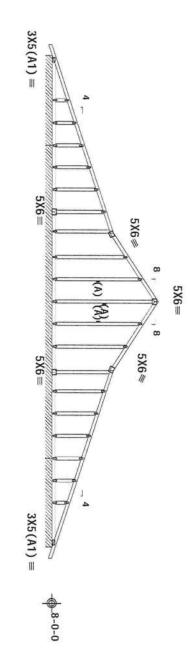
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

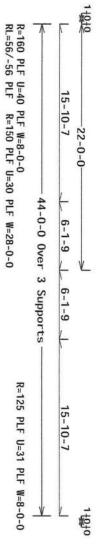
See DWGS A11015050109 & GBLLETIN0109 for more requirements

(A) Continuous lateral bracing equally spaced on member.

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



9-8-7



Note: All Plates Are 1.5X4 Except As Shown.

Hames City, FL 33844 FL COA #0 278	ITW Building Components Group Inc.		ALPINE	\ /	>		PLT TYP. Wave	
BUILDING DESIGNER PER ANS/7P) 1 SEC. 2.		DESIGN COMPORNS WITH APPLICABLE PROVISSIONS OF MOS (MATIGNAL DESIGN FREE, BY AFAPA) AND THI. IT WEGG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W.HVS5/K), ASTM AGSS DRADE 40/EG (W.K/H,SS) GALV. STELL APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 16GA-Z.	BE RESPONSIBLE FOR MY DEVIATION FOR THIS DESIGN, MY FALLER TO BUILD THE TRUSS IN COMFORMANCE WITH THE TO SELECTION OF TRUSSES. TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BBACING OF TRUSSES.	A PROPERTY ATTACHED RIGHD CELLING.	ENTERRISE LANGUATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE	***BANNING** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY HATGMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 MODIN LEE SERSET SHITE TO ALEXANDRIA VA 2021AL NO WERE ASSOCIATION TRUSS COMPONENT OF MARGINA.		Design Crit: FBC2007Res/TPI-2002(STD)
TANONAL EN	SH TORIOGON	STATE OF A	* No. 66648	ON ICENSE TO	Sous Pleas	A STATE OF THE PARTY OF THE PAR	9.04.01.1021.19 QTY	
SPACING 24.0"	ORIO 3 '10 DUR.FAC. 1.25	TOT.LD.	BC LL	BC DL	TC DL	TC LL	QTY:2 FL/-/1/-/-/R/-	
24.0"	1.25	37.0 PSF SEQN-	0.0 PSF	10.0 PSF	7.0 PSF DATE	20.0 PSF	/-/-/R/-	
JREF- 1U5G437_Z01		SEQN- 62824	0.0 PSF HC-ENG TCE/DF	10.0 PSF DRW HCUSR437 10266002	DATE 09/23/10	20.0 PSF REF R437 46608	Scale = .125"/Ft.	

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR.

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

Roof overhang supports 2.00 psf soffit load.

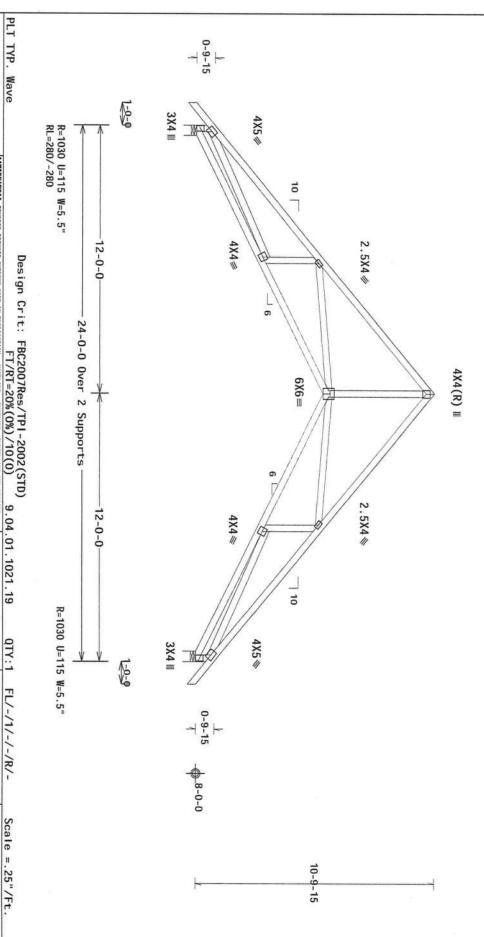
Calculated horizontal deflection is 0.16" due to live load and 0.15" due to dead load.

110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. $lw=1.00\ GCpi(+/-)=0.18$

Wind reactions based on MWFRS pressures.

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

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



ITW Building Components Group

ALPINE

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DUR. FAC.

TOT.LD.

37.0 PSF 1.25

SEQN-

62833

SPACING

24.0"

JREF- 1U5G437_Z01

OUIDE EXTREME CARE IN FRANCIACION, MANDI MO, SHIPPING, INSTALLING MOSECING, MAISTO, MARCICA, MARCICA,

TC DL

7.0 PSF

DATE

09/23/10

TC LL

20.0 PSF

REF R437-- 46610

BC LT

0.0 PSF

DRW HCUSR437 10266004 HC-ENG TCE/DF

10.0 PSF

Haines City, FL 33844 FL COA #0 278

Top chord 2x4 SP #2 N Bot chord 2x4 SP #2 N Webs 2x4 SP #3 :W2, W8 2x4 SP #2

Roof overhang supports 2.00 psf soffit load.

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers. Cladding load shall not exceed 5.00 PSF. Top chord must not be cut or

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

anywhere in roof, CAT II, psf. Iw=1.00 GCpi(+/-)=0. 110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures

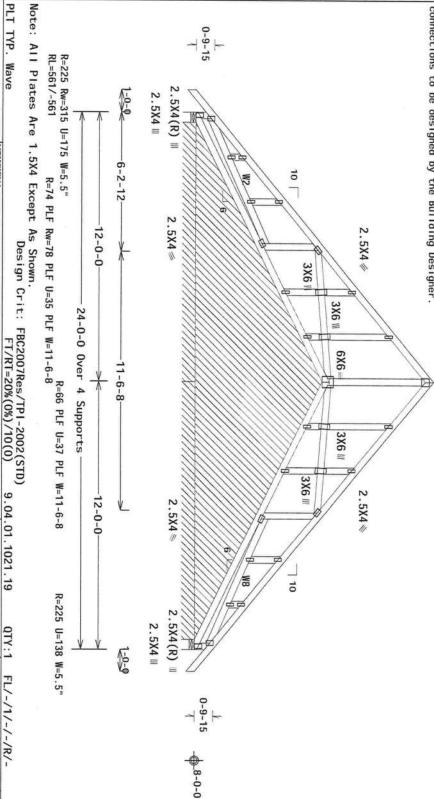
See DWGS A11015050109 & GBLLETIN0109 for more requirements.

Bottom chord checked for 10.00 psf non-concurrent live load

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

Shim all supports to solid bearing

4X4



10-9-15

A PROPERLY ATTACHED RIGID CEILING 9.04.01.1021.19

ITW Building Components Group

ALPINE

Haines City, FL 33844 FL COA #0 278



QTY:1

FL/-/1/-/-/R/-

Scale = .25"/Ft

	10 [*	naci nasi	NEW TOWN	_
SPACING	DUR.FAC.	TOT.LD.	BC LT	BC DL	TC DL	TC LL
24.0"	1.25	37.0 PSF	0.0 PSF	10.0 PSF	7.0 PSF	20.0 PSF
JREF- 1U5G437_Z01		SEQN- 62837	HC-ENG TCE/DF	DRW HCUSR437 10266005	DATE 09/23/10	REF R437 46611

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

Truss spaced at 24.0" OC designed to support 2-0-0 top chord outlookers. Cladding load shall not exceed 5.00 PSF. Top chord must not be cut or notched.

Bottom chord checked for 10.00 psf non-concurrent live load

The Building Designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections 4X4=to be designed by the Building Designer.

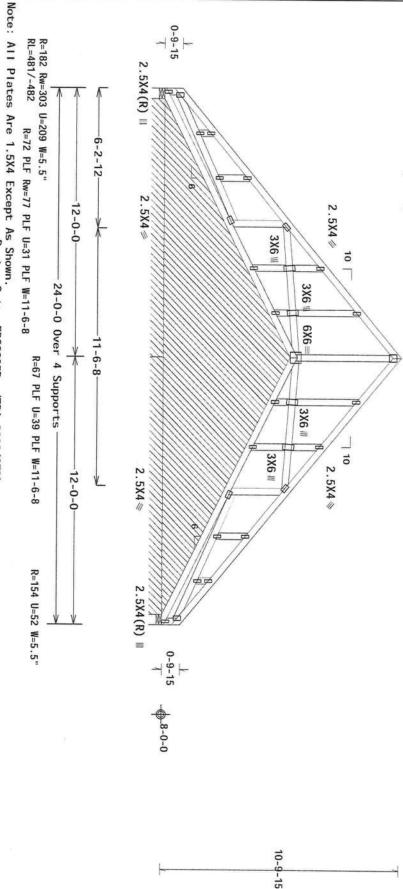
110 mph wind, 15.00 ft mean hgt, ASCE 7-05, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=3.5 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWGS A11015050109 & GBLLETIN0109 for more requirements

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

Shim all supports to solid bearing.



PLT TYP. Wave

Design Crit: FBC2007Res/TPI-2002(STD)

9.04.01.1021.19

QTY:1

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FT/RT=20%(0%)/10(0) 9.0

EXTREME CARE IN FARRICATION, HANDLING, SHIPPING, HISTALLING AND BRACING,
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ALEXANDRIA, VA. 22314) AND BYEA (1800) TRUSS COUNCE, SO CHARLES, UNICES SHIPPING, TO REFORM HISTORIAN HISTORIA

REFER TO BCS1 (BUILDING COMPONE MORTH LEE STREET, SUITE 312, ALEXX ENTERPRISE LANE, MADISON, WI 53 OTHERWISE INDICATED TOP CHORD SHAL A PROPERLY ATTACHED RIGID CEILING

TW Building Components Group

DUR. FAC

TOT.LD.

37.0 PSF 1.25 24.0"

SEQN-

62843

SPACING

JREF - 1U5G437_Z01

BC LT

10.0 PSF

0.0 PSF

DRW HCUSR437 10266006 HC-ENG TCE/DF TC DL

7.0 PSF

DATE

09/23/10

TC LL

20.0 PSF

REF R437-- 46612

Scale = .25"/Ft.

ALPINE

Haines City, FL 33844 FL COA #0 278

paul's heating & air
158 paden place statenville, ga 31648
Phone: 559-8232 Fax: 5597533 E-mail: paden@surfsouth.com

PROPOSAL FOR:

wiser-metzler 2272sq ft

10/1/2010



paul's heating & air
158 paden place statenville, ga 31648
Phone: 559-8232 Fax: 5597533 E-mail: paden@surfsouth.com

Heat Load Summary Report for wiser-metzler

Room Name	Square Ft.	Heating Loss BTUH	Hydronic Heat Linear Ft.		/ Sensible ain BTUH	Cooling Gain BTUH	Cooling Tons	Cooling
wic	77	1279	2.13	78	/ 877	954	0.08	32
mbath	143	2001	3.33	144	/ 2108	2252	0.19	75
mbed	340	8332	13.89	1012	/ 5097	6110	0.51	204
break	276	18773	31.29	1711	/ 21456	23166	1.93	772
din-kit	322	2794	4.66	432	/ 2023	2455	0.2	82
great	460	15920	26.53	1958	/ 12817	14775	1.23	492
util	77	856	1.43	78	/ 690	767	0.06	26
bath	70	1243	2.07	70	/ 1620	1691	0.14	56
bed1	154	3104	5.17	155	/ 3135	3290	0.27	110
bed3	154	6756	11.26	825	/ 4528	5353	0.45	178
TOTALS	2073	61058	101.76	6463	/ 54351	60813	5.07	202

Disclaimer

These computed results should be treated as estimates only and should be viewed as only one of the many tools required for a professional installation. The installing contractor's experience and expert judgement are also major factors in sizing and installing a complete system. The weather, customer usage, duct installation, and structure design may vary on each estimate and should be taken into account. Correct system sizing is based on the systems ability to meet both latent and sensible heat requirements, not just total BTUs.

paul's heating & air

158 paden place statenville, ga 31648 Phone: 559-8232 Fax: 5597533 E-mail: paden@surfsouth.com

Heat Load Detail Report for wiser-metzler

Room 1 of 10

		Room Specification	ns: wic		
Room Length (Ft.):	11	Sq. Ft windows facing N	IE & NW: -	Watts Incandescent Light:	44
Room Width (Ft.):	7	Sq. Ft windows facing S		Watts Flourescent Light:	-
Room Height (Ft.):	9	Sq. Ft windows facing S	SE & SW: -	Duct Length from A/H to room:	33
Exposed Wall Length (Ft.):	18	Number of Exterior Doo	rs: -	Number of Large Electric Motors:	
Wall against unconditioned room	(Ft.) :	Sq. Ft. Exterior Doors:	-	Average Electric Motor Horsepower	
Sq. Ft windows facing North:	-	Number of People in Ro	oom: -	BTUH Appliance Sensible Heat:	
Sq. Ft windows facing E & W:				BTUH Appliance Latent Heat:	
Indo	or/Outdoo	or Design Temperatur	es (degrees	Farenheit)	
Summer:		12000	nter:	an communication and state of	
Inside (Thermostat setting):		74 Insi	de (Thermostat s	setting): 72	
Outside (Above ground):			side (Above grou		
Outside (Below ground):			side (Below grou		

Applicable Temperatures: Above Ceiling: Attic or Crawl Space Below Floor: Concrete Slab Exposed Walls: Above Ground

97

80

60

85

130

Unconditioned Space :

Unconditioned Basement:

Below Floor Crawl Space:

Above Ceiling (Attic/Crawl Space):

Concrete Slab (Ground temperature):

45

55

55

50

Unconditioned Space:

Unconditioned Basement:

Below Floor Crawl Space:

Above Ceiling (Attic/Crawl Space):

Concrete Slab (Ground temperature):

Design Conditions		Insulation Values (U-Factors)	
Occupant Sensible Load (BTUH per person):	250	Exposed Walls (Above Ground):	.080
Occupant Latent Load (BTUH per person):	200	Exposed Walls (Below Ground):	.5
Duct Insulation Factor:	1	Partitions:	.075
Duct Temperature Difference (Summer):	20	Roof/Ceiling:	.055
Duct Temperature Difference (Winter):	45	Floor (Above basement) :	.083
Humidity Difference Inside/Outside % (Summer) :	20	Floor (Concrete slab) :	.001
Humidity Difference Inside/Outside %(Winter):	15	Floor (Between conditioned spaces):	.287
Fresh Air Per Person (CFM):	2	Doors:	.500
Air Change Factor (Air change per hour) :	.5	Windows:	.900
Space Shading Factor:	.4		
Air Handler Design Cooling (CFM per ton):	400		
Hydronic Heat (BTUH per linear ft :	600		

Calculated Room Results - Summer Heat Gains

Wall Heat Gain (BTUH) :	298	Appliance/Elec Motor Latent Heat Gain (BTUH) :	0
Ceiling or Roof Heat Gain (BTUH):	237	Appliance/Elec Motor Sensible Heat Gain (BTUH	1):150
Floor Heat Gain (BTUH) :	0	Ventilation Latent Heat Gain (BTUH):	78
Glass Heat Gain (BTUH):	0	Ventilation Sensible Gain (BTUH):	144
Exterior Door & North Window Heat Gain (BTUH	H): 0	Summer Total Latent Heat Gain:	78
Solar Heat Gain (BTUH) :	0	Summer Total Sensible Heat Gain (BTUH):	877
Total Transmission Heat Gain (BTUH):	536	TOTAL SUMMER COOLING LOAD (BTUH):	954

Calculated Room Results - Winter Heat Losses

Transmission Heat Losses (BTUH):	896	Latent Ventilation Heat Losses (BTUH):	58
Sensible Ventilation Heat Losses (BTUH):	325	Hydronic Heat(Linear Ft.):	2
1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TOTAL WINTER HEATING LOAD (BTUH):	1279

Calculated Totals for Entire Structure

Size of Structure (Sq. Ft.):	2073	Total Sensible Heat Gain (BTUH):	54351
Total Heat Loss (BTUH):	61058	Total Cooling Gain (BTUH):	60813
Total Hydronic Heat (Linear Ft.):	101.76	Total Cooling Requirement (Tons):	5.07
Total Latent Heat Gain (BTUH):	6463	Total Cooling CFM:	2027

Disclaimer

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Heat Load Detail Report for wiser-metzler

	100m 2 or	10		
Poor	Specification	one: mbath		
			Matte Incordescent Lights	
	Ft windows faci		Watts Incandescent Light:	
	Ft windows faci		Watts Flourescent Light:	1222
	Ft windows faci		Duct Length from A/H to roo	
	mber of Exterior		Number of Large Electric Mo	
	Ft. Exterior Doc		Average Electric Motor Hors	
	mber of People i	n Room:	BTUH Appliance Sensible H	
Sq. Ft windows facing E & W: 9			BTUH Appliance Latent Hea	at:
Indoor/Outdoor Des	ign Tempera	tures (degrees F	arenheit)	
Summer:	•	Winter:	CANCEL CONTROL OF THE	
Inside (Thermostat setting):	74	Inside (Thermostat se	etting):	72
Outside (Above ground):	97	Outside (Above groun		20
Outside (Below ground):	65	Outside (Below groun		60
Unconditioned Space :	97	Unconditioned Space		65
Above Ceiling (Attic/Crawl Space) :	130	Above Ceiling (Attic/0		45
Concrete Slab (Ground temperature) :	80	Concrete Slab (Groun		55
Unconditioned Basement :	60	Unconditioned Baser		55
Below Floor Crawl Space :	85	Below Floor Crawl Sp	pace :	50
And in the Towns and the Advance On History Addition to	Crowd Cross D	Jalau Flaar Canarata	Clab Ermanad Waller Abarra	Cround
Applicable Temperatures: Above Ceiling: Attic or	Crawi Space B	selow Floor: Concrete	Slab Exposed Walls: Above	Ground
Design Conditions			Values (U-Factors)	
Occupant Sensible Load (BTUH per person):	250	Exposed Walls (Abov		.080
Occupant Latent Load (BTUH per person):	200	Exposed Walls (Belo		.5
Duct Insulation Factor :	1	Partitions :		.075
Duct Temperature Difference (Summer):	20	Roof/Ceiling:		.055
Duct Temperature Difference (Winter):	45	Floor (Above baseme	ent):	.083
Humidity Difference Inside/Outside % (Summer)	: 20	Floor (Concrete slab)):	.001
Humidity Difference Inside/Outside %(Winter):	15	Floor (Between cond	itioned spaces):	.287
Fresh Air Per Person (CFM):	2	Doors:	100	.500
Air Change Factor (Air change per hour) :	.5	Windows:		.900
Space Shading Factor :	.4			
Air Handler Design Cooling (CFM per ton):	400			
Hydronic Heat (BTUH per linear ft :	600			
Calculated Por	om Paculte .	Summer Heat G	aine	
	232		r Latent Heat Gain (BTUH) :	0
Wall Heat Gain (BTUH):				
Ceiling or Roof Heat Gain (BTUH):	440		r Sensible Heat Gain (BTUH)	
Floor Heat Gain (BTUH):	1	Ventilation Latent He		144
Glass Heat Gain (BTUH):	170	Ventilation Sensible		267
Exterior Door & North Window Heat Gain (BTUH		Summer Total Laten		144
Solar Heat Gain (BTUH):	774		ble Heat Gain (BTUH):	2108
Total Transmission Heat Gain (BTUH):	1617	TOTAL SUMMER C	OOLING LOAD (BTUH) :	2252
Calculated Ro	om Resulte .	- Winter Heat Los	292	
Calculated NO	Jill Nooules	Tallicon Float Los	33C3	400

Transmission Heat Losses (BTUH):	1289	Latent Ventilation Heat Losses (BTUH):	108
Sensible Ventilation Heat Losses (BTUH):	604	Hydronic Heat(Linear Ft.):	3
		TOTAL WINTER HEATING LOAD (BTUH):	2001

Calculated Totals for Entire Structure

Size of Structure (Sq. Ft.):	2073	Total Sensible Heat Gain (BTUH):	54351
Total Heat Loss (BTUH):	61058	Total Cooling Gain (BTUH):	60813
Total Hydronic Heat (Linear Ft.):	101.76	Total Cooling Requirement (Tons):	5.07
Total Latent Heat Gain (BTUH):	6463	Total Cooling CFM:	2027

Disclaimer

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Heat Load Detail Report for wiser-metzler Room 3 of 10

Room Sp	ecifications:	mbed
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Room Length (Ft.):	17	Sq. Ft windows facing NE & NW:	-	Watts Incandescent Light:	44
Room Width (Ft.):	20	Sq. Ft windows facing South:	-	Watts Flourescent Light:	
Room Height (Ft.):	9	Sq. Ft windows facing SE & SW:	-	Duct Length from A/H to room:	33
Exposed Wall Length (Ft.):	36	Number of Exterior Doors:	1	Number of Large Electric Motors:	-
Wall against unconditioned room	(Ft.):-	Sq. Ft. Exterior Doors:	28	Average Electric Motor Horsepower:	
Sq. Ft windows facing North:	9	Number of People in Room:		BTUH Appliance Sensible Heat:	
Sq. Ft windows facing E & W:	9	1973		BTUH Appliance Latent Heat:	

Indoor/Outdoor Design Temperatures (degrees Farenheit)

Summer:	= :	Winter:	
Inside (Thermostat setting):	74	Inside (Thermostat setting):	72
Outside (Above ground):	97	Outside (Above ground :	20
Outside (Below ground):	65	Outside (Below ground) :	60
Unconditioned Space :	97	Unconditioned Space :	65
Above Ceiling (Attic/Crawl Space):	130	Above Ceiling (Attic/Crawl Space):	45
Concrete Slab (Ground temperature) :	80	Concrete Slab (Ground temperature) :	55
Unconditioned Basement :	60	Unconditioned Basement :	55
Below Floor Crawl Space :	85	Below Floor Crawl Space :	50

Applicable Temperatures: Above Ceiling: Attic or Crawl Space Below Floor: Concrete Slab Exposed Walls: Above Ground

Design Conditions Insulation Val	ues (U-Factors)
----------------------------------	-----------------

Occupant Sensible Load (BTUH per person) :	250	Exposed Walls (Above Ground):	.080
Occupant Latent Load (BTUH per person) :	200	Exposed Walls (Below Ground):	.5
Duct Insulation Factor :	1	Partitions :	.075
Duct Temperature Difference (Summer):	20	Roof/Ceiling:	.055
Duct Temperature Difference (Winter):	45	Floor (Above basement) :	.083
Humidity Difference Inside/Outside % (Summer)	: 20	Floor (Concrete slab) :	.001
Humidity Difference Inside/Outside %(Winter):	15	Floor (Between conditioned spaces):	.287
Fresh Air Per Person (CFM):	2	Doors :	.500
Air Change Factor (Air change per hour) :	.5	Windows:	.900
Space Shading Factor :	.4		
Air Handler Design Cooling (CFM per ton)	400		

Calculated Room Results - Summer Heat Gains

600

Hydronic Heat (BTUH per linear ft :

Ouloulucu 1100	III I COOUNICO	Cultillioi ficat Callio	
Wall Heat Gain (BTUH):	596	Appliance/Elec Motor Latent Heat Gain (BTUH):	0
Ceiling or Roof Heat Gain (BTUH):	1047	Appliance/Elec Motor Sensible Heat Gain (BTUH)	:150
Floor Heat Gain (BTUH) :	2	Ventilation Latent Heat Gain (BTUH):	1012
Glass Heat Gain (BTUH):	170	Ventilation Sensible Gain (BTUH):	1877
Exterior Door & North Window Heat Gain (BTUH)	: 357	Summer Total Latent Heat Gain:	1012
Solar Heat Gain (BTUH) :	774	Summer Total Sensible Heat Gain (BTUH):	5097
Total Transmission Heat Gain (BTUH):	2947	TOTAL SUMMER COOLING LOAD (BTUH):	6110

Calculated Room Results - Winter Heat Losses

Transmission Heat Losses (BTUH):	3329	Latent Ventilation Heat Losses (BTUH):	759
Sensible Ventilation Heat Losses (BTUH):	4243	Hydronic Heat(Linear Ft.):	14
PORTER OF A MANUFACTURE CONTINUES AND THE CONTINUES AND THE THEORY STREET, AND THE PROPERTY AND THE PROPERTY OF THE PROPERTY O		TOTAL WINTER HEATING LOAD (BTUH):	8332

Calculated Totals for Entire Structure

Size of Structure (Sq. Ft.):	2073	Total Sensible Heat Gain (BTUH):	54351
Total Heat Loss (BTUH):	61058	Total Cooling Gain (BTUH):	60813
Total Hydronic Heat (Linear Ft.):	101.76	Total Cooling Requirement (Tons):	5.07
Total Latent Heat Gain (BTUH):	6463	Total Cooling CFM:	2027

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Heat Load Detail Report for wiser-metzler

Room 4 of 10

		Room Specifications: break			
Room Length (Ft.):	12	Sq. Ft windows facing NE & NW:	-	Watts Incandescent Light:	44
Room Width (Ft.):	23	Sq. Ft windows facing South:	-	Watts Flourescent Light:	
Room Height (Ft.):	12	Sq. Ft windows facing SE & SW:		Duct Length from A/H to room:	33
Exposed Wall Length (Ft.):	47	Number of Exterior Doors:	2	Number of Large Electric Motors:	
Wall against unconditioned room (Ft.):-	Sq. Ft. Exterior Doors:	28	Average Electric Motor Horsepower:	
Sq. Ft windows facing North:	-	Number of People in Room:	-	BTUH Appliance Sensible Heat:	

Indoor/Outdoor Design Temperatures (degrees Farenheit)

BTUH Appliance Latent Heat:

Summer:		Winter:	
Inside (Thermostat setting):	74	Inside (Thermostat setting):	72
Outside (Above ground):	97	Outside (Above ground :	20
Outside (Below ground):	65	Outside (Below ground) :	60
Unconditioned Space :	97	Unconditioned Space :	65
Above Ceiling (Attic/Crawl Space):	130	Above Ceiling (Attic/Crawl Space):	45
Concrete Slab (Ground temperature) :	80	Concrete Slab (Ground temperature):	55
Unconditioned Basement :	60	Unconditioned Basement :	55
Below Floor Crawl Space :	85	Below Floor Crawl Space :	50

Applicable Temperatures: Above Ceiling: Attic or Crawl Space Below Floor: Concrete Slab Exposed Walls: Above Ground

Design Conditions	Insulation Values (U-Factors)

Occupant Sensible Load (BTUH per person) :	250	Exposed Walls (Above Ground):	.080
Occupant Latent Load (BTUH per person):	200	Exposed Walls (Below Ground):	.5
Duct Insulation Factor :	1	Partitions :	.075
Duct Temperature Difference (Summer):	20	Roof/Ceiling:	.055
Duct Temperature Difference (Winter):	45	Floor (Above basement) :	.083
Humidity Difference Inside/Outside % (Summer) :	20	Floor (Concrete slab) :	.001
Humidity Difference Inside/Outside %(Winter):	15	Floor (Between conditioned spaces):	.287
Fresh Air Per Person (CFM):	2	Doors:	.500
Air Change Factor (Air change per hour) :	.5	Windows:	.900
Space Shading Factor:	.4		
Air Handler Design Cooling (CFM per ton)	400		

Air Handler Design Cooling (CFM per ton): 400
Hydronic Heat (BTUH per linear ft: 600

150

Sq. Ft windows facing E & W:

Calculated Room Results - Summer Heat Gains

Wall Heat Gain (BTUH) :	1038	Appliance/Elec Motor Latent Heat Gain (BTUH):	0
Ceiling or Roof Heat Gain (BTUH):	850	Appliance/Elec Motor Sensible Heat Gain (BTUH)	:150
Floor Heat Gain (BTUH) :	2	Ventilation Latent Heat Gain (BTUH):	1711
Glass Heat Gain (BTUH) :	2829	Ventilation Sensible Gain (BTUH) :	3171
Exterior Door & North Window Heat Gain (BTUH) :	270	Summer Total Latent Heat Gain:	1711
Solar Heat Gain (BTUH):	12900	Summer Total Sensible Heat Gain (BTUH):	21456
Total Transmission Heat Gain (BTUH):	17889	TOTAL SUMMER COOLING LOAD (BTUH):	23166

Calculated Room Results - Winter Heat Losses

Transmission Heat Losses (BTUH):	10321	Latent Ventilation Heat Losses (BTUH):	1283
Sensible Ventilation Heat Losses (BTUH):	7169	Hydronic Heat(Linear Ft.):	31
ASSETTED A TOURTH OF A REPORT OF A TOUR AND A SET OF A TOUR AND A SET OF A SET OF A TOUR AND A SET OF A TO		TOTAL WINTER HEATING LOAD (BTUH):	18773

Calculated Totals for Entire Structure

Size of Structure (Sq. Ft.):	2073	Total Sensible Heat Gain (BTUH):	54351
Total Heat Loss (BTUH):	61058	Total Cooling Gain (BTUH):	60813
Total Hydronic Heat (Linear Ft.):	101.76	Total Cooling Requirement (Tons):	5.07
Total Latent Heat Gain (BTUH):	6463	Total Cooling CFM:	2027

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Heat Load Detail Report for wiser-metzler

		Room Specifications: din-kit	t		
Room Length (Ft.):	14	Sq. Ft windows facing NE & NW:	_	Watts Incandescent Light:	44
Room Width (Ft.):	23	Sq. Ft windows facing South:	-	Watts Flourescent Light:	
Room Height (Ft.):	12	Sq. Ft windows facing SE & SW:		Duct Length from A/H to room:	33
Exposed Wall Length (Ft.):		Number of Exterior Doors:		Number of Large Electric Motors:	

Room H 33 Expose Wall against unconditioned room (Ft.):-Sq. Ft. Exterior Doors: Average Electric Motor Horsepower: BTUH Appliance Sensible Heat: Sq. Ft windows facing North: Number of People in Room: Sq. Ft windows facing E & W: BTUH Appliance Latent Heat:

Indoor/Outdoor Design Temperatures (degrees Farenheit)

Summer:		Winter:	
Inside (Thermostat setting) :	74	Inside (Thermostat setting):	72
Outside (Above ground):	97	Outside (Above ground :	20
Outside (Below ground):	65	Outside (Below ground):	60
Unconditioned Space :	97	Unconditioned Space :	65
Above Ceiling (Attic/Crawl Space):	130	Above Ceiling (Attic/Crawl Space):	45
Concrete Slab (Ground temperature) :	80	Concrete Slab (Ground temperature):	55
Unconditioned Basement :	60	Unconditioned Basement :	55
Below Floor Crawl Space :	85	Below Floor Crawl Space :	50

Applicable Temperatures: Above Ceiling: Attic or Crawl Space Below Floor: Concrete Slab Exposed Walls: Above Ground

Design Conditions Insulation Values (U-Factors)

Occupant Sensible Load (BTUH per person) :	250	Exposed Walls (Above Ground):	.080
Occupant Latent Load (BTUH per person):	200	Exposed Walls (Below Ground):	.5
Duct Insulation Factor :	1	Partitions :	.075
Duct Temperature Difference (Summer):	20	Roof/Ceiling:	.055
Duct Temperature Difference (Winter):	45	Floor (Above basement) :	.083
Humidity Difference Inside/Outside % (Summer) :	20	Floor (Concrete slab) :	.001
Humidity Difference Inside/Outside %(Winter):	15	Floor (Between conditioned spaces):	.287
Fresh Air Per Person (CFM):	2	Doors:	.500
Air Change Factor (Air change per hour) :	.5	Windows:	.900
Space Shading Factor:	.4		
Air Handler Design Cooling (CEM per ton):	400		

Air Handler Design Cooling (CFM per ton): Hydronic Heat (BTUH per linear ft : 600

Calculated Room Results - Summer Heat Gains

Wall Heat Gain (BTUH) :	0	Appliance/Elec Motor Latent Heat Gain (BTUH) :	0
Ceiling or Roof Heat Gain (BTUH):	992	Appliance/Elec Motor Sensible Heat Gain (BTUH	1):150
Floor Heat Gain (BTUH) :	2	Ventilation Latent Heat Gain (BTUH):	432
Glass Heat Gain (BTUH) :	0	Ventilation Sensible Gain (BTUH):	801
Exterior Door & North Window Heat Gain (BTL	JH): 0	Summer Total Latent Heat Gain:	432
Solar Heat Gain (BTUH) :	0	Summer Total Sensible Heat Gain (BTUH):	2023
Total Transmission Heat Gain (BTUH):	994	TOTAL SUMMER COOLING LOAD (BTUH):	2455

Calculated Room Results - Winter Heat Losses

Transmission Heat Losses (BTUH):	658	Latent Ventilation Heat Losses (BTUH):	324
Sensible Ventilation Heat Losses (BTUH):	1812	Hydronic Heat(Linear Ft.):	5
THE SECOND STREET AND SECOND S		TOTAL WINTER HEATING LOAD (BTUH):	2794

Calculated Totals for Entire Structure

2073	Total Sensible Heat Gain (BTUH):	54351
61058	Total Cooling Gain (BTUH):	60813
101.76	Total Cooling Requirement (Tons):	5.07
6463	Total Cooling CFM:	2027
	61058 101.76	61058 Total Cooling Gain (BTUH): 101.76 Total Cooling Requirement (Tons):

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Heat Load Detail Report for wiser-metzler

Room 6 of 10

33

54351

60813

5.07

2027

	Room 6 of	10		
Room Length (Ft.): 23 Sq. Room Width (Ft.): 20 Sq. Room Height (Ft.): 12 Sq. Exposed Wall Length (Ft.): 39 Nur Wall against unconditioned room (Ft.): Sq.	The specifical of the specific	ing NE & NW: ing South: ing SE & SW: Doors: ors:	 Watts Incandescent Light Watts Flourescent Light: Duct Length from A/H to r Number of Large Electric Average Electric Motor Ho BTUH Appliance Sensible BTUH Appliance Latent H 	oom: Motors: orsepower: Heat:
Indoor/Outdoor Des	ign Temper	atures (degi	rees Farenheit)	
Summer:	•	Winter:		
Inside (Thermostat setting):	74	Inside (Therm	ostat setting):	72
Outside (Above ground):	97	Outside (Abov	re ground :	20
Outside (Below ground):	65	Outside (Below	w ground) :	60
Unconditioned Space :	97	Unconditioned	Space:	65
Above Ceiling (Attic/Crawl Space):	130	Above Ceiling	(Attic/Crawl Space):	45
Concrete Slab (Ground temperature) :	80	Concrete Slab	(Ground temperature):	55
Unconditioned Basement :	60	Unconditioned		55
Below Floor Crawl Space :	85	Below Floor C	rawl Space :	50
Applicable Temperatures: Above Ceiling: Attic or 0	Crawl Space I	Below Floor: Co	ncrete Slab Exposed Walls: About	ve Ground
Design Conditions		Insul	ation Values (U-Factors)	
Occupant Sensible Load (BTUH per person):	250		s (Above Ground) :	.080
Occupant Latent Load (BTUH per person):	200		s (Below Ground) :	.5
Duct Insulation Factor:	1	Partitions:		.075
Duct Temperature Difference (Summer) :	20	Roof/Ceiling:		.055
Duct Temperature Difference (Winter):	45	Floor (Above I	pasement) :	.083
Humidity Difference Inside/Outside % (Summer)	: 20	Floor (Concre	에서의 하였습니다. (이 아프라이 III) :	.001
Humidity Difference Inside/Outside %(Winter):	15		n conditioned spaces):	.287
Fresh Air Per Person (CFM) :	2	Doors :		.500
Air Change Factor (Air change per hour) :	.5	Windows:		.900
Space Shading Factor :	.4			
Air Handler Design Cooling (CFM per ton):	400			
Hydronic Heat (BTUH per linear ft :	600			
Calculated Roo	m Results	- Summer H	eat Gains	
Wall Heat Gain (BTUH) :	861	Appliance/Ele	c Motor Latent Heat Gain (BTUH) :	0
Ceiling or Roof Heat Gain (BTUH):	1417	Appliance/Ele	c Motor Sensible Heat Gain (BTUH	1):150
Floor Heat Gain (BTUH) :	3	Ventilation La	tent Heat Gain (BTUH) :	1958
Glass Heat Gain (BTUH):	1132	Ventilation Se	nsible Gain (BTUH) :	3629
Exterior Door & North Window Heat Gain (BTUH): 270		Latent Heat Gain:	1958
Solar Heat Gain (BTUH) :	5160	Summer Total	Sensible Heat Gain (BTUH):	12817
Total Transmission Heat Gain (BTUH):	8843	TOTAL SUM	MER COOLING LOAD (BTUH) :	14775
Calculated Roo	om Results	- Winter He	at Losses	
Transmission Heat Losses (BTUH) :	6247		tion Heat Losses (BTUH) :	1468
Sensible Ventilation Heat Losses (BTUH) :	8205	Hydronic Heat	2007(11) 1 CON (2007(11)) 2017(11) (2017(11) 11) 11(11) 12(11) 12(11) 12(11) 12(11) 12(11) 12(11) 12(11) 12(11)	27
Consider Ventulation Fleat Losses (BTOH).	0200		ER HEATING LOAD (BTUH) :	15920
		. S. Levis Willer	(Dioli).	10020
Calculate	d Totals for	Entire Struc	cture	

Disclaimer

2073

61058

101.76

6463

Size of Structure (Sq. Ft.):

Total Heat Loss (BTUH): Total Hydronic Heat (Linear Ft.):

Total Latent Heat Gain (BTUH):

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Total Sensible Heat Gain (BTUH):

Total Cooling Gain (BTUH): Total Cooling Requirement (Tons):

Total Cooling CFM:

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Heat Load Detail Report for wiser-metzler Room 7 of 10

	Room / or	10		
Poor	m Specifica	tioner util		
	Ft windows fac		 Watts Incandescent Light: 	
	Ft windows fac		 Watts Flourescent Light: 	
Room Height (Ft.): 9 Sq.	Ft windows fac		 Duct Length from A/H to roo 	
	nber of Exterior		 Number of Large Electric Mo 	
	Ft. Exterior Do		 Average Electric Motor Hors 	sepower:
	nber of People	in Room:	 BTUH Appliance Sensible H 	
Sq. Ft windows facing E & W:			BTUH Appliance Latent Hea	at:
Indoor/Outdoor Desi	an Tempera	atures (dear	ees Farenheit)	
Summer:	J	Winter:		
Inside (Thermostat setting) :	74	Inside (Thermo	netat setting) :	72
Outside (Above ground):	97	Outside (Abov		20
Outside (Below ground):	65	Outside (Belov	e ground):	60
Unconditioned Space :	97	Unconditioned		65
Above Ceiling (Attic/Crawl Space) :	130			45
Concrete Slab (Ground temperature) :	80			10.00
Unconditioned Basement :	60			55
		Unconditioned		55
Below Floor Crawl Space :	85	Below Floor C	rawi Space :	50
Applicable Temperatures: Above Ceiling: Attic or C	rawl Space E	Below Floor: Cor	ncrete Slab Exposed Walls: Above	Ground
D! O!M				
Design Conditions			ation Values (U-Factors)	
Occupant Sensible Load (BTUH per person):	250			.080
Occupant Latent Load (BTUH per person):	200		s (Below Ground) :	.5
Duct Insulation Factor :	1	Partitions:		.075
Duct Temperature Difference (Summer):	20	Roof/Ceiling:		.055
Duct Temperature Difference (Winter):	45	Floor (Above b		.083
Humidity Difference Inside/Outside % (Summer) :		Floor (Concret	e slab):	.001
Humidity Difference Inside/Outside %(Winter) :	15	Floor (Between	n conditioned spaces):	.287
Fresh Air Per Person (CFM):	2	Doors:	U2.1 :2	.500
Air Change Factor (Air change per hour):	.5	Windows:		.900
Space Shading Factor:	.4			
Air Handler Design Cooling (CFM per ton):	400			
Hydronic Heat (BTUH per linear ft :	600			
Calculated Roo	m Results .	Summer H	eat Gaine	
Wall Heat Gain (BTUH) :	116			0
	237			0
Ceiling or Roof Heat Gain (BTUH) :			Motor Sensible Heat Gain (BTUH) :	
Floor Heat Gain (BTUH):	0		ent Heat Gain (BTUH) :	78
Glass Heat Gain (BTUH):	0		nsible Gain (BTUH) :	144
Exterior Door & North Window Heat Gain (BTUH)			Latent Heat Gain:	78
Solar Heat Gain (BTUH):	0		Sensible Heat Gain (BTUH):	690
Total Transmission Heat Gain (BTUH):	354	TOTAL SUMN	IER COOLING LOAD (BTUH):	767
Calculated Roo	m Results	- Winter Hea	nt Losses	
Transmission Heat Losses (BTUH) :	473		tion Heat Losses (BTUH) :	58
Sensible Ventilation Heat Losses (BTUH):	325	Hydronic Heat		1
Conside Ventilation Float Losses (51011).	020		ER HEATING LOAD (BTUH) :	856

Disclaimer

Calculated Totals for Entire Structure

Total Sensible Heat Gain (BTUH):

Total Cooling Requirement (Tons):

Total Cooling Gain (BTUH):

Total Cooling CFM:

54351

60813

5.07

2027

2073

61058

101.76

6463

Size of Structure (Sq. Ft.):

Total Hydronic Heat (Linear Ft.):

Total Latent Heat Gain (BTUH):

Total Heat Loss (BTUH):

These computed results should be treated as estimates only and should be viewed as only one of the many tools required for a professional installation. The installing contractor's experience and expert judgement are also major factors in sizing and installing a complete system. The weather, customer usage, duct installation, and structure design may vary on each estimate and should be taken into account. Correct system sizing is based on the systems ability to meet both latent and sensible heat requirements, not just total BTUs.

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Heat Load Detail Report for wiser-metzler Room 8 of 10

	Room o	01 10		
Room Length (Ft.): 10 Sq. Room Width (Ft.): 7 Sq. Room Height (Ft.): 9 Sq. Exposed Wall Length (Ft.): 7 Num Wall against unconditioned room (Ft.): Sq.	Ft windows fa Ft windows fa	acing SE & SW: or Doors: loors:	 Watts Incandescent Light: Watts Flourescent Light: Duct Length from A/H to reduce the control of Large Electric Incomplete the Average Electric Motor Howard Appliance Sensible BTUH Appliance Latent Heat 	oom: Motors: rsepower: Heat:
Indoor/Outdoor Design	gn Tempe	ratures (deg	rees Farenheit)	
Summer:		Winter:	M =21	
Inside (Thermostat setting) :	74		nostat setting):	72
Outside (Above ground):	97	Outside (Abov		20
Outside (Below ground):	65	Outside (Belo		60
Unconditioned Space :	97	Unconditioned		65
Above Ceiling (Attic/Crawl Space):	130		(Attic/Crawl Space) :	45
Concrete Slab (Ground temperature) :	80		(Ground temperature):	55
Unconditioned Basement :	60	Unconditioned		55
Below Floor Crawl Space :	85	Below Floor C	Crawl Space :	50
Applicable Temperatures: Above Ceiling: Attic or C	rawl Space	Below Floor: Co	encrete Slab Exposed Walls: Abov	e Ground
Design Conditions		Insu	lation Values (U-Factors)	
Occupant Sensible Load (BTUH per person) :	250		ls (Above Ground) :	.080
Occupant Latent Load (BTUH per person) :	200		ls (Below Ground) :	.5
Duct Insulation Factor :	1	Partitions :	io (Doioti Groana) .	.075
Duct Temperature Difference (Summer) :	20	Roof/Ceiling:		.055
Duct Temperature Difference (Winter):	45	Floor (Above		.083
Humidity Difference Inside/Outside % (Summer) :		Floor (Concre		.001
Humidity Difference Inside/Outside %(Winter) :	15		en conditioned spaces) :	.287
Fresh Air Per Person (CFM) :	2	Doors :		.500
Air Change Factor (Air change per hour) :	.5	Windows:		.900
Space Shading Factor :	.4			ALT COLUMN
Air Handler Design Cooling (CFM per ton):	400			
Hydronic Heat (BTUH per linear ft :	600			
Calculated Roo	m Results	s - Summer H	leat Gains	
Wall Heat Gain (BTUH) :	116		ec Motor Latent Heat Gain (BTUH) :	0
Ceiling or Roof Heat Gain (BTUH):	216		ec Motor Sensible Heat Gain (BTUH	
Floor Heat Gain (BTUH) :	0		itent Heat Gain (BTUH) :	70
Glass Heat Gain (BTUH) :	170		ensible Gain (BTUH) :	131
Exterior Door & North Window Heat Gain (BTUH)	: 0		Il Latent Heat Gain:	70
Solar Heat Gain (BTUH) :	774	Summer Tota	Il Sensible Heat Gain (BTUH) :	1620
Total Transmission Heat Gain (BTUH):	1276		MER COOLING LOAD (BTUH) :	1691
Calculated Roo	m Results	s - Winter He	at I neses	
Transmission Heat Losses (BTUH):	895		at Losses ation Heat Losses (BTUH) :	53
Sensible Ventilation Heat Losses (BTUH):	295	Hydronic Hea	하게 하게 없는 집에 가게 하게 되는데 하면 그렇게 하는데 하게 하는데	2
Sensible Ventillation Heat Losses (BTOH).	233		TER HEATING LOAD (BTUH):	1243
		TOTAL WINT	ENTIENTING EOND (DIGIT).	1270
Calculated	Totals fo	r Entire Struc	cture	
Size of Structure (Sq. Ft.):	2073		e Heat Gain (BTUH):	54351
Total Heat Loss (PTLIH):	61050		Coin (PTIIU):	60013

Disclaimer

61058

101.76

6463

Total Heat Loss (BTUH):

Total Hydronic Heat (Linear Ft.):

Total Latent Heat Gain (BTUH):

These computed results should be treated as estimates only and should be viewed as only one of the many tools required for a professional installation. The installing contractor's experience and expert judgement are also major factors in sizing and installing a complete system. The weather, customer usage, duct installation, and structure design may vary on each estimate and should be taken into account. Correct system sizing is based on the systems ability to meet both latent and sensible heat requirements, not just total BTUs.

Total Cooling Gain (BTUH):

Total Cooling CFM:

Total Cooling Requirement (Tons):

60813

5.07

2027

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Heat Load Detail Report for wiser-metzler Room 9 of 10

33

60813

5.07

2027

	Room 9	of 10		
Room Length (Ft.): 11 Sq. Room Width (Ft.): 14 Sq. Room Height (Ft.): 9 Sq. Exposed Wall Length (Ft.): 25 Nun Wall against unconditioned room (Ft.): Sq. Sq. Ft windows facing North: 15 Nun Sq. Ft windows facing E & W: 15	Ft windows f Ft windows f Ft windows f nber of Exter Ft. Exterior D nber of Peop	facing SE & SW: ior Doors: Doors: le in Room:	 Watts Incandescent Light: Watts Flourescent Light: Duct Length from A/H to ro Number of Large Electric II Average Electric Motor Ho BTUH Appliance Sensible BTUH Appliance Latent Ho 	oom: Motors: rsepower: Heat:
Indoor/Outdoor Desi	gn Tempe	eratures (deg	rees Farenheit)	
Summer:		Winter:	100	
Inside (Thermostat setting) :	74	Inside (Therm	nostat setting) :	72
Outside (Above ground):	97	Outside (Abov		20
Outside (Below ground):	65	Outside (Belo		60
Unconditioned Space :	97	Unconditioned		65
Above Ceiling (Attic/Crawl Space) :	130		(Attic/Crawl Space) :	45
Concrete Slab (Ground temperature) :	80		b (Ground temperature) :	55
Unconditioned Basement :	60	Unconditioned		55
Below Floor Crawl Space :	85			(Table 1 (Table 1)
below 1 loof Clawl Space.	65	Below Floor C	Jrawi Space :	50
Applicable Temperatures: Above Ceiling: Attic or C	Crawl Space	Below Floor: Co	oncrete Slab Exposed Walls: Abov	e Ground
Design Conditions		Insu	lation Values (U-Factors)	
Occupant Sensible Load (BTUH per person) :	250		ls (Above Ground) :	.080
Occupant Latent Load (BTUH per person) :	200		ls (Below Ground) :	0.5
Duct Insulation Factor :	1		is (below Ground):	.5
Duct Temperature Difference (Summer) :	20	Partitions :		.075
		Roof/Ceiling :		.055
Duct Temperature Difference (Winter):	45	Floor (Above		.083
Humidity Difference Inside/Outside % (Summer) :		Floor (Concre		.001
Humidity Difference Inside/Outside %(Winter) :	15		en conditioned spaces):	.287
Fresh Air Per Person (CFM):	2	Doors:		.500
Air Change Factor (Air change per hour):	.5	Windows:		.900
Space Shading Factor :	.4			
Air Handler Design Cooling (CFM per ton):	400			
Hydronic Heat (BTUH per linear ft :	600			
Calculated Roo	m Results	s - Summer H	leat Gaine	
Wall Heat Gain (BTUH) :	414		c Motor Latent Heat Gain (BTUH) :	0
Ceiling or Roof Heat Gain (BTUH) :	474			0
Floor Heat Gain (BTUH):	1		c Motor Sensible Heat Gain (BTUH)	
Glass Heat Gain (BTUH):	283		tent Heat Gain (BTUH) :	155
Exterior Door & North Window Heat Gain (BTUH)			ensible Gain (BTUH) :	287
Color Hoot Coin (PTIIII)			Latent Heat Gain:	155
Solar Heat Gain (BTUH) :	1290		Sensible Heat Gain (BTUH) :	3135
Total Transmission Heat Gain (BTUH):	2607	TOTAL SUMI	MER COOLING LOAD (BTUH) :	3290
Calculated Roo	m Results	s - Winter He	at I neepe	
Transmission Heat Losses (BTUH):	2337		tion Heat Losses (BTUH) :	116
Sensible Ventilation Heat Losses (BTUH):	650	Hydronic Hea		5
Consists volitilation rical Losses (D1011).	000			The second of the second
		TOTAL WINT	ER HEATING LOAD (BTUH):	3104
Calculated	Totals fo	r Entire Struc	cture	
Size of Structure (Sq. Ft.):	2073		e Heat Gain (BTUH):	54351
Total Heat Loss (BTUH):	61058	Total Cooling	Gain (BTI IH):	60913

Disclaimer

61058

101.76

6463

Total Heat Loss (BTUH):

Total Hydronic Heat (Linear Ft.):

Total Latent Heat Gain (BTUH):

These computed results should be treated as estimates only and should be viewed as only one of the many tools required for a professional installation. The installing contractor's experience and expert judgement are also major factors in sizing and installing a complete system. The weather, customer usage, duct installation, and structure design may vary on each estimate and should be taken into account. Correct system sizing is based on the systems ability to meet both latent and sensible heat requirements, not just total BTUs.

Total Cooling Gain (BTUH):

Total Cooling CFM:

Total Cooling Requirement (Tons):

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Heat Load Detail Report for wiser-metzler

Room 10 of 10

Room Specifications: bed3

		recom opcomoducion bede			
Room Length (Ft.):	14	Sq. Ft windows facing NE & NW:	-	Watts Incandescent Light:	44
Room Width (Ft.):	11	Sq. Ft windows facing South:	-	Watts Flourescent Light:	
Room Height (Ft.):	9	Sq. Ft windows facing SE & SW:		Duct Length from A/H to room:	33
Exposed Wall Length (Ft.):	25	Number of Exterior Doors:	1	Number of Large Electric Motors:	
Wall against unconditioned roo	om (Ft.) :	Sq. Ft. Exterior Doors:	28	Average Electric Motor Horsepower:	

Number of People in Room:

BTUH Appliance Sensible Heat:

Sq. Ft windows facing E & W: 15 BTUH Appliance Latent Heat:

Indoor/Outdoor Design Temperatures (degrees Farenheit)

Sq. Ft windows facing North:

Summer:		Winter:	
Inside (Thermostat setting):	74	Inside (Thermostat setting):	72
Outside (Above ground):	97	Outside (Above ground :	20
Outside (Below ground):	65	Outside (Below ground) :	60
Unconditioned Space :	97	Unconditioned Space :	65
Above Ceiling (Attic/Crawl Space):	130	Above Ceiling (Attic/Crawl Space):	45
Concrete Slab (Ground temperature) :	80	Concrete Slab (Ground temperature) :	55
Unconditioned Basement :	60	Unconditioned Basement :	55
Below Floor Crawl Space :	85	Below Floor Crawl Space :	50

Applicable Temperatures: Above Ceiling: Attic or Crawl Space Below Floor: Concrete Slab Exposed Walls: Above Ground

Design Conditions		Insulation Values (U-Factors)	
Occupant Sensible Load (BTUH per person) :	250	Exposed Walls (Above Ground):	.080
Occupant Latent Load (BTUH per person):	200	Exposed Walls (Below Ground):	.5
Duct Insulation Factor :	1	Partitions :	.075
Duct Temperature Difference (Summer) :	20	Roof/Ceiling:	.055
Duct Temperature Difference (Winter):	45	Floor (Above basement) :	.083
Humidity Difference Inside/Outside % (Summer) :	20	Floor (Concrete slab) :	.001
Humidity Difference Inside/Outside %(Winter):	15	Floor (Between conditioned spaces):	.287
Fresh Air Per Person (CFM):	2	Doors :	.500
Air Change Factor (Air change per hour) :	.5	Windows:	.900
Space Shading Factor :	.4		
Air Handler Design Cooling (CFM per ton):	400		
Hydronic Heat (BTUH per linear ft :	600		

Calculated Room Results - Summer Heat Gains

Wall Heat Gain (BTUH) :	414	Appliance/Elec Motor Latent Heat Gain (BTUH):	0
Ceiling or Roof Heat Gain (BTUH):	474	Appliance/Elec Motor Sensible Heat Gain (BTUH)	:150
Floor Heat Gain (BTUH):	1	Ventilation Latent Heat Gain (BTUH):	825
Glass Heat Gain (BTUH) :	283	Ventilation Sensible Gain (BTUH):	1529
Exterior Door & North Window Heat Gain (BTUH) :	270	Summer Total Latent Heat Gain:	825
Solar Heat Gain (BTUH) :	1290	Summer Total Sensible Heat Gain (BTUH):	4528
Total Transmission Heat Gain (BTUH):	2733	TOTAL SUMMER COOLING LOAD (BTUH):	5353

Calculated Room Results - Winter Heat Losses

Transmission Heat Losses (BTUH):	2679	Latent Ventilation Heat Losses (BTUH):	619
Sensible Ventilation Heat Losses (BTUH):	3458	Hydronic Heat(Linear Ft.):	11
		TOTAL WINTER HEATING LOAD (BTUH):	6756

Calculated Totals for Entire Structure

Size of Structure (Sq. Ft.):	2073	Total Sensible Heat Gain (BTUH):	54351
Total Heat Loss (BTUH):	61058	Total Cooling Gain (BTUH):	60813
Total Hydronic Heat (Linear Ft.):	101.76	Total Cooling Requirement (Tons):	5.07
Total Latent Heat Gain (BTUH):	6463	Total Cooling CFM:	2027

Disclaimer

These computed results should be treated as estimates only and should be viewed as only one of the many tools required for a professional installation. The installing contractor's experience and expert judgement are also major factors in sizing and installing a complete system. The weather, customer usage, duct installation, and structure design may vary on each estimate and should be taken into account. Correct system sizing is based on the systems ability to meet both latent and sensible heat requirements, not just total BTUs.

Florida Energy Code

Completed with Energy Gauge

By:

Paul's Heating & Air, Inc.

					PRO	DJECT							
Title: Building Owner: # of Un Builder Permit Jurisdic Family New/Ex Comme	its: Name: Office: ction: Type: kisting:	New Project FLAsBuilt mr. mezler 1 wiser Single-famil New (From	ly	Cond Total Wors Rotat Cross	ooms: litioned Area Stories: st Case: te Angle: s Ventilation: le House Far	1 No 0			Adress T Lot # Block/St PlatBool Street: County: City, Sta	ubDivision: k:	columbia lake city		
					CLI	MATE							
\checkmark	Desi	gn Location	TN	/IY Site	IECC Zone	Design 97.5 %	Гетр 2.5 %		gn Temp Summer	Heatin Degree D			Daily Tem Range
	FL,	Gainesville	FL_GAINE	SVILLE_REGI	2	32	92	75	70	1305.	5 5	1	Medium
					FLO	OORS							
V	#	Floor Type		Perimete	er	R-Value)	Area			Tile	Wood	Carpet
	2.0		le Edge Insulati	0.0000000000000000000000000000000000000		0		2272 ft²			0.2	0	0.8
					· R	OOF							
/	#	Туре	Mate			able Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch		
	1	Hip	Composition	on shingles 24	61 ft² () ft²	Medium	0.96	No	0	22.6 deg		
					A	ГТІС							
\checkmark	#	Туре		Ventilation	Vent	Ratio (1 in) <i>F</i>	Area	RBS	IRCC			
	1	Full attic		Vented		300	22	72 ft²	N	N			
			2		CE	ILING							
V	#	Ceiling Type	е		R-Value)	Are	a	Framin	g Frac	Tr	uss Ty	ре
	1	Under Attic	(Vented)		30		2272 f	t²	0.1	11		Wood	
					W	ALLS							
\checkmark	#	Ornt	Adjacent To	Wall Type		11	Cavity R-Valu	y ie Are	Shea R-V	athing /alue	Framing Fraction		Solar Absor.
	1	N	Exterior	Frame - Wood			13	1083			0.23		0.75
					DC	ORS							
V	#	Ornt	Door Type				Storms		U-Va	lue	Area		
	1	N	Wood				None		0.460	000	28 ft²		
	2	N	Wood				None		0.460	000	28 ft²		
	3	N	Wood				None		0.460		28 ft²		

					Orientation	WIN shown is the	DOWS entered,		rientation				
1											rhang		
V	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area		Separation	Int Shade	Screenin
	1	N	Metal	Double (Tinte	ed) Yes	0.55	0.6	N	36 ft²	2 ft 0 in	0 ft 0 in	HERS 2006	None
	2	N	Metal	Double (Tinte	d) Yes	0.55	0.6	N	255 ft²	2 ft 0 in	0 ft 0 in	HERS 2006	None
					IN	IFILTRATIO	ON & V	ENTING	3				
\checkmark	Method			SLA	CFM 50	ACH 50	ELA	EqLA			Ventilation — Exhaust CFM		Fan Watts
	22 745 74							(6.5)					
	Default		-//1	0.00036	2145	7.08	117.8	221.5	j (0 cfm	0 cfm	0	0
						COOLIN	G SYS	TEM					
\checkmark	#	System T	уре		Subtype			Efficiency		Capacity	Air Flov	SHR	Ducts
	1	Central U	nit		Split			SEER: 13	5	8 kBtu/hr	1740 cfr	n 0.75	sys#1
						HEATING	SYS	ГЕМ					
$\sqrt{}$	#	System T	уре		Subtype			Efficiency		Capacity	Ducts		
	1	Electric H	leat Pun	пр	None			HSPF: 8.5	5 57	7.9 kBtu/hr	sys#1		
						HOT WAT	ER SY	STEM					
$\sqrt{}$	#	System	Туре			EF	Ca	p	Use	SetPn	nt	Conservation	
	1	Electric				0.92	40 g	al	60 gal	120 de	g	None	
					SOL	AR HOT W	/ATER	SYSTE	М				
\checkmark	FSEC Cert #		oany Na	me		System Mod	del #	Co	llector M		Collector Area	Storage Volume	FEF
	None	None									ft²		
						DU	CTS						
./		77 22	Suppl		Ret	turn			Ai	ir	Per	cent	
V	#	Location	on R-V	/alue Area	Location	Area	Leakag	е Туре	Han	dler CF	M 25 Lea	kage QN	RLF
	1	Attic		6 454.4 ft	Interior	Oft²	Default I	ookogo	Inte	rior (De	efault) (Defa	ult) %	

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS:	PERMIT #:
lake city, fl,	

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.1.2	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	N1106.AB.1.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	N1106.AB.1.2	Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	N1106.AB.1.2	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N1112.ABC.3 Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

	TEMPERATURES													
Programa	able Thermo	stat: Y			С	eiling Fan	3:							
Cooling X Jan X Jan Venting X Jan		X Feb X Feb X Feb	X Mar X Apr X Mar X Apr X Mar X Apr		[X] May [X] Jun [X] May [X] Jun [X] May [X] Jun		[X] Jul [X] Aug [X] Jul [X] Aug [X] Jul [X] Aug		X Sep X Sep X Sep		X Oct X Oct X Oct	X Nov X Nov X Nov	[X] Dec [X] Dec [X] Dec	
Thermostat Schedule:		HERS 2006	6 Reference	9				Hours						
Schedule T	ype		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (W	D)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (W	EH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (W	D)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (W	EH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

				AF	PLIANC	ES & LI	GHTING	ì					
Appliance Schedule: H	ERS 2006	Reference	e				ı	Hours					
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Ceiling Fans (Summer) % Released: 100 Annual Use: 652 kW	AM PM	0.65 0.33	0.65 0.33 Peak	0.65 0.33 Value: 1	0.65 0.33 28 Watts	0.65 0.33	0.65 1	0.65 0.9	0.33 0.9	0.33 0.9	0.33 0.9	0.33 0.9	0.33 0.65
Clothes Washer % Released: 60 Annual Use: 105 kW	AM PM h/Yr	0.105 0.779	0.081 0.698 Peak	0.047 0.605 Value: 2	0.047 0.57 5 Watts	0.081 0.581	0.128 0.57	0.256 0.57	0.57 0.57	0.849 0.57	1 0.488	0.977 0.43	0.872 0.198
Dishwasher % Released: 60 Annual Use: 171 kW	AM PM h/Yr	0.139 0.377	0.05 0.396 Peak	0.028 0.335 Value: 5	0.024 0.323 2 Watts	0.029 0.344	0.09 0.448	0.169 0.791	0.303	0.541 0.8	0.594 0.597	0.502 0.383	0.443 0.281
Dryer % Released: 10 Annual Use: 0 kWh/	AM PM Yr	0.2 0.875	0.1 0.85 Peak	0.05 0.8 Value: 0	0.05 0.625 Watts	0.05 0.625	0.075 0.6	0.2 0.575	0.375 0.55	0.5 0.625	0.8 0.7	0.95 0.65	- 1 0.375
Lighting % Released: 90 Annual Use: 2273 kV	AM PM Vh/Yr	0.16 0.16	0.15 0.17 Peak	0.16 0.25 Value: 7	0.18 0.27 42 Watts	0.23 0.34	0.45 0.55	0.4 0.55	0.26 0.88	0.19 1	0.16 0.86	0.12 0.51	0.11 0.28
Miscellaneous % Released: 90 Annual Use: 3795 kV	AM PM Vh/Yr	0.48 0.52	0.47 0.5 Peak	0.47 0.5 Value: 6	0.47 0.5 96 Watts	0.47 0.59	0.47 0.73	0.64 0.79	0.71 0.99	0.67 1	0.61 0.96	0.55 0.77	0.53 0.55
Pool Pump % Released: 0 Annual Use: 0 kWh/	AM PM Yr	0 1	0 1 Peak	0 1 Value: 0	0 1 Watts	0	0	0	0	0	1 0	1	1 0
Range % Released: 100 Annual Use: 0 kWh/	AM PM Yr	0.057 0.457	0.057 0.343 Peak	0.057 0.286 Value: 0	0.057 0.4 Watts	0.057 0.571	0.114 1	0.171 0.857	0.286 0.429	0.343 0.286	0.343 0.229	0.343 0.171	0.4 0.114
Refrigeration % Released: 100 Annual Use: 1550 kV	AM PM Vh/Yr	0.85 0.88	0.78 0.85 Peak	0.75 0.85 Value: 2	0.73 0.83 11 Watts	0.73 0.88	0.73 0.95	0.75 1	0.75 0.98	0.8 0.95	0.8 0.93	0.8 0.9	0.8 0.85
Well Pump % Released: 0 Annual Use: 0 kWh/	AM PM	0.05 0.1	0.05 0.1 Peak	0.05 0.1 Value: 0	0.05 0.1 Watts	0.05 0.1	0.05 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1	0.1 0.1

						SOLAI	R HOT V	VATER						
Collector	Туре	-	llector Tilt Azim	Surf nuth Ar		s Coef.	Absorp. Prod.	Trans Corr.	Tank Volume	Tank U-Value	Tank Surf Are	Hea a Exch	at PV Eff Pumped	Pump
							DUCTS							
#	Location	Supply R-Value	Area	Location	Returr Are		mber	Leakage 1	Гуре Н	Air Handler (ercent eakage	QN	RLF
1	Attic	6 4	154.4 ft²	Interior	0 ft			Default Lea	akage	Interior (I	Default) (D	efault)		
						TEM	PERATI	JRES						
Progran	nable Thermo	ostat: Y			Ceil	ing Fans	s: Y							
Cooling Heating Venting	X Jan X Jan Jan	X Feb X Feb Feb	X Mar X Mar X Mar	X A	or []	May May May	[X] Jun [] Jun [] Jun	[X] Ju	[X] Au I Au	ig [X] S	Sep [] Sep [X]	Oct Oct Oct	X Nov X Nov X Nov	Dec Dec Dec
Thermost Schedule	at Schedule: Type	HERS 20	06 Referenc 1	e 2	3	4	5	6	Hours 7	8	9	10	11	12
Cooling (\	ND)	AM PM	78.5 80.5	78.5 80.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	80.5 78.5	80.5 78.5	80.5 78.5	80.5 78.5
Cooling (\	WEH)	AM PM	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5
Heating (\	ND)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (\	WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

4-5					PROJ	ECT						
Title: New Project Building Type: User Owner: mr. mezler # of Units: 1 Builder Name: wiser Permit Office: Jurisdiction: Family Type: Single-family New/Existing: New (From Plans) Comment:				Bedrooms: Bathrooms: Conditioned Area: Total Stories: Worst Case: Rotate Angle: Cross Ventilation: Whole House Fan:				Lo Bi Pi Si C	dress Type: ot # lock/SubDivisi latBook: treet: ounty: ity, State, Zip:	on: colur		ss
					CLIM	ATE			5-			
	Design Location		Tmy Site		Design 97.5 %	Temp 2.5 %		ign Temp Summer	Heating Degree Day		sign sture	Daily Temp
F	L, Gainesv	rille FL	_GAINESVILLE_RE	GIONAL_AP	32	92	70	75	1305.5	5	i1	Medium
				7	UTILITY	RATES						
Fuel		Unit	Utility Name					Monti	hly Fixed Cost		\$/Ur	nit
Electricity kWh Energyth Natural Gas Therm Energyth Fuel Oil Gallon Energyth		EnergyGauge Defa EnergyGauge Defa EnergyGauge Defa EnergyGauge Defa	ult ult				•	0 0 0		0.1126 1.72 1.1 1.4		
		λ - 1 (- 1 L - 1		5	SURROU	NDINGS						
			Shade	Trees					Adjacer	nt Building	ıs	
Ornt	Туре		Н	eight	Width	Distan	ce I	Exist	Height	Widt		Distance
N NE	_	Shade Tree	•	0 ft 12 ft	0 ft 40 ft	0 ft 30 ft			0 ft 0 ft	0 ft 0 ft		0 ft
SE S	None None			0 ft 0 ft 0 ft	0 ft 0 ft 0 ft	0 ft 0 ft			0 ft 0 ft 0 ft	0 ft 0 ft		0 ft 0 ft 0 ft
sw w	None	Shade Tree		0 ft 12 ft	0 ft 40 ft	0 ft 30 ft			0 ft 0 ft	0 ft 0 ft		0 ft
NW	None			0 ft	0 ft	0 ft			0 ft	0 ft		0 ft
					FLOC	ORS						
#	Floor Ty	ре	Perim	eter	R-Value		Area			Tile	Wood	Carpet
1	Slab-On-	-Grade Edge In	sulatio 223	ft	0	22	272 ft²			0.2	0	0.8
					ROO)F						
#	Туре		Materials		Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pit	ch
1	Hip		Composition sl	ningles 24	461 ft²	0 ft²	Medium	0.96	No	0	22.6	deg
					ATT	IC .						
#	Туре		Venti	ation	Vent Ra	tio (1 in)	Area	RB	s iro	cc		
	Full attic		Ver	5 1 25	30		2272 ft²	N	N	7	-	

							CEI	LING							
#	Ceili	ng Type				R-Value)		Area		Framing Fra	ction	Truss	з Туре	
1	Unde	er Attic (Ve	nted)			30		2	272 ft²		0.11		Wood		
		Wall	orientation t	pelow is as	entered.	Actual orie	WA ntation is	LLS modified b	y rotate a	angle showr	in "Project"	section abo	ove.		
#	Ornt	Adjacent To	Wall Typ	oe .		R	Cavity -Value	Width Ft I	n F	Height t In	Area	Sheathing R-Value	Framing Fraction	Sola	
1	N	Exterior	Frame -	Wood			13	120	4 9		1083 ft²		0.23	0.75	
							DO	ORS							
#		Ornt	Door 1	Гуре				Storms		U-Value	Width Ft	In Ft	leight In	Area	
1		N	Wood					None		0.46	4	7		28 ft²	
2		N	Wood					None		0.46	4	7		28 ft²	
3		N	Wood					None		0.46	4	7		28 ft²	
							WINE	oows							
										C	verhang				
#	Ornt	Frame	Pane		NFRC	U-Factor	SHGC	Storm	Area	Depth	Separation	Interior S	Shade	Screening	
1	N	Metal	Double (Ti		Yes	0.55	0.6	N	36 ft²	2 ft 0 i	n 0ft0in	Drapes/	blinds	None	
2	N ———	Metal	Double (Ti	nted)	Yes	0.55	0.6	N	255 ft²	2 ft 0 i	n OftOin	Drapes/	blinds	None	
						INFILT	RATIO	N & VEN	ITING						
Metho	d		SLA	CFM 50	ELA	EqLA	ACH	ACH 50	For Supp	ced Ventila		Run Time		n/Wind	
	Suess		0.00050	2980	163.6	307.6	0.385	9.84	0	,,	0		Suburban		
2001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.00000	2000	100.0	007.0		ASS	- 0		0	U	Suburban	7 Suburba	
	Mass	Гуре			Area		Thi	ckness	Fur	niture Frac	tion				
	No Add	ded Mass			0 ft²			0 ft		0.3					
						CC	OLING	SYSTE	M						
#	Systen	п Туре		Subtyp	e		Ef	ficiency	Cap	acity	Air Flow	SHR	Ductles	ss	
1	Centra	l Unit	2 301	Split			SE	ER: 13	58 k	Btu/hr	1740 cfm	0.75	False		
						HE	EATING	SYSTE	M						
#	Systen			Subtyp	е		Ef	ficiency	Cap	acity	Ductless				
1	Electric	c Heat Pur	пр	None				PF: 8.5		Btu/hr	False				
						НОТ	WATE	R SYST	EM						
#	Systen	п Туре			EF		Сар		Use		SetPnt		Credits		
1	Electric	C			0.92		40 gal		60 gal	1	20 deg		None		