Town of Fort White - No zoning fee

☑ Tad picked up 1-25-19
Back in 1-25-19

☑ Greg Hinds - not on file

Columbia County New Building Permit Application

For Office Use Only Application # 1901-89 Date Received 1-24-19 By LH Permit # 37762

Zoning Official Fort White Date _____ Flood Zone fw Land Use fw Zoning fw

FEMA Map # _____ Elevation _____ MFE _____ River _____ Plans Examiner T.C. Date 1-31-19

Comments _____

☑ NOC ☑ EH ☑ Deed or PA ☑ Site Plan (FW) ☑ State Road Info ☑ Well letter (Ft White Utility) ☒ 911 Sheet ☐ Parent Parcel # _____

☐ Dev Permit # _____ ☐ In Floodway ☑ Letter of Auth. from Contractor ☑ F W Comp. letter

☐ Owner Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ☑ App Fee Paid ☑ Sub VF Form

Septic Permit No. 18-0922 OR City Water ☐ Fax 386.462.1780

Applicant (Who will sign/pickup the permit) Jim Cottingham Phone 352.665.8177

Address PO Box 1417 / Alachua, FL 32616

Owners Name Ronya Properties LLC Phone 813.684.0622 x 302

911 Address 7788 SW US Highway 27, Fort White, FL 32038

Contractors Name James M. Cottingham Phone 386.462.1982

Address PO Box 1417 / Alachua, FL 32616

Contractor Email jmc411@gmail.com ***Include to get updates on this job.

Fee Simple Owner Name & Address 1326 E. Lumsden Rd. / Brandon, FL 33511

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Conn & Associates / 1960-C Buford Blvd / Tallahassee, FL 32308

Mortgage Lenders Name & Address N/A

Circle the correct power company ☐ FL Power & Light ☐ Clay Elec. ☐ Suwannee Valley Elec. ☑ Duke Energy

Property ID Number 00-00-00-14425-000 Estimated Construction Cost $328,000

Subdivision Name _____ Lot ____ Block ____ Unit ____ Phase ____

Driving Directions from a Major Road Go 1 block north of intersection of US 27 and 47. Job is on the left beside Subway

Construction of Hungry Howies X Commercial OR ____ Residential

Proposed Use/Occupancy Pizza Restaurant Number of Existing Dwellings on Property ____

Is the Building Fire Sprinkled? no If Yes, blueprints included yes Or Explain _____

Circle Proposed ☐ Culvert Permit or ☐ Culvert Waiver or ☑ D.O.T. Permit or ☐ Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 63' Side 14' Side 49' Rear 76'-6

Number of Stories 1 Heated Floor Area 1080 Total Floor Area 1176 Acreage 0.4

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) See letter from FT. White

H-Emailed Jim 2-13-19

$ 2061.76

Columbia County Building Permit Application

CODE: Florida Building Code 2014 and the 2011 National Electrical Code.

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.

TIME LIMITATIONS 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 pursued in good faith or a permit has been issued.

TIME LIMITATIONS OF PERMITS: 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 CONTRACTOR AND AGENT: ***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.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT 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. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

Talal Kazbour
Print Owners Name

Owners Signature

****Property owners must sign here before any permit will be issued.**

****If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.**

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 Signature

Contractor's License Number CGC022005
Columbia County
Competency Card Number

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 22 **day of** January **20** 19.

Personally known ✓ **or Produced Identification**

State of Florida Notary Signature (For the Contractor)

SEAL:

DANNA MURRAY
Notary Public – State of Florida
Commission # GG 147180
My Comm. Expires Jan 24, 2022
Bonded through National Notary Assn.

Florida Department of State

Sunbiz.org

Department of State / Division of Corporations / Search Records / Detail By Document Number /

Detail by Entity Name

Florida Limited Liability Company

RONYA PROPERTIES, LLC

Filing Information

Document Number	L05000020779
FEI/EIN Number	59-3509070
Date Filed	03/01/2005
Effective Date	03/01/2005
State	FL
Status	ACTIVE

Principal Address

1326 E. LUMSDEN ROAD
BRANDON, FL 33511

Mailing Address

1326 E. LUMSDEN ROAD
BRANDON, FL 33511

Registered Agent Name & Address

KAZBOUR, TALAL
1326 EAST LUMSDEN ROAD
BRANDON, FL 33511

Name Changed: 04/12/2012

Address Changed: 04/12/2012

Authorized Person(s) Detail

Name & Address

Title MGR

KAZBOUR, TALAL A
1326 E. LUMSDEN ROAD
BRANDON, FL 33511

Annual Reports

Report Year	Filed Date
2016	02/01/2016
2017	03/03/2017

Columbia County Property Appraiser

Jeff Hampton

2017 Tax Roll Year
updated: 8/1/2018

Parcel: << 00-00-00-14425-000 >>

Owner & Property Info

Result: 1 of 1

Owner	RONYA PROPERTIES LLC 1326 E LUMSDEN RD BRANDON, FL 33511		
Site	119 WALKERS WAY, FORT WHITE		
Description*	FORT WHITE: 90 FT E & W BY 120 FT N & S IN NW COR OF BLOCK 55 ALSO 89 FT E & W BY 90 FT N & S IN SW COR SAID BLOCK 55. 460-371, 781-625, 935-816, WD 1189-2554, WD 1353-2604,		
Area	0.431 AC	S/T/R	33-6S-16
Use Code**	SINGLE FAM (000100)	Tax District	4

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.
**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Aerial Viewer | Pictometery | Google Maps

Property & Assessment Values

2017 Certified Values		2018 Working Values	
Mkt Land (1)	$47,965	Mkt Land (1)	$56,430
Ag Land (0)	$0	Ag Land (0)	$0
Building (1)	$6,155	Building (1)	$17,037
XFOB (1)	$1,200	XFOB (1)	$200
Just	$55,320	Just	$73,667
Class	$0	Class	$0
Appraised	$55,320	Appraised	$73,667
SOH Cap [?]	$0	SOH Cap [?]	$0
Assessed	$55,320	Assessed	$73,667
Exempt	$0	Exempt	$0
Total Taxable	county:$55,320 city:$55,320 other:$55,320 school:$55,320	Total Taxable	county:$60,196 city:$60,196 other:$60,196 school:$73,667

Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
2/12/2018	$125,000	1353/2604	WD	I	Q	01
3/2/2010	$85,100	1189/2554	WD	I	Q	01
9/7/2001	$25,000	935/0816	WD	I	Q	
9/30/1991	$0	781/0625	WD	I	U	02 (Multi-Parcel Sale) - show
1/5/1981	$0	460/0371	LE	I	U	01

Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	1	SINGLE FAM (000100)	1935	928	1056	$17,037

*Bldg Desc determinations are used by the Property Appraisers office solely for the purpose of determining a property's Just Value for ad valorem tax purposes and should not be used for any other purpose.

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0080	DECKING	2017	$200.00	1.000	0 x 0 x 0	(000.00)

Land Breakdown

Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
000100	SFR (MKT)	18,810.000 SF - (0.431 AC)	1.00/1.00 1.00/1.00	$3	$56,430

Search Result: 1 of 1

CERTIFICATE OF COMPLIANCE & REQUEST FOR ISSUANCE OF BUILDING PERMIT

The undersigned hereby certify the following property is in compliance with the Town of Fort White's Comprehensive Plan and Land Development Regulations for the stated development purposes:

FILE No. **19-001**

OWNER'S NAME: Hungry Howies

ADDRESS: 119 WALKERS WAY, FORT WHITE

PARCEL: 0-00-00-14425-0

PROPERTY DESCRIPTION: FORT WHITE: 90 FT E & W BY 120 FT N & S IN NW COR OF BLOCK 55 ALSO 89 FT E & W BY 90 FT N & S IN SW COR SAID BLOCK 55. 460-371, 781-625, 935-816, WD 1189-2554, WD 1353-2604,

DEVELOPMENT: Pizza and Subs

You are hereby authorized to issue the appropriate permits

Please fax a copy of the Applicants permit to 386-497-4946

DATE January 25, 2019 AUTHORIZED BY: Katye Hughes, Town Clerk

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1961-89 JOB NAME Hungry Howies

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. 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 general contractors permit.

NOTE: *It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.*
Use website to confirm licenses: http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx

NOTE: If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.

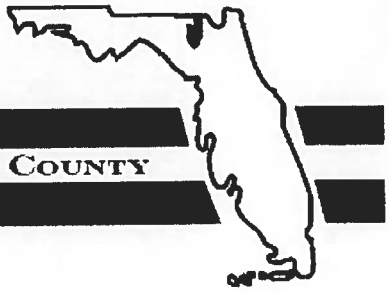
Violations will result in stop work orders and/or fines.

ELECTRICAL ☑ CC# 1529	Print Name Dennis Holt Signature Dennis Holt Company Name: C&H Electric, Inc. License #: EC0002675 Phone #: 352.538.5363		Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
MECHANICAL/ A/C A ☑ CC#	Print Name Greg Hinds Signature Greg Hinds Company Name: Hinds Heating & Cooling, Inc. License #: CAC1814954 Phone #: 863.528.1796		Need ☑ Lic ☑ Liab ☐ W/C ☑ EX ☐ DE
PLUMBING/ GAS ☑ CC# 434	Print Name John Church Signature: John Church Company Name: Church's Plumbing , Inc. License #: CFC057914 Phone #: 352.372.4678		Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
ROOFING ☑ CC# 392	Print Name Fausten Gallegos Signature Fausten Gallegos Company Name: F. n. F. Enterprises, Inc. License #: CCC1327482 Phone #: 352.615.1519		Need ☐ Lic ☐ Liab ☑ W/C ☐ EX ☐ DE
SHEET METAL ☑ CC# 392	Print Name Fausten Gallegos Signature Fausten Gallegos Company Name: F. n. F. Enterprises, inc. License #: CCC1327482 Phone #: 352.615.1519		Need ☐ Lic ☐ Liab ☑ W/C ☐ EX ☐ DE
FIRE SYSTEM/ SPRINKLER ☐ CC#	Print Name Signature Company Name: License#: Phone #:		Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
SOLAR ☐ CC#	Print Name Signature Company Name: License #: Phone #:		Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE
STATE SPECIALTY ☐ CC#	Print Name Signature Company Name: License #: Phone #:		Need ☐ Lic ☐ Liab ☐ W/C ☐ EX ☐ DE

Ref: F.S. 440.103; ORD. 2016-30

District No. 1 - Ronald Williams
District No. 2 - Rocky Ford
District No. 3 - Bucky Nash
District No. 4 - Toby Witt
District No. 5 - Tim Murphy

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY



Address Assignment and Maintenance Document

To maintain the county wide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for addressing and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Services Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County

Date/Time Issued:	**1/31/2019 3:29:06 PM**
Address:	**7788 SW US HIGHWAY 27**
City:	**FORT WHITE**
State:	**FL**
Zip Code	**32038**
Parcel ID	**14425-000**

REMARKS: Address for proposed structure on parcel.

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION AND ACCESS INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION AND/OR ACCESS INFORMATION BE FOUND TO BE IN ERROR OR CHANGED, THIS ADDRESS IS SUBJECT TO CHANGE.

Address Issued By: **Signed:/ Matt Crews**

Columbia County GIS/911 Addressing Coordinator

COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT

263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125
Email: gis@columbiacountyfla.com

DRIVEWAY CONNECTION PERMIT FOR ALL CATEGORIES

PART 1: PERMIT INFORMATION

APPLICATION NUMBER: 2018-A-292-014

Permit Category: B - 21 to 600 VTPD Access Classification:

Project: Hungry Howies Ft White SR-20

Permittee: TORI HUMPHRIES

Section/Mile Post: / State Road:

Section/Mile Post: / State Road:

PART 2: PERMITTEE INFORMATION

Permittee Name: TORI HUMPHRIES

Permittee Mailing Address: PO Box 3823

City, State, Zip: Lake City, Florida 32056

Telephone: (386) 752-4675 ext.

Engineer/Consultant/or Project Manager:

Engineer responsible for construction inspection:
NAME P E #

Mailing Address:

City, State, Zip:

Telephone: FAX, Mobile Phone, etc. Fax: / Mobile:

PART 3: PERMIT APPROVAL

The above application has been reviewed and is hereby approved subject to all Provisions as attached.

Permit Number: 2018-A-292-014
Department of Transportation

Signature: Troy Register Title: MAINTENANCE MANAGER/PERMITS

Department Representative's Printed Name Troy Register

Temporary Permit ☐ YES ☑ NO (If temporary, this permit is only valid for 6 months)

Special provisions attached ☐ YES ☑ NO

Date of Issuance: 1/29/2019

If this is a normal (non-temporary) permit it authorizes construction for one year from the date of issuance. This can only be extended by the Department as specified in 14-96.007(6).

See following pages for General and Special Provisions

PART 4: GENERAL PROVISIONS

1. Notify the Department of Transportation Maintenance Office at least 48 hours in advance of starting proposed work.
   Phone: 3869617153 , Attention: Troy Register
2. A copy of the approved permit must be displayed in a prominent location in the immediate vicinity of the connection construction.
3. Comply with Rule 14-96.008(1), F.A.C., Disruption of Traffic.
4. Comply with Rule 14-96.008(7), F.A.C., on Utility Notification Requirements.
5. All work performed in the Department's right of way shall be done in accordance with the most current Department standards, specifications and the permit provisions.
6. The permittee shall not commence use of the connection prior to a final inspection and acceptance by the Department.
7. Comply with Rule 14-96.003(3)(a), F.A.C., Cost of Construction.
8. If a Significant Change of the permittee's land use, as defined in Section 335.182, Florida Statutes, occurs, the Permittee must contact the Department.
9. Medians may be added and median openings may be changed by the Department as part of a Construction Project or Safety Project. The provision for a median might change the operation of the connection to be for right turns only.
10. All conditions in NOTICE OF INTENT WILL APPLY unless specifically changed by the Department.
11. All approved connection(s) and turning movements are subject to the Department's continuing authority to modify such connection(s) or turning movements in order to protect safety and traffic operations on the state highway or State Highway System.
12. **Transportation Control Features and Devices in the State Right of Way.** Transportation control features and devices in the Department's right of way, including, but not limited to, traffic signals, medians, median openings, or any other transportation control features or devices in the state right of way, are operational and safety characteristics of the State Highway and are not means of access. The Department may install, remove or modify any present or future transportation control feature or device in the state right of way to make changes to promote safety in the right of way or efficient traffic operations on the highway.
13. The Permittee for him/herself, his/her heirs, his/her assigns and successors in interest, binds and is bound and obligated to save and hold the State of Florida, and the Department, its agents and employees harmless from any and all damages, claims, expense, or injuries arising out of any act, neglect, or omission by the applicant, his/her heirs, assigns and successors in interest that may occur by reason of this facility design, construction, maintenance, or continuing existence of the connection facility,except that the applicant shall not be liable under this provision for damages arising from the sole negligence of the Department.
14. The Permittee shall be responsible for determining and notify all other users of the right of way.
15. Starting work on the State Right of Way means that I am accepting all conditions on the Permit.

PART 5: SPECIAL PROVISIONS

NON-CONFORMING CONNECTIONS: ☐ YES ☐ NO

If this is a non-conforming connection permit, as defined in Rule Chapters 14-96 and 14-97, then the following shall be a part of this permit.

1. The non-conforming connection(s) described in this permit is (are) not permitted for traffic volumes exceeding the Permit Category on page 1 of this permit, or as specified in "Other Special Provisions" below.

2. All non-conforming connections will be subject to closure or relocation when reasonable access becomes available in the future.

OTHER SPECIAL PROVISIONS:

PART 6: APPEAL PROCEDURES

You may petition for an administrative hearing pursuant to sections 120.569 and 120.57, Florida Statutes. If you dispute the facts stated in the foregoing Notice of Intended Department Action (hereinafter Notice), you may petition for a formal administrative hearing pursuant to section 120.57 (1), Florida Statutes. If you agree with the facts stated in the Notice, you may petition for an informal administrative hearing pursuant to section 120.57(2), Florida Statutes. You must file the petition with:

Clerk of Agency Proceedings
Department of Transportation
Haydon Burns Building
605 Suwannee Street, M.S. 58
Tallahassee, Florida 32399-0458

The petition for an administrative hearing must conform to the requirements of Rule 28-106.201(2) or Rule 28-106.301(2), Florida Administrative Code, and be filed with the Clerk of Agency Proceedings by 5:00 p.m. no later than 21 days after you received the Notice. The petition must include a copy of the Notice, be legible, on 8 1/2 by 11 inch white paper, and contain:

1. Your name, address, telephone number, any Department of Transportation identifying number on the Notice, if known, the name and identification number of each agency affected, if known, and the name, address, and telephone number of your representative, if any, which shall be the address for service purposes during the course of the proceeding.
2. An explanation of how your substantial interests will be affected by the action described in the Notice;
3. A statement of when and how you received the Notice;
4. A statement of all disputed issues of material fact. If there are none, you must so indicate;
5. A concise statement of the ultimate facts alleged, including the specific facts you contend warrant reversal or modification of the agency's proposed action, as well as an explanation of how the alleged facts relate to the specific rules and statutes you contend require reversal or modification of the agency's proposed action;
6. A statement of the relief sought, stating precisely the desired action you wish the agency to take in respect to the agency's proposed action.

If there are disputed issues of material fact a formal hearing will be held, where you may present evidence and argument on all issues involved and conduct cross-examination. If there are no disputed issues of material fact an informal hearing will be held, where you may present evidence or a written statement for consideration by the Department.

Mediation, pursuant to section 120.573, Florida Statutes, may be available if agreed to by all parties, and on such terms as may be agreed upon by all parties. The right to an adminstrative hearing is not affected when mediation does not result in a settlement.

Your petition for an administrative hearing shall be dismissed if it is not in substantial compliance with the above requirements of Rule 28-106.201(2) or Rule 28-106.301(2), Florida Administrative Code. If you fail to timely file your petition in accordance with the above requirements, you will have waived your right to have the intended action reviewed pursuant to chapter 120, Florida Statutes, and the action set forth in the Notice shall be conclusive and final.

FW

CR # 10-6746

PERMIT NO. 18-8922
DATE PAID: 11/2/18
FEE PAID: 310.00
RECEIPT #: 1384926

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

APPLICATION FOR:

[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: KAZBOR HH PIZZA LLC / TOM KAZBOR (KAZBOR / Kazbour)

AGENT: NORTH FLORIDA PROFESSIONAL SERVICES TELEPHONE: (386) 752-4675

MAILING ADDRESS: PO BOX 3823 LAKE CITY FL 32056

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: N/A BLOCK: N/A SUBDIVISION: METES AND BOUNDS PLATTED: _____

PROPERTY ID #: 00-00-00-14425-000 ZONING: COM I/M OR EQUIVALENT: [NO]

PROPERTY SIZE: 0.431 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [ ]<=2000GPD [X]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [NO] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 119 WALKER WAY FT. WHITE

DIRECTIONS TO PROPERTY: SR 47 SOUTH TO FT. WHITE, TURN RIGHT ON SR 27. SITE ON LEFT JUST PAST SUBWAY.

BUILDING INFORMATION [ ] RESIDENTIAL [X] COMMERCIAL

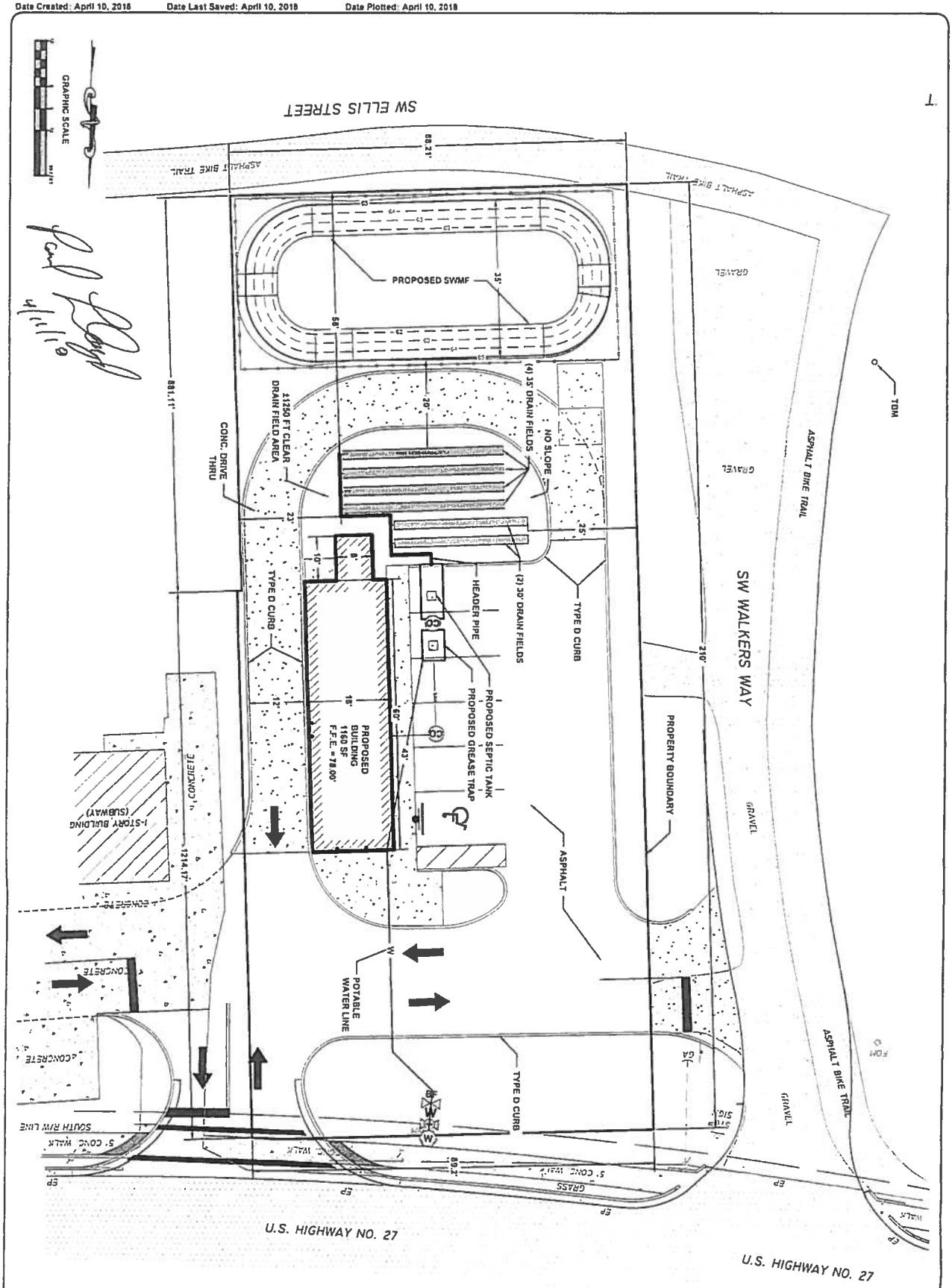
Unit No.	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	PIZZA SHOP	0	1,080	24 SEATS, 3 EMPLOYEES PER SHIFT.
2				OPEN 16 HOURS PER DAY. (4 MG 12/18/18)
3				24 X 20 GDP PER SEAT = 480 GDP
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: _____ DATE: Nov -14-18

DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

File Location: X:\2017\L170821KAZ\H.CADD\cKAZdsnSS\4 SITE
Date Created: April 10, 2018 Date Last Saved: April 10, 2018 Date Plotted: April 10, 2018



JOB NUMBER: 170821KAZ
DESIGNED BY: TH | DRAFTED BY: LH | CHECKED BY: GB
ENGINEER OF RECORD GREGORY D. BAILEY P.E. NO. 43256

REVISIONS

SITE PLAN
HUNGRY HOWIE'S
FORT WHITE, FLORIDA

North Florida Professional Services, Inc.
P.O. BOX 3323 Lake City, FL 32025 Ph. 386-752-4675 Fax. 386-752-4674
P.O. BOX 102998 Tallahassee, FL 32310 Ph. 877-335-1525 Eng. Lic.29911

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 18-0922

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

NORTH

CR# 10-6746

SEE ATTACHED

1 INCH = 40 FEET

Site Plan Submitted By Paul Riley Date 4/11/18

Plan Approved X Not Approved ___ Date ___

By Sallie Ford Env Health Director CPHU

Notes: 1.15.19

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

PERMIT #: 12-SC-1903758
APPLICATION #: AP1384376
DATE PAID: 11-21-18
FEE PAID: $10.00
RECEIPT #:
DOCUMENT #: PR1197294

CONSTRUCTION PERMIT FOR: OSTDS New

APPLICANT: KAZBOUR**18-0922 HH PIZZA

PROPERTY ADDRESS: 119 WALKER Way Fort White, FL 32038

LOT: _____ BLOCK: _____ SUBDIVISION: _____

PROPERTY ID #: 14425-000 [SECTION, TOWNSHIP, RANGE, PARCEL NUMBER] [OR TAX ID NUMBER]

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF SECTION 381.0065, F.S., AND CHAPTER 64E-6, F.A.C. DEPARTMENT APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS, WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID. ISSUANCE OF THIS PERMIT DOES NOT EXEMPT THE APPLICANT FROM COMPLIANCE WITH OTHER FEDERAL, STATE, OR LOCAL PERMITTING REQUIRED FOR DEVELOPMENT OF THIS PROPERTY.

SYSTEM DESIGN AND SPECIFICATIONS

T [1,200] GALLONS / GPD New Multichambered Septic CAPACITY
A [ ] GALLONS / GPD _____ CAPACITY
N [750] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK:1250 GALLONS]
K [ ] GALLONS DOSING TANK CAPACITY [ ]GALLONS @[ ]DOSES PER 24 HRS #Pumps [ ]

D [600] SQUARE FEET Drainfield SYSTEM
R [ ] SQUARE FEET _____ SYSTEM
A TYPE SYSTEM: [x] STANDARD [ ] FILLED [ ] MOUND [ ] _____
I CONFIGURATION: [x] TRENCH [ ] BED [ ] _____
N
F LOCATION OF BENCHMARK: Nail in 14" Oak tree W across street
I ELEVATION OF PROPOSED SYSTEM SITE [24.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
E BOTTOM OF DRAINFIELD TO BE [54.00] [INCHES / FT] [ABOVE / BELOW] BENCHMARK/REFERENCE POINT
L
D FILL REQUIRED: [0.00] INCHES EXCAVATION REQUIRED: [0.00] INCHES

O Per private evaluator: Drainfield to be installed with arc-24 panels.
T Drainfield shall consist of two (2) lines, thirty (30) feet in length with six (6) panels each. There shall also be four (4) lines,
H thirtyfive (35) feet in length with seven (7) panels each.
See site plan for layout configuration. This will give a total of forty (40) panels to equal 600sqft of drainfield.
E ALSO NOTED: EXCAVATE ALL MIXED FILL AND REPLACE WITH FINE SAND. EVALUATOR NOTES A DEPTH OF 29"
OF MIXED FILL.
R Commercial operating permit required before final approval.

SPECIFICATIONS BY: Paul Lloyd TITLE: Private Soil Evaluator

APPROVED BY: Sallie Ford TITLE: Environmental Health Director Columbia CHD
Sallie A Ford

DATE ISSUED: 01/15/2019 EXPIRATION DATE: 07/15/2020

DH 4016, 08/09 (Obsoletes all previous editions which may not be used)
Incorporated: 64E-6.003, FAC

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

00-00-00-14425-000

Clerk's Office Stamp

Inst: 201912002003 Date: 01/24/2019 Time: 3:23PM
Page 1 of 1 B: 1377 P: 312, P.DeWitt Cason, Clerk of Court
Columbia, County, By: KV
Deputy Clerk

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this **NOTICE OF COMMENCEMENT.**

1. Description of property *(legal description)*:
   a) Street *(job)* Address: 119 Walkers Way, Ft. White, FL 32038
2. General description of improvements: Construct new Hungry Howies building and site improvements
3. Owner Information or Lessee information if the Lessee contracted for the improvements:
   a) Name and address: Ronya Properties, LLC / 1326 E. Lumsden Road / Brandon, FL 33511
   b) Name and address of fee simple titleholder (if other than owner)
   c) Interest in property
4. Contractor Information
   a) Name and address: North Florida General Contracting, Inc. / PO Box 1417 / Alachua, FL 32616
   b) Telephone No.: 386.462.1982
5. Surety Information (if applicable, a copy of the payment bond is attached):
   a) Name and address: N/A
   b) Amount of Bond:
   c) Telephone No.:
6. Lender
   a) Name and address: N/A
   b) Phone No.
7. Person 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:
   a) Name and address:
   b) Telephone No.:
8. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:
   a) Name: OF
   b) Telephone No.:
9. Expiration date of Notice of Commencement **(the expiration date will be 1 year from the date of recording unless a different date is specified)**:

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR 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 YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. _____
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager

Talal Kazbour, Managing Member
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 12 day of October, 2018, by:

Talal Kazbour as Managing Member for Ronya Properties LLC.
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)

Personally Known ✓ OR Produced Identification ____ Type _____

Notary Signature Kim Rhoads

Notary Stamp or Seal:

NOTARY PUBLIC STATE OF FLORIDA

KIM RHOADS
MY COMMISSION # FF 141648
EXPIRES: November 14, 2018
Bonded Thru Budget Notary Services

COLUMBIA COUNTY FIRE RESCUE
Life Safety Services
P.O. BOX 1529 Lake City, Florida 32056
Office (386) 754-2120 Fax (386) 754-7064

Fire Inspector/PIO
Lt. Joshua Wehinger

27 April 2017

TO: Troy Crews
Columbia County Building and Zoning

FROM: Joshua Wehinger
Florida State Fire Inspector #180649

RE: Hungry Howies Pizza application # 1901-89

A plan review was performed on the proposed Hungry Howies Pizza, located at 119 Walkers Way Fort White, Florida 32038. This Building was classified under Chapter 38 New Business, of the Florida Fire Prevention Code, 2012 Fifth Edition. I recommend Approval of the building with the following conditions;
Pending:

- Light Weight Truss Marking
  - Florida Statute, Section 633.027, (2008) requires the owner of any commercial, industrial or multiunit residential structure of three units or more constructed of light-frame trusses, to install a symbol adopted by rule of the State Fire Marshal's Office. This rule establishes the dimensions, color, and location of the symbol to be applied to every commercial, industrial and multiunit residential structure of three units or more constructed of light-frame trusses.

- Access Box(es)
  - NFPA 1:18.2.2.1 states, The AHJ shall have the authority to require an access box(es) to be installed in an accessible location where access to or within a structure or area is difficult because of security. The access box(es) shall be of an approved type listed in accordance with UL1037.
  - Knox Boxes are now a requirement for all new construction.

- Building Address
    - New and existing buildings shall have approved **address numbers** placed in a position to be plainly legible and visible from the street or road, in contrast with their background. At the minimum, numbers shall be not less than 3 inches in height for residential buildings and at least 6 inches in height for all other buildings. *NFPA 1:10.13.1.1 & NFPA 1:10.13.1.2*

- Electrical Disconnect

    - NFPA 1:11.1.7 states, "means shall be provided for the fire department to disconnect the electrical service to a building, structure or facility when the electrical is covered under the scope of NFPA70."
    - NFPA 101:7.2.1.5.1 states, "Doors shall be arranged to be opened readily from egress side whenever building is occupied."

    - Fire Extinguisher's- 1 10 lb. ABC extinguisher per exit door, 1- 20 lb. Type K extinguisher located in kitchen area.

Sincerely,

Joshua Wehinger

Columbia County
BUILDING DEPARTMENT

Revised 7/1/15

COMMERCIAL MINIMUM PLAN CHECKLIST

MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR THE 2014 FLORIDA BUILDING CODE ,FLORIDA PLUMBING CODE,FLORIDA MECHINICAL CODE,FLORIDA FUEL AND GAS CODE 2014 EFFECTIVE 1 JULY 2015 AND 2011 NATIONAL ELECTRICAL

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES. ALL PLANS OR DRAWING SHALL PROVIDED 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 DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES

	GENERAL REQUIREMENTS:	Items to Include-Each Box shall be Circled as Applicable			
1	All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void.	YES	NO	N/A	Yes
2	If the design professional is an architect or engineer legally registered under the laws of this state regulating the practice of architecture as provided for in Chapter 481, Florida Statutes, Part I, or engineering as provided for in Chapter 471, Florida Statutes, then he or she shall affix his or her official seal to said drawings, specifications and accompanying data, as required by Florida Statute.	YES	NO	N/A	Yes
3	The design professional signature shall be affixed to the plans	YES	NO	N/A	
4	Two (2) complete sets of plans with the architecture or engineer signature and the date the affix embossed official seal was placed on the plans	YES	NO	N/A	Yes

Two (2) complete sets of plans containing the following information:

	Building Site Plan Requirements	Items to Include-Each Box shall be Circled as Applicable			
4	Parking, including provision Florida Building Code Accessibility Code	Yes	No	N/A	Yes
5	Fire access, showing all drive way which will be accessible for emergency vehicles	Yes	No	N/A	Yes
6	Driving/turning radius of parking lots	Yes	No	N/A	Yes
7	Vehicle loading include truck dock loading or rail site loading	Yes	No	N/A	N/A
8	Nearest or number of onsite Fire hydrant/water supply/post indicator valve (PIV)	Yes	No	N/A	Yes
9	Set back of all existing or proposed structures from each structure and property boundaries, Show all	Yes	No	N/A	Yes

	separation including assumed property lines			
10	Location of specific tanks(above or under grown ,water lines and sewer lines and septic tank and drain fields	Yes	No	N/A Yes
11	All structures exterior views include finished floor elevation	Yes	No	N/A Yes
12	Total height of structure(s) form established grade	Yes	No	N/A Yes
	Review required by the Columbia County Fire Department Items 13Th 43			

Occupancy group use circle all uses:	Group A	Group B	Group E	Group F	Group H	Group I	Group M	Group R	Group S	Group U D	

13	Special occupancy requirements.	Yes	No	N/A N/A
14	Incidental use areas (total square footage for each room of use area)	Yes	No	N/A N/A
15	Mixed occupancies	Yes	No	N/A N/A
16	REQUIRED SEPARATION OF OCCUPANCIES IN HOURS FBC TABLE 707.3.10	Yes	No	N/A N/A

Minimum type of permitted construction by code for occupancy use circle the construction type FBC 602							
17	Type I (FBC:602.2)	Type II (FBC:602.2)	Type III (FBC:602.3)	Type IV (FBC:602.4)	Type V (FBC:602.5)	Type V	

	Fire-resistant construction requirements shall be shown, include the following components				
18	Fire-resistant separations	Yes	No	N/A	N/A
19	Fire-resistant protection for type of construction	Yes	No	N/A	N/A
20	Protection of openings and penetrations of rated walls	Yes	No	N/A	N/A
21	Protection of corridors and penetrations of rated walls	Yes	No	N/A	N/A
22	Fire blocking and draftstopping and calculated fire resistance	Yes	No	N/A	Yes
	Fire suppression systems shall be shown include:				
23	Early warning smoke evacuation systems Schematic fire sprinklers Standpipes	Yes	No	N/A	N/A
24	Standpipes	Yes	No	N/A	N/A
25	Pre-engineered systems	Yes	No	N/A	Yes
26	Riser diagram	Yes	No	N/A	N/A
	Life safety systems shall be shown include the following requirements:				
27	Occupant load and egress capacities	Yes	No	N/A	Yes
28	Early warning	Yes	No	N/A	N/A
29	Smoke control	Yes	No	N/A	N/A
30	Stair pressurization	Yes	No	N/A	N/A
31	Systems schematic	Yes	No	N/A	N/A
	Occupancy load/egress requirements shall be shown include:				
32	Occupancy load	Yes	No	N/A	Yes
33	Gross occupancy load	Yes	No	N/A	Yes
34	Net occupancy load	Yes	No	N/A	Yes
35	Means of egress	Yes	No	N/A	Yes
36	Exit access	Yes	No	N/A	Yes
37	Exit discharge	Yes	No	N/A	Yes
38	Stairs construction/geometry and protection	Yes	No	N/A	N/A
39	Doors	Yes	No	N/A	Yes
40	Emergency lighting and exit signs	Yes	No	N/A	Yes
41	Specific occupancy requirements	Yes	No	N/A	N/A
42	Construction requirements	Yes	No	N/A	Yes
43	Horizontal exits/exit passageways	Yes	No	N/A	Yes

		Items to Include- Each Box shall be Circled as Applicable			
	Structural requirements shall be shown include:				
44	Soil conditions/analysis	Yes	No	N/A	Yes
45	Termite protection	Yes	No	N/A	Yes
46	Design loads	Yes	No	N/A	Yes
47	Wind requirements	Yes	No	N/A	Yes
48	Building envelope	Yes	No	N/A	Yes

49	Structural calculations (if required)	Yes	No	N/A N/A
50	Foundation **For** structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	Yes	No	N/A Yes
51	Wall systems	Yes	No	N/A Yes
52	Floor systems	Yes	No	N/A Yes
53	Roof systems	Yes	No	N/A Yes
54	Threshold inspection plan	Yes	No	N/A N/A
55	Stair systems	Yes	No	N/A N/A
	Materials shall be shown include the following			
56	Wood	Yes	No	N/A Yes
57	Steel	Yes	No	N/A N/A
58	Aluminum	Yes	No	N/A N/A
59	Concrete	Yes	No	N/A Yes
60	Plastic	Yes	No	N/A N/A
61	Glass	Yes	No	N/A Yes
62	Masonry	Yes	No	N/A Yes
63	Gypsum board and plaster	Yes	No	N/A Yes
64	Insulating (mechanical)	Yes	No	N/A Yes
65	Roofing	Yes	No	N/A Yes
66	Insulation	Yes	No	N/A Yes
	Accessibility requirements shall be shown include the following			
67	Site requirements	Yes	No	N/A Yes
68	Accessible route	Yes	No	N/A Yes
69	Vertical accessibility	Yes	No	N/A N/A
70	Toilet and bathing facilities	Yes	No	N/A N/A
71	Drinking fountains	Yes	No	N/A N/A
72	Equipment	Yes	No	N/A N/A
73	Special occupancy requirements	Yes	No	N/A N/A
74	Fair housing requirements	Yes	No	N/A N/A
	Interior requirements shall include the following			
75	**Review required by the Columbia County Fire Department Items 75Th 80** Interior finishes (flame spread/smoke development)	Yes	No	N/A Yes
76	Light and ventilation	Yes	No	N/A Yes
77	Sanitation	Yes	No	N/A Yes
	Special systems			
78	Elevators	Yes	No	N/A N/A
79	Escalators	Yes	No	N/A N/A
80	Lifts	Yes	No	N/A N/A
	Swimming pools			
81	Barrier requirements	Yes	No	N/A N/A
82	Spas and Wading pools	Yes	No	N/A N/A
83	Access required per Florida Building Code 454.1.2.5	Yes	No	N/A N/A

Items to Include-Each Box shall be Circled as Applicable				
	Electrical			
84	Wiring	Yes	No	N/A Yes
85	Services **For** structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	Yes	No	N/A Yes
86	Feeders and branch circuits	Yes	No	N/A Yes
87	Overcurrent protection	Yes	No	N/A Yes
88	Grounding	Yes	No	N/A Yes
89	Wiring methods and materials	Yes	No	N/A Yes

90	GFCIs	Yes	No	N/A	Yes
91	Equipment	Yes	No	N/A	Yes
92	Special occupancies	Yes	No	N/A	N/A
93	Emergency systems	Yes	No	N/A	N/A
94	Communication systems	Yes	No	N/A	N/A
95	Low voltage	Yes	No	N/A	N/A
96	Load calculations	Yes	No	N/A	Yes
	Plumbing				
97	Minimum plumbing facilities	Yes	No	N/A	Yes
98	Fixture requirements	Yes	No	N/A	Yes
99	Water supply piping	Yes	No	N/A	Yes
100	Sanitary drainage	Yes	No	N/A	Yes
101	Water heaters	Yes	No	N/A	Yes
102	Vents	Yes	No	N/A	Yes
103	Roof drainage	Yes	No	N/A	Yes
104	Back flow prevention	Yes	No	N/A	Yes
105	Irrigation	Yes	No	N/A	Yes
106	Location of water supply line	Yes	No	N/A	Yes
107	Grease traps	Yes	No	N/A	Yes
108	Environmental requirements	Yes	No	N/A	N/A
109	Plumbing riser	Yes	No	N/A	Yes
	Mechanical				
110	Energy calculations	Yes	No	N/A	Yes
111	**Review required by the Columbia County Fire Department Items 111Th 114** Exhaust systems	Yes	No	N/A	Yes
112	Clothes dryer exhaust	Yes	No	N/A	N/A
113	Kitchen equipment exhaust	Yes	No	N/A	Yes
114	Specialty exhaust systems	Yes	No	N/A	N/A
	Equipment location				
115	Make-up air	Yes	No	N/A	Yes
116	Roof-mounted equipment	Yes	No	N/A	Yes
117	Duct systems	Yes	No	N/A	Yes
118	Ventilation	Yes	No	N/A	Yes
119	Laboratory	Yes	No	N/A	N/A
120	Combustion air	Yes	No	N/A	N/A
121	Chimneys, fireplaces and vents	Yes	No	N/A	N/A
122	Appliances	Yes	No	N/A	N/A
123	Boilers	Yes	No	N/A	N/A
124	Refrigeration	Yes	No	N/A	Yes
125	Bathroom ventilation	Yes	No	N/A	Yes

		Items to Include- Each Box shall be Circled as Applicable			
	Gas				
126	**Review required by the Columbia County Fire Department Items 126Th 134** Gas piping	Yes	No	N/A	N/A
127	Venting	Yes	No	N/A	N/A
128	Combustion air	Yes	No	N/A	N/A
129	Chimneys and vents	Yes	No	N/A	N/A
130	Appliances	Yes	No	N/A	Yes
131	Type of gas	Yes	No	N/A	Yes
132	Fireplaces	Yes	No	N/A	N/A
133	LP tank location	Yes	No	N/A	No
134	Riser diagram/shutoffs	Yes	No	N/A	Yes
	Notice of Commencement				
135	A recorded (in the Columbia County Clerk Office) notice of commencement is required to be on file with the building department . ***Before Any Inspections Will Be Done***	Yes	No	N/A	Yes
	Disclosure Statement for Owner Builders	Yes	No	N/A	N/A

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Mesker Door inc.	HM Door and frame	15542-R1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS	Kawneer	Aluminum Storefront	FL7237
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.
Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Contractor OR Agent Signature Date

NOTES: _____

REPORT OF GEOTECHNICAL EXPLORATION

Hungry Howie's Store – Parcel ID 00-00-00-14425-000
US Highway 27 & SW Walkers Way , Fort White
Columbia County, Florida
AID, Inc. Project No. NFGC18001

- Prepared For -
North Florida General Contracting, Inc.
14036 NW US Highway 441
Alachua, Florida 32615

- Prepared by -
American Infrastructure Development, Inc.
122 SW Midtown Place, Unit 101
Lake City, Florida 32025

June 28, 2018

AMERICAN INFRASTRUCTURE DEVELOPMENT, INC.

June 28, 2018

Mr. Jim Cottingham
North Florida General Contracting, Inc.
14036 NW US Highway 441
Alachua, Florida 32615

Reference: Report of Geotechnical Exploration
Hungry Howie's – Parcel ID 00-00-00-14425-000
US Highway 27 & SW Walkers Way , Fort White, Columbia County, Florida
AID, Inc. Project No. NFGC18001

Dear Mr. Cottingham:

American Infrastructure Development, Inc. (AID) has completed the geotechnical exploration at the referenced site. Our work was performed in general accordance with our proposal dated June 18, 2018. Acceptance to this work and authorization to proceed was provided on June 21, 2018.

The following report presents the results of our field exploration and testing, an evaluation of the subsurface conditions with respect to available project characteristics, and recommendations to aid in the design and construction of the proposed building and pavement areas.

We have enjoyed assisting you on this project and look forward to serving as your geotechnical and construction materials testing consultant for the remainder of this and future projects. Should you have any questions concerning this report, please contact our office at 386-438-8058.

Sincerely,
American Infrastructure Development, Inc.

NABIL O. HMEIDI LICENSE NO. 57842 STATE OF FLORIDA PROFESSIONAL ENGINEER 2018

COPY

Nabil O. Hmeidi, P.E.
Senior Geotechnical Engineer
Licensed, Florida No. 57842

Distribution: File (1 copy)
Addressee (1 e-mailed copy in PDF format)

TABLE OF CONTENTS

ATTACHMENTS

Attachments: Vicinity Map (1 page)
Boring Locations Map (1 page)
Record of Boring Logs (2 pages)

1.0 INTRODUCTION

The purpose of this geotechnical exploration was to develop information to evaluate the site and subsurface conditions, and to present site preparations and foundation support recommendations for the proposed Hungry Howie's store at the referenced site. This report briefly describes our field activities and presents our findings and recommendations. Services performed during the course of this exploration can be summarized as follows:

- Performed site reconnaissance to identify surface conditions and accessibility;
- Reviewed available data such as results of similar exploration and published information;
- Planned and performed a total of two (2) Standard Penetration Test (SPT) borings each extending 25 feet below the existing ground surface;
- Reviewed and analyzed gathered data, and
- Prepared this report, which includes the results of our field exploration as well as our recommendations with respect to general site development, and quality control.

2.0 SITE & PROJECT DESCRIPTIONS

2.1 Site Description

The subject site is located within the southeastern quadrant of US Highway 27 and S 3RD Street intersection in Fort White, Columbia County, Florida. At the time of our field work, the ground surface within the construction area was covered with grass, underbrush, and a few scattered trees. Concrete and gravel driveways associated with previous occupant were noted on site. We have been provided a FDOT Submittal set prepared by North Florida Professional Services, Inc. dated August 2017, these plans indicate the existing ground surface elevations to range from about 65 to 68 near the southern and northern property lines, respectively. Exposed soils appear moist, however, no ponded water noted on the surface. Utility lines were noted along the northern property line, and are likely present elsewhere within the subject site.

2.1 Project Description

Based on our review of furnished plans, we understand the project will consist of constructing a one-story 1,160 SF Hungry Howie's Store with associated parking, driveway, and stormwater management facility areas. Construction details and structural information regarding the proposed building were not available at this time. However, we anticipate the construction will be of structural steel and/or wood frame with brick veneer supported by a turned-down concrete slab-on-grade. For the proposed structure, we assume maximum column and wall loads on the order of 25 kips and 3 to 4 kips per linear foot, respectively. We also assume that nominal cuts and fills of less than 3 feet will be required to achieve final grades. The soil-supported ground floor loads (dead load plus live load) are not expected to exceed 125 psf.

We should note that subsurface evaluation associated with the stormwater management facility area was beyond the scope of this exploration.

3.0 FIELD EXPLORATION

Our field program consisted of performing two (2) SPT borings each extending 25 feet below the existing ground surface. The borings were performed at the approximate locations shown on the attached Boring Locations Map. These locations were determined in the field and measured by tape and approximating right angles from existing features (property corners, building, concrete pads, etc.). Therefore, the boring locations should be considered only as accurate as the means and methods by which they were obtained. The following table summarizes the subsurface conditions encountered at each boring location:

SUMMARY OF FIELD EXPLORATION PROGRAM
Hungry Howie's – Parcel ID 00-00-00-14425-000
US Highway 27 & SW Walkers Way , Fort White, Columbia County, Florida
AID, Inc. Project No. NFGC18001

Boring No.	Approximate Coordinates	Depth (feet)	Date Drilled Method	At-Completion Groundwater (feet)	Ground Surface Elevation (feet)	Bottom Condition
B-1	29.922645° N, 82.715237° W	25	06/27/2017 SPT (Manual)	23	±65	Terminated (Limestone)
B-2	29.922807° N, 82.715177° W	25	06/27/2017 SPT (Manual)	Cave-In @ 9'	±66	Terminated (CH)

NOTE: Depths referenced from the existing ground surface. Global Positioning System (GPS) coordinates were acquired using a handheld device.

Sampling and penetration procedures of the SPT borings were accomplished in general accordance with ASTM D-1586, "*Penetration Test and Split-Barrel Sampling of Soils*", using a power rotary drill rig. The standard penetration tests were performed by driving a standard 1-3/8" I.D. and 2" O.D. split spoon sampler with a 140-pound hammer falling 30 inches. The number of hammer blows required to drive the sampler a total of 18 inches, in 6-inch increments, were recorded. The penetration resistance or "*N*" value is the summation of the last two 6-inch increments and is illustrated on the attached boring log adjacent to their corresponding sample depths. The "*N*" values are used as an index to derive soil parameters from various empirical correlations. Representative samples of the soils were brought to the ground surface by the auger process and transported to our office for visual evaluation and classification. The borings were performed using a tracked CME-45 drill rig equipped with a manual hammer.

The attached record of boring logs presents the description of the subsurface conditions encountered at the time of our field program. They also provide the penetration resistances recorded during the drilling and sampling process. It should be noted the stratification lines and depth designations indicated on the boring records represent the approximate boundaries between the various soils encountered. In some cases, the transition between these soils may be gradual.

4.0 SITE AND SUBSURFACE CONDITIONS

4.1 General Site Geology

Published information[1] regarding the geology in this area of Columbia County, Florida indicates the site is situated within the quaternary undifferentiated sediments (Qu) of the Pleistocene and Holocene epochs. Typically, these sediments consist of siliciclastics, organics and freshwater carbonates. The siliciclastics are light gray, tan, brown to dark, unconsolidated to poorly consolidated, clean to clayey, silty, fossiliferous, variably organic-bearing sands to blue green to olive green, poorly to moderately consolidated, sandy, silty, clays.

4.2 Sinkhole Potential

Sinkholes are primarily caused by an advanced state of internal soil erosion or raveling action which under certain circumstances can lead to ground subsidence. This internal soil erosion is a very slow process by which soil particles migrate under the influence of a hydraulic gradient to underlying karsted and/or fractured limestone formation. There are several indicators generally associated with internal soil erosion such as noticeable surface depressions, very loose to soft soil zones just above the limestone rock formation, or presence of weathered to highly weathered limestone bedrock.
The USGS Map Series No. 110, Sinkhole Type, Development, and Distribution in Florida dated 1985 identifies the site within Area I. This area consists of ground with bare or thinly covered limestone. Gradually developed solution sinkholes in this

1 Geologic Map of the State of Florida, Series MS 146, by the Florida Geological Survey (FGS), 2001, revised April 15, 2006 & Open-File Report 80, by FGS dated 2001.

area are few, broad, and shallow. The Sinkhole Database issued by the Florida Geological Survey (last updated May 6, 2013) indicates a number of "reported" sinkhole occurrences within the southern parts of Columbia County, with the nearest being about 4,600 feet east of the subject site (see database reference No. 29-009 occurred on August 8, 1973).

Results of the test borings did not reveal presence of active sinkholes within the explored profile. Therefore, it is our opinion the proposed development on this site will have no greater risk of damage due to sinkhole activity than the development of structures in nearby areas.

Due to the nature of sinkholes and the limitations of the current detection methods, it is incorrect to assume that this exploration eliminates the probability of future sinkholes from occurring. It is possible that existing sinkholes or subsurface conditions, which could be associated with future sinkholes, were not detected or predicted by this exploration. Also, it must be understood that this exploration was not intended to predict or preclude future sinkholes from occurring within the subject site.

4.3 Subsurface Conditions

In general, the soil profile as disclosed by the borings initially consisted of about 4 inches of dark gray sand with silt and organic (topsoil). This surface cover is underlain by alternating layers of gray to grayish tan sand with silt (SP-SM), light gray sand (SP), reddish brown and light gray mottled clayey sand (SC), gray and reddish brown mottled clay (CH). Beneath the clay, boring B-1 disclosed cream to white weathered limestone. Partial loss of drilling mud circulation was encountered in B-1 at about 21½ feet below the existing ground surface.

The relative density of the sandy soils vary from very loose to very dense with standard penetration resistance or "*N*" values ranging from 3 to exceeding 50 Blows Per Foot (BPF). The clay soils have a firm consistency with "*N*" values ranging from 6 to 7 BPF.

4.4 Groundwater

The groundwater was recorded immediately following completion of drilling of each boring, at the time of completion, the groundwater was encountered in boring B-1 at about 23 feet below the existing ground surface. We note that due to the relatively short time frame of the field program and clayey nature of the site soils, the groundwater may not have had sufficient time to stabilize. Fluctuation in groundwater levels should therefore be expected due to seasonal climatic changes, construction activity, rainfall variations, surface water runoff, and other site-specific factors.

5.0 SITE PREPARATION

5.1 General

The recommendations presented in this report are based upon available project information, anticipated loading conditions, and data obtained during our field program. If the structural information is incorrect or the location of the structures change, please contact this office so our recommendations may be reviewed and/or revised. Discovery of any site or subsurface condition during construction, which deviates from the data collected during this exploration, should be reported to us for evaluation.

As previously stated, partial loss of drilling mud circulation was encountered in B-1 at about 21½ feet below the existing ground surface. This loss of circulation may be the result of the natural weathering of the limestone bedrock, an indicator of presence of erosion channels within the limestone bedrock, and/or an effect of strata transition within the subsurface profile. To attain a better understanding of the cause for this loss of circulation, we recommend a complementary geophysical study be performed on this site. This study may consist of Ground Penetrating Radar (GPR) and/or Electrical Resistivity (ER) soundings. If the results of the geophysical study indicate insignificant anomalies, then the subject site can be made to support the proposed development as indicated herein.

5.2 Exposed Subgrade

All soils within the proposed building and paved areas (including a minimum of 5 feet outside the perimeter of all structures and paved areas) should be compacted with overlapping passes of a drum roller having a total operating static weight (including fuel and water) of at least 10 tons and a drum diameter of 5 feet. Exposed surfaces within the structure and pavement areas should be densified prior to placement of any new fill by providing a minimum of 8 full coverages of all surfaces to be compacted.

5.3 Structural Fill/Backfill

The existing ground surface within the property limits is covered with topsoil, grass, shrubs, and scattered trees. Also, underground utilities may be present. Therefore, the initial site preparations should include the complete removal of topsoil, vegetation, trees, underground utilities and any other deleterious material that fall within the building and pavement areas. The complete removal of the trees root system may create relatively deep open excavations. Loose soils in these excavations resulting from the uprooting of trees, vegetation, and re-routing of underground utility lines should be removed from the excavations, then the exposed surfaces (bottom and sides of excavations) should be recompacted, tested and stabilized prior to backfilling. Proper backfilling of the excavations should be performed in accordance with the guidelines presented herein.

The borings disclosed very loose to loose sand and sand with silt soils (soils classified as SP or SP-SM) within the upper 7 to 8 feet of the existing ground surface. Beneath this stratum, the test borings disclosed reddish brown and light gray mottled clayey sand soils (soils classified as SC) to about 9 to 10 feet below the existing ground surface. For this construction, we do not anticipate construction excavations to extend below the 5 feet of the existing ground surface. Once the initial site preparations are satisfactorily performed, new grade raise structural fill may be placed and compacted accordingly.

Structural fill should be placed in thin loose lifts not exceeding 12 inches in thickness and compacted to achieve the required compaction levels. Each lift of structural fill should be compacted to provide a minimum of 95 percent of the modified Proctor maximum dry density value (ASTM D-1557) within the proposed structures and pavement areas. Reused overexcavated suitable soils or off site structural fill should consist of inorganic, non-plastic, granular soil containing less than 12 percent material passing the No. 200 sieve

5.4 Foundation Support

Provided the foundation and site soils are prepared in accordance with the guidelines presented in this report, it is our opinion the proposed buildings can be supported on a conventional shallow foundation system. The shallow foundation may be designed for an allowable bearing pressure of 2,000 pounds per square foot (psf) or less supported on recompacted in-situ soils or newly placed structural fill.

The wall bearing footings can be designed with a minimum width of 18 inches, while the individual column footings can have minimum dimensions of 2 feet by 2 feet. Exterior column footings and wall bearing footings should be designed with a minimum embedment depth of 18 inches, as measured from the base of the footing to the lowest adjacent outside grade. The minimum depth of embedment of the interior footings should be 12 inches. In using net pressures, the weight of the footing and backfill over the footing need not be considered. Only loads applied at or above final grade need to be used for dimensioning footings.

5.5 Floor Slab

After satisfactory completion of the initial site preparations, the finished subgrade soils within the floor slab areas should be proofrolled with a fully-loaded, tandem-axle dump-truck or similar pneumatic-tired equipment (tracked equipment should not be used for this task). Provided the recompaction and proofrolling operations do not indicate significant deflection or pumping of the existing subgrade, floor slabs may be designed as slabs-on-grade. All floor slabs should be supported on at least 4 inches of relatively clean granular material, such as sand, sand and gravel, or crushed stone. This is to help distribute concentrated loads and equalize moisture beneath the slab. This granular material should have 100 percent passing the 1½ -inch sieve and a maximum of 12 percent passing the No. 200 sieve.

It is recommended the floor slab bearing soils be covered by a properly lapped polyethylene sheathing of adequate thickness (minimum 6-mil). This will alleviate the potential for floor dampness, which can affect the performance of floor coverings such as tiles and carpets. The polyethylene film should provide a sealed coverage of the bearing soils. Seams should be lapped a minimum of 6 inches; and all cuts for pipes penetration, and punctures should be sealed. Expansion and contraction joints should be used to isolate the floor slab from load bearing walls and/or isolated columns. This will allow for possible differential movement and minimize the potential for cracking of the floor slabs.

5.6 Recommended Soil Parameters

Based upon the soil conditions encountered at the subject site, the anticipated fill placement, and the recommended site preparation operations presented in this report, the following soil parameters may be used for designing structures resisting uplift and lateral forces:

- Estimated total unit weight = 115 pcf (compacted to 95% of ASTM D-1557)
- Friction angle (φ) = 30°
- Cohesion (c) = 0 psf
- Coefficient of friction at the base of shallow footings = 0.40
- Coefficient of passive earth pressure (K_p) = 3.000
- Coefficient of active lateral earth pressure (K_a) = 0.333
- At-rest lateral earth pressure (K_o) = 0.500
- Horizontal movement to mobilize lateral resistance = ¼ inch
- Vertical subgrade reaction (k) = 100 pci

The presence of water behind retaining walls (if any) due to surface water intrusion should be handled with the use of a weep-holes and/or drainage layer behind the walls with a collection pipe discharging accumulated water away from the walls. If this is not practical, then all structures bearing below the water level must be properly designed to resist hydrostatic pressures.

5.7 Settlement Analyses

The actual magnitude of settlement that will occur beneath the foundations will depend upon variations within the subsurface soil profile, actual structural loading conditions, embedment depth of the footings, actual thickness of compacted fill or cut, and the quality of the earthwork operations. Assuming the foundation related site work and foundation design is completed in accordance with the enclosed recommendations, we estimate the total settlement of the structure will be on the order of 1 inch or less. Differential settlements (between adjacent columns or along the length of a continuous wall footing) should be approximately one-half of the total settlement (See Structural Fill/Backfill section for more guidelines).

5.8 Drainage Considerations

Adequate drainage should be provided at the site to minimize increase in moisture content of the foundation soils and pavement subgrade. Excessive moisture can significantly reduce the soil's bearing capacity and contribute to foundation settlement. For the protection of the foundation soils, we recommend the ground surface be sloped away from all proposed structures and paved areas.

5.9 Construction Monitoring and Testing Guidelines

Prior to initiating compaction operations, we recommend that representative samples of the on-site and any off-site materials to be used as structural fill be tested to determine their compaction and classification characteristics. The tests are needed for compaction quality control and acceptability of the structural fill/backfill. Also, a number of representative in-place field density tests should be performed in the compacted soils and in each lift of structural fill or backfill to verify that the required degree of compaction has been achieved. The following table summarizes the minimum density testing frequencies required at the subject site:

Area	Recommended Minimum Density Test Frequency
Concrete Slab-On-Grade	*1 test per 1,000 ft² in each lift of compacted soils*
Footing Bearing Level Soils	
- *Spread Footings*	*1 test per 100 ft² of bearing surface*
- *Continuous/Strip Footings*	*1 test per 100 lineal feet of bearing surface*
Pavement Areas	*1 test per 2,500 ft²*

6.0 PAVEMENT DESIGN CONSIDERATION

6.1 Pavement Areas

After satisfactory pavement subgrade preparations, as described above, the exposed surfaces should be thoroughly densified and proofrolled. The proofrolling should be witnessed by the geotechnical engineer to delineate areas of unsuitable subgrade. Any areas delineated as unsuitable subgrade, should be compacted and stabilized prior to placement of the base course material.

A trial pavement design was performed based upon the estimated traffic patterns, the anticipated traffic volume and quality control per the current Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction; and the American Association of State Highway and Transportation Officials (AASHTO) criteria. The following pavement sections were designed based on an 85.0 percent level of reliability and 0.0 percent growth rate. Effect of frost heave or soil swelling was considered negligible for the Columbia County, Florida area.

6.1.1 Standard Duty Pavement

Traffic Volume: An EAL of 18 Kips per day of 4.66 or a total of 34,000 EALs for the design life.

Design Life: 20 years, terminal serviceability = 2.0

Subgrade: Minimum 2.0 feet of densified structural fill

Flexible Pavement: 2.0 inches of Asphaltic Concrete over 6.0 inches of limerock base material (LBR=100)

Rigid Pavement: 5.0 inches of Concrete Pavement

6.1.2 Heavy Duty/Dumpster Areas

Traffic Volume: An EAL of 18 Kips per day of 9.32 or a total of 68,000 EALs for the design life.

Design Life: 20 years, terminal serviceability = 2.5

Subgrade:	Minimum 12 inches of stabilized subgrade (LBR=40) over minimum 12 inches of structural fill
Flexible Pavement:	3 inches of Asphaltic Concrete over 6.0 inches of limerock base material (LBR=100)
Rigid Pavement:	6.0 inches of Concrete Pavement

6.2 Pavement Subgrade

Any fill utilized to elevate the pavement areas to final subgrade elevation should consist of relatively clean fine sands (inorganic, non-expansive/non-plastic sands containing less than 12 percent, by weight, of fines). Pavement subgrade should be uniformly compacted to a minimum density of 95 percent of the soil's modified Proctor maximum dry density (ASTM D-1557).

Laboratory tests should be performed on all off-site structural fill to be used to elevate proposed pavement areas to confirm these soils meet the minimum requirements and can achieve the desired LBR values. Where subgrade stabilization is necessary, we recommend stabilization be used, as specified by the current Florida Department of Transportation (FDOT) "Standard Specifications for Road and Bridge Construction", Section 160. To avoid rutting, traffic should not be allowed on pavement subgrade prior to placement and compaction of the base course materials.

6.3 Base Course

A limerock or graded aggregate base material may be used on this project. In this area, it has been our experience that limerock base is the most economical base material. The limerock base should meet the requirements of Section 911 in the current FDOT "Standard Specifications for Road and Bridge Construction". Limerock base or graded aggregate base or crushed concrete material, if selected, should meet FDOT requirements, including compaction to 98 percent of its maximum dry density as determined by the modified Proctor test (ASTM D-1557) and a minimum Limerock Bearing Ratio (LBR) of 100 percent at 98 percent compaction. The use of base material other than limerock, graded aggregate or crushed concrete is not recommended.

7.0 REPORT LIMITATIONS

This report has been prepared for the exclusive use of North Florida General Contracting, Inc. of Alachua, Florida for the specific application to the project discussed herein. Our conclusions and recommendations have been rendered using generally accepted standards of geotechnical engineering practice in the State of Florida. No other warranty is expressed or implied. AID, Inc. is not responsible for the interpretations, conclusions, opinions, or recommendations of others based on the data contained herein. Environmental assessment for the presence of pollutants in the explored subsurface was beyond the scope of this exploration.

ATTACHMENTS

American Infrastructure Development, Inc. **122 SW Midtown Place, Unit 101** **Lake City, Florida 32025** **Phone: (386) 438-8058**	**Vicinity Map** **Hungry Howie's Store – Parcel ID 00-00-00-14425-000** **Fort White, Columbia County, Florida** **AID, Inc. Project No. NFGC18001**

Exhibit 1

American Infrastructure Development, Inc. **122 SW Midtown Place, Unit 101** **Lake City, Florida 32025** **Phone: (386) 438-8058**	**Boring Location Map** **Hungry Howie's Store – Parcel ID 00-00-00-14425-000** **Fort White, Columbia County, Florida** **AID, Inc. Project No. NFGC18001**

Exhibit 2

American Infrastructure Development, Inc.
122 SW Midtown Place, Unit 101
Lake City, Florida 32025
Phone: (386) 438-8058

BORING NUMBER: B-1

CLIENT: North Florida General Contracting, Inc.
PROJECT NUMBER: NFGC18001
DATE STARTED: 06/27/2018 COMPLETED: 06/27/2018
DRILLING CONTRACTOR: Whitaker Drilling, Inc.
DRILLING METHOD: CME-55 ATV, Automatic Hammer
LOGGED BY: N.H. CHECKED BY: ===
NOTES: ===

PROJECT NAME: Hungry Howie's - Parcel ID 00-00-00-14425-000 US Highway 27 & SW Walkers Way
PROJECT LOCATION: Fort White, Columbia County, Florida
GROUND ELEVATION: 65
GROUND WATER LEVELS:
AT TIME OF DRILLING: ===
AT END OF DRILLING: 23' @ Completion of Drilling
AFTER DRILLING: ===

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	BLOW COUNTS (N VALUE)	SAMPLE TYPE NUMBER	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0		4" Dark gray, sand with silt and organic (TOPSOIL)								
		LOOSE, gray to grayish tan, sand with silt (SP-SM)	3-3-2 (5)	SPT 1						
			3-2-2 (4)	SPT 2						
5		LOOSE, light gray, sand (SP)	2-2-2 (4)	SPT 3						
			3-4-5 (9)	SPT 4						
		LOOSE, reddish brown and light gray, mottled, clayey sand (SC)	4-4-5 (9)	SPT 5						
			7-6-3 (9)	SPT 6						
10										
			2-3-3 (6)	SPT 7						
15		FIRM, gray and reddish brown, mottled, clay (CH)								
		LOOSE to VERY DENSE, cream to white, weathered LIMESTONE	18-30-35 (65)	SPT 8						
20										
		Loss of circulation at 21.5 feet.								
			6-2-5 (7)	SPT 9						
25		Boring Terminated @ 25' ±29.922645° N, 82.715237° W Boring Grouted To The Surface								
30										
35										

XXX

American Infrastructure Development, Inc.
122 SW Midtown Place, Unit 101
Lake City, Florida 32025
Phone: (386) 438-8058

BORING NUMBER: B-2

Hungry Howie's - Parcel ID 00-00-00-14425-000

CLIENT: North Florida General Contracting, Inc.
PROJECT NAME: US Highway 27 & SW Walkers Way
PROJECT NUMBER: NFGC18001
PROJECT LOCATION: Fort White, Columbia County, Florida
DATE STARTED: 06/27/2018 COMPLETED: 06/27/2018
GROUND ELEVATION: 66
DRILLING CONTRACTOR: Whitaker Drilling, Inc.
GROUND WATER LEVELS:
DRILLING METHOD: CME-55 ATV, Automatic Hammer
AT TIME OF DRILLING: ===
LOGGED BY: N.H. CHECKED BY: ===
AT END OF DRILLING: Cave-In @ 9'
NOTES: ===
AFTER DRILLING: ===

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	BLOW COUNTS (N VALUE)	SAMPLE TYPE NUMBER	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0		4" Dark gray, sand with silt and organic (TOPSOIL)								
		LOOSE, gray to grayish tan, sand with silt (SP-SM)	3-3-3 (6)	SPT 1						
			2-2-2 (4)	SPT 2						
5		VERY LOOSE to LOOSE, light gray, sand (SP)	1-1-2 (3)	SPT 3						
			2-2-2 (4)	SPT 4						
			2-3-4 (7)	SPT 5						
10		LOOSE to MEDIUM DENSE, reddish brown and light gray, mottled, clayey sand (SC)	5-6-5 (11)	SPT 6						
15			2-2-2 (4)	SPT 7						
20			4-4-4 (8)	SPT 8						
		FIRM, gray and reddish brown, mottled, clay (CH)								
25			4-2-5 (7)	SPT 9						
		Boring Terminated @ 25' ±29.922807° N, 82.715177° W Boring Grouted To The Surface								
30										
35										

XXX

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: OW-18-0841Q - HUNGRY HOWIES FORT WHITE

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: N. FLORIDA GEN. CONTRACTING Project Name: HUNGRY HOWIES FT. WHITE Model: .
Lot/Block: . Subdivision: .
Address: .
City: COLUMBIA COUNTY State: FL

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

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2014/TPI2007 Design Program: MiTek 20/20 8.1
Wind Code: ASCE 7-10 Wind Speed: 140 mph
Roof Load: 55.0 psf Floor Load: N/A psf

This package includes 1 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T15974436	T-01	1/9/19

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Manning Building Supplies.

Truss Design Engineer's Name: Albani, Thomas
My license renewal date for the state of Florida is February 28, 2019.

THOMAS A. ALBANI
LICENSE
No 39380
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

January 9,2019

MANNING TRUSS - OCALA

2200 NE 25th Ave.
Ocala, FL 34470-3916
Phone: 352-387-2572 * Fax: 352-387-2579

TRUSS DIVISION - OCALA FLORIDA

Reactions Summary

OW-18-0841Q

Printed: 01/09/19 PAGE 1

Customer Information

Name:	Contact:	Home or Office Phone:	Cell Phone:
NORTH FL. GEN. CONTRACTING		(386) 462-1982	
Address:	**City, ST, ZIP:**		**Fax:**
	,		

Job Information

Description:	Region:	Invoice Number:	Customer P.O.:	Invoice Date:
HUNGRY HOWIES FORT WHITE				/ /
Address: 119 WALKERS WAY		**City, ST, ZIP:** FORT WHITE, FL 32038		
Salesman: S. Holmes		**Designer:** K. Chittum		

Loading Information

Roof Loads:				Floor Loads:			
TC Live:	TC Dead:	BC Live:	BC Dead:	TC Live:	TC Dead:	BC Live:	BC Dead:
20	25	.0	10	40	10	.0	5

Idg Code: FBC2017/TPI2014	Wind Des Method	Exposure Cat	Occupancy Cat	Velocity / TC Dead / BC Dead
Idg Cat: Residential	MWFRS(Directional)/C-C hybrid Wind ASCE 7-10	C	II	140.000 / 4.200 / 6.000

ROOF TRUSSES

PROFILE	QTY / PLY	TOP / BOT	TYPE / ID	BASE / O/A	TOP / BOT	LEFT OH / RIGHT OH		REACTIONS	
		0.00	FLAT	16-01-00	2 X 6	00-03-08	Jt	1	4
							High	958.5	954.1
	31	0.00	T-01	16-01-00	2 X 4	00-03-08	Low	-481.0	-481.0
							Loc-X	00-01-12	15-11-04
							Loc-Y	01-09-04	01-09-04

Job	Truss	Truss Type	Qty	Ply	HUNGRY HOWIES FORT WHITE
OW-18-0841Q	T-01	FLAT	31	1	T15974436
					Job Reference (optional)

Manning Building Supply, Ocala, FL 34470-3916 8.220 s Nov 16 2018 MiTek Industries, Inc. Wed Jan 9 08:16:33 2019 Page 1
ID:syWDO1nUerIgCyeT0ErmZXzDEc6-g_03U1OttUKDt3B76r_Yyym1oSXR8TZoiY86a7zx8gy

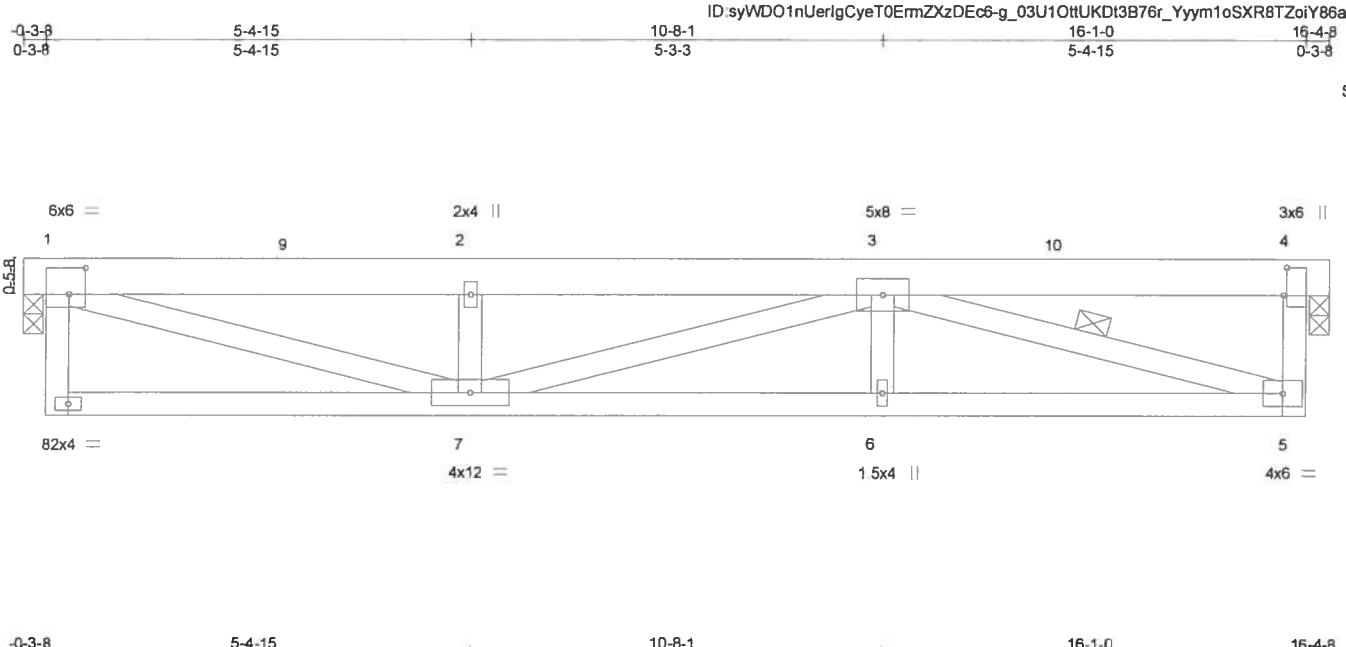


Plate Offsets (X,Y)-- [1:0-2-8,0-4-0], [4:0-4-4,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	0.13	6-7	>999	240	MT20	244/190
TCDL	25.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.18	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 93 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP DSS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

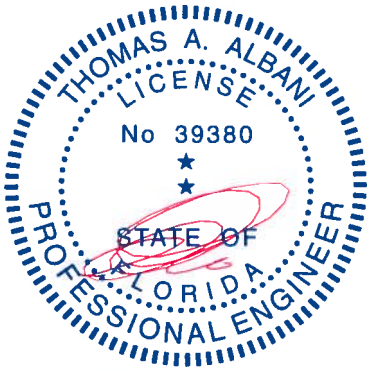
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-11 oc bracing.
WEBS 1 Row at midpt 3-5

REACTIONS. (lb/size) 4=908/0-3-0, 1=908/0-3-0
Max Horz 1=87(LC 11)
Max Uplift 4=-481(LC 9), 1=-481(LC 8)
Max Grav 4=954(LC 19), 1=959(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2258/1190, 2-3=-2258/1190, 4-5=-300/698
BOT CHORD 6-7=-1083/2162, 5-6=-1083/2162
WEBS 1-7=-1122/2252, 2-7=-576/426, 3-5=-2159/1087

NOTES-
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=481, 1=481.
7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

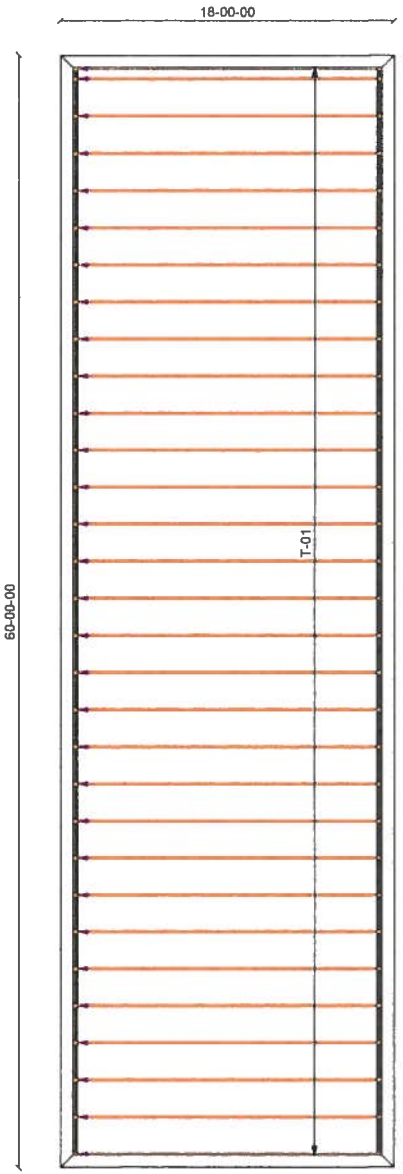
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-90, 2-3=-105, 3-4=-90, 5-8=-20



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 9,2019

All claims for error or defective material must be made within 5 days of receipt of goods and prior to installation. Otherwise, said claim will be denied.

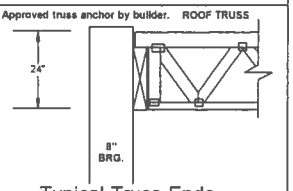


Top Chord Live Load	20 p.s.f.
Top Chord Dead Load	25 p.s.f.
Bottom Chord Live Load	0 p.s.f.
Bottom Chord Dead Load	10 p.s.f.
Total Load	55 p.s.f.
Duration Factor	1.25
Wind Standard	ASCE7-10
Wind Speed	140 m.p.h.
Building Exposure	C
Building Type	Closed

Notice:

It is the responsibility of the building designer or architect to provide an appropriate connection for trusses to supporting structure per reactions shown on truss engineering. Special considerations for mechanical equipment and/or plumbing (and their connections) in truss space must be diagrammed by the builder an approved truss layout prior to

Manning Building Supplies is a truss manufacturer whose responsibilities are limited to those described in ANSI/TPI/WTCA 4-2002 (sections 8.0 and 7.0). Accordingly, the construction design, drawings, documents including the installation and bracing of trusses manufactured by Manning Building Supplies.



Typical Truss Ends

PLAN DATE: 08-30-2018

ATTENTION

" APPROVAL OF THIS TRUSS LAYOUT IS NECESSARY BEFORE FABRICATION CAN BEGIN. ACCEPTANCE OF THIS LAYOUT VERIFIES THAT THE SPANS, PITCHES, OVERHANGS, ELEVATIONS, DIMENSIONS, CEILING TRANSITIONS & BEARING CONDITIONS HAVE BEEN CHECKED FOR ACCURACY. ALL TRUSSES WILL BE BUILT IN ACCORDANCE WITH THIS LAYOUT "

APPROVED BY: _____

DATE: _____

Warning:

Conventional framing, erection and/or permanent bracing is not the responsibility of the truss designer, plate manufacturer, or truss manufacturer. Persons erecting trusses are cautioned to seek professional advice regarding erection bracing which during erection; and permanent bracing which may be required in specific applications. See "Bracing wood trusses commentary and recommendations (BCSI 2006) for further information.

Trusses shall be installed in a straight and plumb position. Where no sheathing is applied directly to the top and/or bottom chords, they shall be braced as specified on the engineered design. Trusses shall be handled with reasonable care during erection to prevent damage or personal injury.

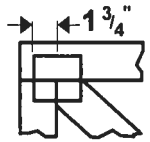
Manning Building Supplies, INC.
2200 NE 25th Ave
Ocala, FL 34470-3916
Phone: (352) 387-2572
Fax: (352) 387-2579
WWW.MBS-CORP.COM
OCTRUSS@MBS-CORP.COM

Customer: NORTH FL. GEN. CONTRACTING			
Job Name: HUNGRY HOWIES FORT WHITE			
Lot/Blk/Subdiv			
Reviewed By:	Date: 06/08/18	Drawn By: KC	Job Number: OW-18-0841Q

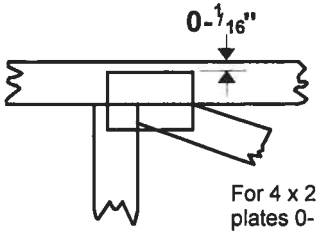
FLORIDA PRODUCT APPROVAL CODES: MITEK PLATES 1999....GEORGIA PACIFIC LVL 2023....GEORGIA PACIFIC WI I-JOIST 1008.... GEORGIA PACIFIC RIMBOARD 2147

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

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

PLATE SIZE

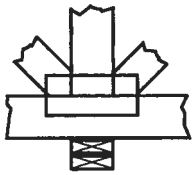
4 x 4

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

LATERAL BRACING LOCATION

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

BEARING

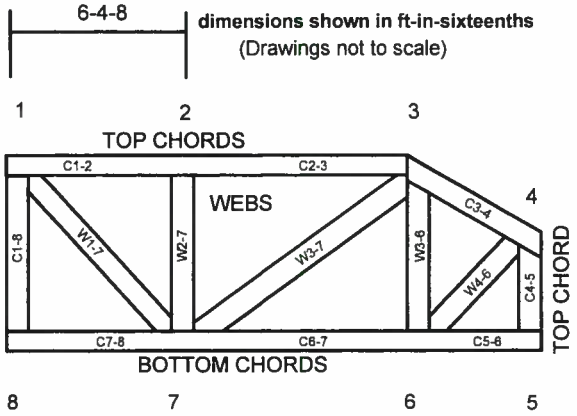


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

Florida Building Code, Sixth Edition (2017) - Energy Conservation

EnergyGauge Summit® Fla/Com-2017, Effective Date: Dec 31, 2017

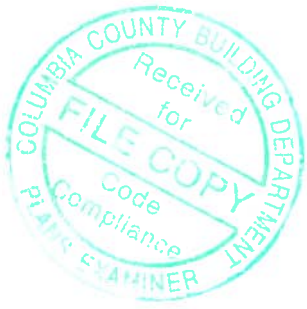
IECC 2015 - Prescriptive Compliance Option

Check List

Applications for compliance with the Florida Building Code, Energy Conservation shall include:

- ☐ This Checklist
- ☐ The full compliance report generated by the software that contains the project summary, compliance summary, certifications and detailed component compliance reports.
- ☐ The compliance report must include the full input report generated by the software as contigous part of the compliance report.
- ☐ Boxes appropriately checked in the Mandatory Section of the complaince report.

WARNING: INPUT REPORT NOT GENERATED.
To include input report in final submission, go to the Project Form, Settings Tab and check the box - "Append Input Report to Compliance Output Report"
Then rerun your calculation



PROJECT SUMMARY

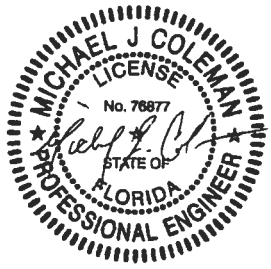
Short Desc:	201805_011_CAA	**Description:**	Hungry Howies 18-157
Owner:	Jim Cottingham		
Address1:		**City:**	FORT WHITE
Address2:		**State:**	FL
		Zip:	32038
Type:	Dining: Cafeteria/Fast Food	**Class:**	New Finished building
Jurisdiction:	COLUMBIA COUNTY, COLUMBIA COUNTY, FL (221000)		
Conditioned Area:	1080 SF	**Conditioned & UnConditioned Area:**	1080 SF
No of Stories:	1	**Area entered from Plans**	1080 SF
Permit No:	0	**Max Tonnage**	4.8
		If different, write in:	

Building Rotation: 20 Deg Clockwise. Walls & windows will be rotated accordingly

Compliance Summary

Component	Design	Criteria	Result
ENVELOPE PRESCRIPTIVE			**PASSES**
Additional Efficiency Package Option - High Efficiency SWH By initialing, user certifies compliance with requirements of C406.7 (FBC 6th Ed/IECC2015)			**Initials required:** _____
LIGHTING POWER	1,055.0	1,302.2	**PASSES**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**No Entry**
HVAC SYSTEM			**PASSES**
PLANT			**No Entry**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**No Entry**
Met all required compliance from Check List?			**Yes/No/NA**

IMPORTANT MESSAGE
Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report



CERTIFICATIONS

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

Prepared By: Michael Coleman

Date: 5/22/2018

Building Official: _____

Date: _____

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: Michael Conn

Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect:	Michael Conn	Reg No:	AAC001662
Electrical Designer:	Michael Conn	Reg No:	AAC001662
Lighting Designer:	Michael Conn	Reg No:	AAC001662
Mechanical Designer:	Michael Conn	Reg No:	AAC001662
Plumbing Designer:	Michael Conn	Reg No:	AAC001662

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

9/20/2018

Project: 201805_011_CAA
Title: Hungry Howies 18-157
Type: Dining: Cafeteria/Fast Food
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Prescriptive Envelope Compliance

Item	Zone	Description	Design	Criteria	Meet Req.
All Fenestration	201805_011_CA	Percent Fenestration Max allowed (%)	8.475	30.000	Yes
West	Zone1	Exterior Wall: UValue Max allowed	.115	0.151	Yes
C-Type	West	Exterior Window: SHGC Max allowed	.250	0.250	Yes
C-Type	Zone1	Exterior Window: UValue Max allowed	.400	0.650	Yes
BC_Door	West	Exterior Window: SHGC Max allowed	.250	0.250	Yes
BC_Door	Zone1	Exterior Window: UValue Max allowed	.400	0.650	Yes
North	Zone1	Exterior Wall: UValue Max allowed	.115	0.151	Yes
B-Type	North	Exterior Window: SHGC Max allowed	.250	0.250	Yes
B-Type	Zone1	Exterior Window: UValue Max allowed	.400	0.650	Yes
BC_Door	North	Exterior Window: SHGC Max allowed	.250	0.250	Yes
BC_Door	Zone1	Exterior Window: UValue Max allowed	.400	0.650	Yes
East	Zone1	Exterior Wall: UValue Max allowed	.115	0.151	Yes
A-Type	East	Exterior Window: SHGC Max allowed	.250	0.250	Yes
A-Type	Zone1	Exterior Window: UValue Max allowed	.400	0.650	Yes
JoistFraming	Zone1	Exterior Roof UValue Max allowed	.027	0.027	Yes
JoistFraming	Zone1	Exterior Roof Absorptance (3-year aged) Max allowed	.450	0.450	Yes
JoistFraming	Zone1	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes
SlabFloor	Zone1	Slab Floor F-Value Max allowed	.600	0.730	Yes
West	Zone2	Exterior Wall: UValue Max allowed	.115	0.151	Yes
East	Zone2	Exterior Wall: UValue Max allowed	.115	0.151	Yes
D-Type	East	Exterior Window: SHGC Max allowed	.250	0.250	Yes
D-Type	Zone2	Exterior Window: UValue Max allowed	.400	0.650	Yes
JoistFraming	Zone2	Exterior Roof UValue Max allowed	.027	0.027	Yes
JoistFraming	Zone2	Exterior Roof Absorptance (3-year aged) Max allowed	.450	0.450	Yes
JoistFraming	Zone2	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes
SlabFloor	Zone2	Slab Floor F-Value Max allowed	.600	0.730	Yes
West	Zone3	Exterior Wall: UValue Max allowed	.115	0.151	Yes
East	Zone3	Exterior Wall: UValue Max allowed	.115	0.151	Yes
South	Zone3	Exterior Wall: UValue Max allowed	.115	0.151	Yes
JoistFraming	Zone3	Exterior Roof UValue Max allowed	.027	0.027	Yes
JoistFraming	Zone3	Exterior Roof Absorptance (3-year aged) Max allowed	.450	0.450	Yes
JoistFraming	Zone3	Exterior Roof Emissivity (3-year aged) Min Required	.900	0.750	Yes
SlabFloor	Zone3	Slab Floor F-Value Max allowed	.600	0.730	Yes

Meets Prescriptive Envelope Requirements -- PASSES

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)

None

Project: 201805_011_CAA
Title: Hungry Howies 18-157
Type: Dining: Cafeteria/Fast Food
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Lighting Power Compliance

Space	Ashrae ID	Description	Area (sq.ft)	Height (ft)	No. of Spaces	Design (W)	Effective (W)	Allowance (W)
Z1_100	12	Lobby (General) - Reception and Waiting	245	10.0	1	155	155	259
Z1_102	6	Toilet and Washroom	60	10.0	1	55	55	58
Z2_101	25,001	Sales Area	121	10.0	1	200	200	192
Z3_103	7	Food Service - Kitchen	447	10.0	1	440	440	541
Z3_104	7	Food Service - Kitchen	209	10.0	1	205	205	253

Design : **1055 (W)**
Effective: **1055 (W)**
Allowance: **1302.215 (W)**
Passing requires Design to be at most 100% of Criteria

PASSES

Project: 201805_011_CAA
Title: Hungry Howies 18-157
Type: Dining: Cafeteria/Fast Food
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
Z1_100	12	Lobby (General) - Reception and Waiting	245	1	1	PASSES
Z1_102	6	Toilet and Washroom	60	1	1	PASSES
Z2_101	25,001	Sales Area	121	1	1	PASSES
Z3_103	7	Food Service - Kitchen	447	1	1	PASSES
Z3_104	7	Food Service - Kitchen	209	1	1	PASSES

PASSES

Project: 201805_011_CAA
Title: Hungry Howies 18-157
Type: Dining: Cafeteria/Fast Food
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

System Report Compliance

System1 **System1** — **Constant Volume Packaged Multizone System** — **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Air Cooled 0 to 65000 Btu/h Cooling Capacity	54600	14.00	14.00	11.60		PASSES
Heating System	Electric Furnace	4600	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	2375	0.22	0.82			PASSES

System2 **System2** — **Constant Volume Packaged Multizone System** — **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Air Cooled 0 to 65000 Btu/h Cooling Capacity	57200	14.00	14.00	11.60		PASSES
Heating System	Electric Furnace	8300	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	2488	0.22	0.82			PASSES

System3 **System3** — **Constant Volume Packaged Multizone System** — **No. of Units 1**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Air Cooled 0 to 65000 Btu/h Cooling Capacity	57500	14.00	14.00	11.60		PASSES
Heating System	Electric Furnace	9000	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	2249	0.22	0.82			PASSES

PASSES

Plant Compliance

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

None

Project: 201805_011_CAA
Title: Hungry Howies 18-157
Type: Dining: Cafeteria/Fast Food
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Compliance
Water Heater 1	Electric water heater	<= 12 [kW]	0.96	0.92			PASSES

PASSES

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compliance

None

Mandatory Requirements (as applicable)

Mandatory requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted with permission

Topic	Section	Component	Description	Yes	N/A	Exempt
1. To be checked by Designer or Engineer						
Insulation	C303.2	Envelope	Below-grade wall insulation installed per manufacturer's instructions.	☐	☐	☐
Insulation	C303.2	Envelope	Slab edge insulation installed per manufacturer's instructions.	☐	☐	☐
Insulation	C303.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.	☐	☐	☐
Insulation	C402.3	Envelope	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance >= 0.55 and thermal emittance >= 0.75 or 3-year-aged solar reflectance index >= 64.0.	☐	☐	☐
Fenestration	C402.4.4	Envelope	U-factor of opaque doors associated with the building thermal envelope meets requirements.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.2	Mechanical	HVAC fan motors not oversized beyond allowable limits.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.3(8) Table	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement meet those listed in Table C403.2.3(8)	☐	☐	☐
HVAC	C403.2.7	Mechanical	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	☐	☐	☐
SYSTEM_SPECIFIC	C403.3	Mechanical	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐	☐	☐
SYSTEM_SPECIFIC	C403.3.2	Mechanical	Economizer operation will not increase heating energy use during normal operation.	☐	☐	☐
SYSTEM_SPECIFIC	C403.3.4, C403.3.4.1, C403.3.4.2, C403.3.1	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.3.1	Mechanical	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat addition requirements.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Open-circuit cooling towers having water cooled chiller systems and multiple or vairable speed condenser pumps, are designed so that tower cells can run in parallel with larger of flow crtieria.	☐	☐	☐
SYSTEM_SPECIFIC	C404.2	Mechanical	Service water heating equipment meets efficiency requirements.	☐	☐	☐
Wattage	C405.3	Interior Lighting	Exit signs do not exceed 5 watts per face.	☐	☐	☐
2. To be checked by Plan Reviewer						
Plan Review	C103.2	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐	☐	☐

Plan Review	C103.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering st	☐	☐	☐
Plan Review	C103.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufact	☐	☐	☐
Plan Review	C103.2	Interior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided shoul	☐	☐	☐
Plan Review	C103.2	Exterior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided shoul	☐	☐	☐
Insulation	C402.2.5	Envelope	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	☐	☐	☐
Insulation	C402.2.6	Project	Radiant heating systems panels insulated to >=R-3.5 on face opposite space being heated.	☐	☐	☐
HVAC	C402.2.6	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐	☐	☐
Insulation	C402.2.6	Envelope	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐	☐	☐
Air Leakage	C402.5.7	Envelope	Vestibules are installed on all building entrances. Doors have self-closing devices.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.3	Mechanical	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐	☐	☐
HVAC	C403.2.13	Mechanical	Unenclosed spaces that are heated use only radiant heat.	☐	☐	☐
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.4	Mechanical	Zone isolation devices and controls installed where applicable.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.7	Mechanical	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.5	Mechanical	Hot water boilers supplying heat via one- or two-pipe systems include outdoor setback control.	☐	☐	☐
HVAC	C403.2.6.1	Mechanical	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.1.1	Mechanical	Hydronic and multizone HVAC system controls areVAV fans driven by mechanical or electrical variable speed drive per Table C403.4.1.1.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.1.3	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2	Mechanical	Temperature reset by representative building loads in pumping systems for chiller and boiler systems >500,000 Btu/h.	☐	☐	☐

SYSTEM_SPECIFIC	C403.4.2.3.2.1	Mechanical	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or cl	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.4	Mechanical	Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.5	Mechanical	System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.6	Mechanical	Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0 Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.3, C403.4.3.2	Mechanical	Fan systems with motors >=7.5 hp associated with heat rejection equipment to have capability to operate at 2/3 of full-speed and auto speed controls to control the leaving fluid temperature or condensing temp/pressure of heat rejection device.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.5	Mechanical	Multiple zone HVAC systems have supply air temperature reset controls.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.6	Mechanical	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	☐	☐	☐
SYSTEM_SPECIFIC	C404.2.1	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et Where multiple pieces of water-heating equipment serve the building wi	☐	☐	☐
SYSTEM_SPECIFIC	C404.4	Mechanical	All piping insulated in accordance with section details and Table C403.2.10.	☐	☐	☐
SYSTEM_SPECIFIC	C404.5, C404.5.1, C404.5.2	Mechanical	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐	☐	☐
SYSTEM_SPECIFIC	C404.6.3	Mechanical	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐	☐	☐
SYSTEM_SPECIFIC	C404.7	Mechanical	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving	☐	☐	☐
Wattage	C405.5.1	Exterior Lighting	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐	☐	☐
Plan Review	C405.6	Project	Group R-2 dwelling units have separate electrical meters.	☐	☐	☐
Plan Review	C406	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐	☐	☐
SYSTEM_SPECIFIC	C408.2.2.2	Mechanical	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	☐	☐	☐
SYSTEM_SPECIFIC	C408.2.2.2	Mechanical	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	☐	☐	☐

3. To be checked by Inspector

Insulation	C303.1	Envelope	Roof insulation installed per manufacturerâ€™s instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐	☐	☐
Insulation	C303.1	Envelope	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	☐	☐	☐
Fenestration	C303.1.3	Envelope	Fenestration products rated in accordance with NFRC.	☐	☐	☐
Fenestration	C303.1.3	Envelope	Fenestration products are certified as to performance labels or certificates provided.	☐	☐	☐
Insulation	C303.2, C402.2.4	Envelope	Floor insulation installed per manufacturer's instructions. Cavity or structural slab insulation installed in permanent contact with underside of decking or structural slabs.	☐	☐	☐
Insulation	C303.2.1	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐	☐	☐
Insulation	C303.2.1	Envelope	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	☐	☐	☐
Insulation	C402.1.3	Envelope	Non-swinging opaque doors have R-4.75 insulation.	☐	☐	☐
Insulation	C402.2.2	Envelope	Skylight curbs are insulated to the level of roofs with insulation above deck or R-5.	☐	☐	☐
Insulation	C402.2.2	Envelope	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.	☐	☐	☐
Air Leakage	C402.5	Envelope	Building envelope contains a continuous air barrier that has been tested and deemed to limit air leakage <= 0.40 cfm/ft2.	☐	☐	☐
Air Leakage	C402.5.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	☐	☐	☐
Air Leakage	C402.5.1.1	Envelope	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐	☐	☐
Air Leakage	C402.5.1.2.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability <= 0.004 cfm/ft2. Air barrier penetrations are sealed in an approved manner.	☐	☐	☐
Air Leakage	C402.5.1.2.2	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and average assembly air leakage <= 0.04 cfm/ft2. Air barrier penetrations are sealed in an approved manner.	☐	☐	☐
Air Leakage	C402.5.2, C402.5.4	Envelope	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐	☐	☐
Air Leakage	C402.5.3	Envelope	Where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening are located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope	☐	☐	☐
Air Leakage	C402.5.5, C403.2.4.3	Envelope	Stair and elevator shaft vents have motorized dampers that automatically close.	☐	☐	☐
Air Leakage	C402.5.5, C403.2.4.3	Envelope	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.	☐	☐	☐
Air Leakage	C402.5.6	Envelope	Weatherseals installed on all loading dock cargo doors.	☐	☐	☐

Air Leakage	C402.5.8	Envelope	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐	☐	☐
HVAC	C403.2.1	Mechanical	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.10	Mechanical	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	☐	☐	☐
HVAC	C403.2.3	Mechanical	HVAC equipment efficiency verified.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.3	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to Table C403.2.3(3).	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.1	Mechanical	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.1.1	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐	☐	☐
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 Â°F deadband.	☐	☐	☐
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 Â°F deadband.	☐	☐	☐
HVAC	C403.2.4.1.3	Mechanical	Temperature controls have setpoint overlap restrictions.	☐	☐	☐
HVAC	C403.2.4.2.1, C403.2.4.2.2	Mechanical	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.2.3	Mechanical	Systems include optimum start controls.	☐	☐	☐
HVAC	C403.2.4.5, C403.2.4.6	Mechanical	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	☐	☐	☐
HVAC	C403.2.6.2	Mechanical	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐	☐	☐
HVAC	C403.2.9	Mechanical	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.9.1.3	Mechanical	Ductwork operating >3 in. water column requires air leakage testing.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.1.2	Mechanical	VAV fans have static pressure sensors located so controller setpoint <=1.2 w.c..	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=15°F, allow operation in one mode for at least 4 hrs before changeover, and have rest controls to limit heating and cooling supply temperature to <=30 °F.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.3.3	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system >10 hp is off.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.5, C403.4.4.5.1-4	Mechanical	Zone controls can limit simultaneous heating and cooling and sequence heating and cooling to each zone.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.5	Mechanical	Condenser heat recovery system that can heat water to 85°F or provide 60% of peak heat rejection is installed for preheating of service hot water.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.6	Mechanical	Hot gas bypass limited to: <=240 kBtu/h - 50% capacity, >240 kBtu/h - 25% capacity	☐	☐	☐
SYSTEM_SPECIFIC	C404.3	Mechanical	Heat traps installed on non-circulating storage water tanks.	☐	☐	☐

SYSTEM_SPECIFIC	C404.3	Mechanical	Heat traps installed on supply and discharge piping of non-circulating systems.	☐	☐	☐
SYSTEM_SPECIFIC	C404.3	Mechanical	Heat traps installed on supply and discharge piping of non-circulating systems.	☐	☐	☐
SYSTEM_SPECIFIC	C404.6.1	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐	☐	☐
SYSTEM_SPECIFIC	C404.6.1, C404.6.2	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.1	Mechanical	Pool heaters are equipped with on/off switch and no continuously burning pilot light.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.2	Mechanical	Time switches are installed on all pool heaters and pumps.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.2	Mechanical	Time switches are installed on all pool heaters and pumps.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.3	Mechanical	Vapor retardant pool covers are provided for heated pools and permanently installed spas.	☐	☐	☐
Controls	C405.2.1	Interior Lighting	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐	☐	☐
Controls	C405.2.1	Interior Lighting	Occupancy sensors installed in required spaces.	☐	☐	☐
Controls	C405.2.1, C405.2.2.3	Interior Lighting	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐	☐	☐
Controls	C405.2.2.1	Interior Lighting	Automatic controls to shut off all building lighting installed in all buildings.	☐	☐	☐
Controls	C405.2.3	Interior Lighting	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐	☐	☐
Controls	C405.2.3, C405.2.3.1, C405.2.3.2	Interior Lighting	Primary sidelighted areas are equipped with required lighting controls.	☐	☐	☐
Controls	C405.2.3, C405.2.3.1, C405.2.3.3	Interior Lighting	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐	☐	☐
Controls	C405.2.4	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.	☐	☐	☐
Wattage	C405.2.4	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐	☐	☐
Controls	C405.2.5	Exterior Lighting	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐	☐	☐
Wattage	C405.4.1	Interior Lighting	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐	☐	☐
Mandatory Additional Eff	C406.4	Project	Enhanced digital lighting controls efficiency package: Interior lighting has following enhanced lighting controls in accordance with Section C405.2.2: Luminaires capable of continuous dimming and being addressed individually, <= 8 luminaires controlled in	☐	☐	☐
Mandatory Additional Eff	C406.6	Project	Dedicate outdoor air system efficiency package: Buildings with hydronic and/or multiple-zone HVAC systems are equipped with an independent ventilation system designed to provide >= 100-percent outdoor air to each individual occupied space, as specified by	☐	☐	☐

Mandatory Additional Eff	C406.7, C406.7.1	Project	Enhanced Service Water Heat System efficiency package. One of the following SWH system enhancements must satisfy 60 percent of hot water requirements, or 100 percent if the building otherwise complies with heat recovery per Section C403.4.5: Waste heat re	☐ ☐ ☐
HVAC	C408.2.2.1	Mechanical	Air outlets and zone terminal devices have means for air balancing.	☐ ☐ ☐
HVAC	C408.2.2.1	Mechanical	Air outlets and zone terminal devices have means for air balancing.	☐ ☐ ☐
Testing	C408.2.3.2	Mechanical	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐ ☐ ☐

4. To be checked by Inspector at Project Completion and Prior to Issuance of Certificate of Occupancy

Post Construction	C303.3, C408.2.5.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ ☐ ☐
Post Construction	C303.3, C408.2.5.3	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐ ☐ ☐
Fenestration	C402.4.2.2	Envelope	Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value > 90 percent unless designed to exclude direct sunlight.	☐ ☐ ☐
Post Construction	C408.2.1	Mechanical	Commissioning plan developed by registered design professional or approved agency.	☐ ☐ ☐
Post Construction	C408.2.3.1	Mechanical	HVAC equipment has been tested to ensure proper operation.	☐ ☐ ☐
Post Construction	C408.2.3.3	Mechanical	Economizers have been tested to ensure proper operation.	☐ ☐ ☐
Post Construction	C408.2.4	Mechanical	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐ ☐ ☐
Post Construction	C408.2.5.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐ ☐ ☐
Post Construction	C408.2.5.1	Interior Lighting	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐ ☐ ☐
Post Construction	C408.2.5.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems.	☐ ☐ ☐
Post Construction	C408.2.5.4	Mechanical	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐ ☐ ☐
Post Construction	C408.3	Interior Lighting	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐ ☐ ☐

EnergyGauge Summit® v6.00

INPUT DATA REPORT

Project Information

Project Name: 201805 011 CAA

Project Title: Hungry Howies 18-157

Address:

State: FL

Zip: 32038

Owner: Jim Cottingham

Orientation: 20 Deg Clockwise. Walls & Windows wil be rotated accordingly

Building Type: Dining: Cafeteria/Fast Food

Building Classification: New Finished building

No.of Stories: 1

GrossArea: 1080 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	Zone1	Lobby	CONDITIONED	304.1	1	304.1	☐
2	Zone2	Z2_101_OrderingServing	CONDITIONED	120.5	1	120.5	☐
3	Zone3	Kitchen	CONDITIONED	655.4	1	655.4	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multi plier	Total Area [sf]	Total Volume [cf]	
In Zone:	**Zone1**									
1	Z1 100	Lobby	Lobby (General) - Reception and Waiting	1.00	244.60	10.00	1	244.6	2446.0	☐
2	Z1 102	Toilet	Toilet and Washroom	1.00	59.50	10.00	1	59.5	595.0	☐
In Zone:	**Zone2**									
1	Z2 101	OrderingServing	Sales Area	1.00	120.50	10.00	1	120.5	1205.0	☐
In Zone:	**Zone3**									
1	Z3 103	Kitchen	Food Service - Kitchen	1.00	446.70	10.00	1	446.7	4467.0	☐
2	Z3 104	PrepArea	Food Service - Kitchen	1.00	208.70	10.00	1	208.7	2087.0	☐

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone: **Zone1**								
In Space: **Z1_100**								
1	Compact Fluorescent	General Lighting	1	155	155	Manual On/Off	1	☐
In Space: **Z1_102**								
1	Compact Fluorescent	General Lighting	1	55	55	Manual On/Off	1	☐
In Zone: **Zone2**								
In Space: **Z2_101**								
1	Compact Fluorescent	General Lighting	1	200	200	Manual On/Off	1	☐
In Zone: **Zone3**								
In Space: **Z3_103**								
1	Compact Fluorescent	General Lighting	1	440	440	Manual On/Off	1	☐
In Space: **Z3_104**								
1	Compact Fluorescent	General Lighting	1	205	205	Manual On/Off	1	☐

Walls (Walls will be rotated clockwise by building rotation value)

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Orientation	Conductance [Btu/hr. sf. F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:	**Zone1**											
1	Pr0Zo5Wa1	001Wall - Above Grade_MassWall_BlockFacade	100.00	10.00	1	1000.0	West-NorthWest	0.1148	6.743	66.38	8.7	☐
2	Pr0Zo5Wa1	001Wall - Above Grade_MassWall_BlockFacade	18.36	10.00	1	183.6	North-NorthEast	0.1148	6.743	66.38	8.7	☐
3	Pr0Zo5Wa1	001Wall - Above Grade_MassWall_BlockFacade	9.60	10.00	1	96.0	East-SouthEast	0.1148	6.743	66.38	8.7	☐
In Zone:	**Zone2**											
1	Pr0Zo5Wa1	001Wall - Above Grade_MassWall_BlockFacade	6.32	10.00	1	63.2	West-NorthWest	0.1148	6.743	66.38	8.7	☐
2	Pr0Zo5Wa1	001Wall - Above Grade_MassWall_BlockFacade	9.60	10.00	1	96.0	East-SouthEast	0.1148	6.743	66.38	8.7	☐
In Zone:	**Zone3**											
1	Pr0Zo5Wa1	001Wall - Above Grade_MassWall_BlockFacade	100.00	10.00	1	1000.0	West-NorthWest	0.1148	6.743	66.38	8.7	☐
2	Pr0Zo5Wa1	001Wall - Above Grade_MassWall_BlockFacade	9.60	10.00	1	96.0	East-SouthEast	0.1148	6.743	66.38	8.7	☐
3	Pr0Zo5Wa1	001Wall - Above Grade_MassWall_BlockFacade	18.36	10.00	1	183.6	North-NorthEast	0.1148	6.743	66.38	8.7	☐

Windows (Windows will be rotated clockwise by building rotation value)

No	Description	Orientation	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multi plier	Total Area [sf]

In Zone:	**Zone1**										
In Wall:	**East**										
9	Fixed	East-SouthEast	No	0.4000	0.25	0.76	6.00	6.00	1	36.0	
In Wall:	**North**										
4	Fixed	North-NorthEast	No	0.4000	0.25	0.76	12.00	6.00	1	72.0	
5	EntranceDoor	North-NorthEast	No	0.4000	0.25	0.76	3.00	8.00	1	24.0	
In Wall:	**West**										
4	Fixed	West-NorthWest	No	0.4000	0.25	0.76	6.00	6.33	1	38.0	
5	EntranceDoor	West-NorthWest	No	0.4000	0.25	0.76	3.00	8.00	2	48.0	
In Zone:	**Zone2**										
In Wall:	**East**										
5	Operable	East-SouthEast	No	0.4000	0.25	0.76	3.10	4.00	1	12.4	

Doors

	No	Description	Type	Shaded?	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Cond. [Btu/hr. sf. F]	Dens. [lb/cf]	Heat Cap. [Btu/sf. F]	R-Value [h.sf.F/Btu]	
In Zone:	**Zone3**												
In Wall:	**South**												
	1	Swinging	Solid core flush (2.25)	No	3.00	7.00	1	21.0	0.3504	0.00	0.00	2.85	

Roofs

	No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/hr. Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:	**Zone1**												
	1	AtticRoof	008Roof - JoistFramining	18.00	16.89	1	304.0	0.00	0.0266			37.6	
In Zone:	**Zone2**												
	1	AtticRoof	008Roof - JoistFramining	18.00	6.69	1	120.4	0.00	0.0266			37.6	
In Zone:	**Zone3**												
	1	AtticRoof	008Roof - JoistFramining	36.41	16.89	1	615.0	0.00	0.0266			37.6	

Skylights

	No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multiplier	Area [Sf]	Total Area [Sf]
In Zone:											
In Roof:											

Floors

	No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond. [Btu/hr. sf. F]	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]
In Zone:	**Zone1**										
	1	SlabFloor	Concrete floor, carpet and rubber pad	18.00	16.89	1	304.0	0.5987	9.33	140.00	1.67
In Zone:	**Zone2**										
	1	SlabFloor	Concrete floor, carpet and rubber pad	18.00	6.69	1	120.4	0.5987	9.33	140.00	1.67
In Zone:	**Zone3**										
	1	SlabFloor	Concrete floor, carpet and rubber pad	18.00	36.41	1	655.4	0.5987	9.33	140.00	1.67

Systems

System1 **System1** **Constant Volume Packaged Multizone System** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV
1	Cooling System	54600.00	14.00	11.60
2	Heating System	4600.00	1.00	
3	Air Handling System -Supply	2375.00	0.22	

System2	System2	Constant Volume Packaged Multizone System		No. Of Units 1
Component	**Category**	**Capacity**	**Efficiency**	**IPLV**
1	Cooling System	57200.00	14.00	11.60
2	Heating System	8300.00	1.00	
3	Air Handling System -Supply	2488.00	0.22	

System3	System3	Constant Volume Packaged Multizone System		No. Of Units 1
Component	**Category**	**Capacity**	**Efficiency**	**IPLV**
1	Cooling System	57500.00	14.00	11.60
2	Heating System	9000.00	1.00	
3	Air Handling System -Supply	2249.00	0.22	

Plant

Equipment	Category	Size	Inst.No	Eff.	IPLV

Water Heaters

	W-Heater Description	Capacity Cap.Unit	I/P Rt.	Efficiency	Loss
1	Electric water heater	40 [Gal]	[kW]	0.9600 [Ef]	[Btu/h]

Ext-Lighting

Description	Category	No. of Luminaires	Watts per Luminaire	Area/Len/No. of units [sf/ft/No]	Control Type	Wattage [W]

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
1EntranceDoor	User Defined	1	0.4000	0.2500	0.7600
2Fixed	User Defined	2	0.4000	0.2500	0.7600
3Operable	User Defined	2	0.4000	0.2500	0.7600

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thickness [ft]	Conductivity [Btu/h.ft.F]	Density [lb/cf]	SpecificHeat [Btu/lb.F]
151	Matl151	CONC HW, DRD, 140LB, 4IN	No	0.4403	0.3333	0.7570	140.00	0.2000
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300				
279	Matl279	Solid core flush (2.25")	Yes	2.8537				
95	Matl95	CONC BLOCK HW-4IN-HOLLOW	No	0.7107	0.3333	0.4690	101.00	0.2000
94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500
414	Matl414	R-8 generic Insulatrion	No	8.0000	0.1746	0.0218	0.30	0.2000

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1004	Concrete floor, carpet and rubber pad	No	No	0.60	9.33	140.00	1.7	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	151	CONC HW, DRD, 140LB, 4IN	0.3333	0.000	☐
2	178	CARPET W/RUBBER PAD		0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1058	Solid core flush (2.25)	No	Yes	0.35			2.9	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	279	Solid core flush (2.25")		0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1060	001Wall - Above Grade_MassWall_BlockFacade	No	No	0.11	6.74	66.38	8.7	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	95	CONC BLOCK HW-4IN-HOLLOW	0.3333	0.000	☐
2	414	R-8 generic Insulatrion	0.1746	0.000	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1067	008Roof - JoistFramining	No	Yes	0.03			37.6	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	94	BUILT-UP ROOFING, 3/8IN	3.5000	0.000	☐

Profiles

0	0	No Classification	No Classification		
	201	People	2	Fractional Null Schedule	
	202	Lighting	2	Fractional Null Schedule	
	203	Infiltration	2	Fractional Null Schedule	
	204	Equipment	2	Fractional Null Schedule	
	205	Sources	2	Fractional Null Schedule	
	206	HeatTemp	202	Set Point 55	
	207	CoolTemp	201	Set Point 99	
	208	Hot Water Schedule	2	Fractional Null Schedule	
	1,001	Heating Schedule	1	ON-OFF Null Schedule	
	1,002	Cooling Schedule	1	ON-OFF Null Schedule	
	1,003	Fan Operation Schedule	1	ON-OFF Null Schedule	
501	501	ACM-NonRes	ACM Nonres		
	201	People	519	ACM Nonres People	
	202	Lighting	507	ACM Nonres Lights	
	203	Infiltration	516	ACM Nonres Infiltration	
	204	Equipment	510	ACM Nonres Equipment	
	205	Sources	2	Fractional Null Schedule	
	206	HeatTemp	501	ACM Nonres Heating	
	207	CoolTemp	504	ACM Nonres Cooling	
	208	Hot Water Schedule	522	ACM Nonres Hot Water	
	1,001	Heating Schedule	410	Always ON	
	1,002	Cooling Schedule	410	Always ON	
	1,003	Fan Operation Schedule	513	ACM Nonres Fans	
597	597	ACM-Retail	ACM Retail		
	201	People	615	ACM Retail People	
	202	Lighting	603	ACM Retail Lights	
	203	Infiltration	612	ACM Retail Infiltration	

204	Equipment	606	ACM Retail Equipment
205	Sources	2	Fractional Null Schedule
206	HeatTemp	597	ACM Retail Heating
207	CoolTemp	600	ACM Retail Cooling
208	Hot Water Schedule	618	ACM Retail Hot Water
1,001	Heating Schedule	410	Always ON
1,002	Cooling Schedule	410	Always ON
1,003	Fan Operation Schedule	609	ACM Retail Fans

Schedules

1 1 On/Off ON-OFF Null Schedule

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr1	ShHr1	ShHr1	ShHr1	ShHr1	ShHr1	ShHr1	ShHr1

2 2 Fraction Fractional Null Schedule

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr2	ShHr2	ShHr2	ShHr2	ShHr2	ShHr2	ShHr2	ShHr2

44 44 Absolute SetPt78

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr179	ShHr179	ShHr179	ShHr179	ShHr179	ShHr179	ShHr179	ShHr179

45 45 Absolute Set Point 70

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr180	ShHr180	ShHr180	ShHr180	ShHr180	ShHr180	ShHr180	ShHr180

201 201 Absolute Set Point 99

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr201	ShHr201	ShHr201	ShHr201	ShHr201	ShHr201	ShHr201	ShHr201

202 202 Absolute Set Point 55

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr202	ShHr202	ShHr202	ShHr202	ShHr202	ShHr202	ShHr202	ShHr202

410 410 On/Off Always ON

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410	ShHr410

412 412 Absolute Florida Commercial Electric Rate

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
3/31/1989	ShHr413	ShHr413	ShHr413	ShHr413	ShHr413	ShHr415	ShHr415	ShHr415
10/31/1989	ShHr412	ShHr412	ShHr412	ShHr412	ShHr412	ShHr412	ShHr414	ShHr414
12/31/1989	ShHr413	ShHr413	ShHr413	ShHr413	ShHr413	ShHr415	ShHr415	ShHr415

501 501 Absolute ACM Nonres Heating

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr501	ShHr501	ShHr501	ShHr501	ShHr501	ShHr502	ShHr503	ShHr503

504 504 Absolute ACM Nonres Cooling

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr504	ShHr504	ShHr504	ShHr504	ShHr504	ShHr505	ShHr506	ShHr506

507 507 Fraction ACM Nonres Lights

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr507	ShHr507	ShHr507	ShHr507	ShHr507	ShHr508	ShHr509	ShHr509

510 510 Fraction ACM Nonres Equipment

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr510	ShHr510	ShHr510	ShHr510	ShHr510	ShHr511	ShHr512	ShHr512

513 513 On/Off ACM Nonres Fans

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr513	ShHr513	ShHr513	ShHr513	ShHr513	ShHr514	ShHr515	ShHr515

516 516 Fraction ACM Nonres Infiltration

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr516	ShHr516	ShHr516	ShHr516	ShHr516	ShHr517	ShHr518	ShHr518

519 519 Fraction ACM Nonres People

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr519	ShHr519	ShHr519	ShHr519	ShHr519	ShHr520	ShHr521	ShHr521

522 522 Fraction ACM Nonres Hot Water

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr522	ShHr522	ShHr522	ShHr522	ShHr522	ShHr523	ShHr524	ShHr524

597 597 Absolute ACM Retail Heating

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr597	ShHr597	ShHr597	ShHr597	ShHr597	ShHr598	ShHr599	ShHr599

600 600 Absolute ACM Retail Cooling

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr600	ShHr600	ShHr600	ShHr600	ShHr600	ShHr601	ShHr602	ShHr602

603 603 Fraction ACM Retail Lights

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr603	ShHr603	ShHr603	ShHr603	ShHr603	ShHr604	ShHr605	ShHr605

606 606 Fraction ACM Retail Equipment

Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr606	ShHr606	ShHr606	ShHr606	ShHr606	ShHr607	ShHr608	ShHr608

609 609			On/Off	ACM Retail Fans				
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr609	ShHr609	ShHr609	ShHr609	ShHr609	ShHr610	ShHr611	ShHr611
612 612			Fraction	ACM Retail Infiltration				
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr612	ShHr612	ShHr612	ShHr612	ShHr612	ShHr613	ShHr614	ShHr614
615 615			Fraction	ACM Retail People				
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr615	ShHr615	ShHr615	ShHr615	ShHr615	ShHr616	ShHr617	ShHr617
618 618			Fraction	ACM Retail Hot Water				
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr618	ShHr618	ShHr618	ShHr618	ShHr618	ShHr619	ShHr620	ShHr620
1,001 1,001			Absolute	Absolute null schedule				
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr10001	ShHr10001	ShHr10001	ShHr10001	ShHr10001	ShHr10001	ShHr10001	ShHr10001
1,002 1,002			Absolute	Absolute null schedule				
Hourly Sch. for:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Holiday
12/31/1989	ShHr10002	ShHr10002	ShHr10002	ShHr10002	ShHr10002	ShHr10002	ShHr10002	ShHr10002

Hourly Schedules

Id	Acronym	Type	Values							
						Hours 1 thru 8				
						Hours 9 - 16				
						Hours 17 - 24				
1	ShHr1	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
On-Off Null Schedule			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	ShHr2	Fraction	0	0	0	0	0	0	0	0
Fraction Null Schedule			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
3	ShHr3	Absolute	0	0	0	0	0	0	0	0
Absolute Null Schedule			0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
179	ShHr179	Absolute	78	78	78	78	78	78	78	78
Set point 78 F All Day			78	78	78	78	78	78	78	78
			78	78	78	78	78	78	78	78
180	ShHr180	Absolute	70	70	70	70	70	70	70	70
Set Point 70 F All Day			70	70	70	70	70	70	70	70
			70	70	70	70	70	70	70	70
201	ShHr201	Absolute	99	99	99	99	99	99	99	99
Set point 99			99	99	99	99	99	99	99	99
			99	99	99	99	99	99	99	99
202	ShHr202	Absolute	45	45	45	45	45	45	45	45
Set Point 55			45	45	45	45	45	45	45	45
			45	45	45	45	45	45	45	45
410	ShHr410	On/Off	ON	ON	ON	ON	ON	ON	ON	ON
Always On schedule			ON	ON	ON	ON	ON	ON	ON	ON
			ON	ON	ON	ON	ON	ON	ON	ON
411	ShHr411	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Always Off Schedule			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
			OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
412	ShHr412	Absolute	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
Florida Avg. Week Day Summer Elec			0.03804	0.03804	0.03804	0.0686	0.0686	0.0686	0.0686	0.0686
			0.0686	0.0686	0.0686	0.0686	0.0686	0.03804	0.03804	0.03804

413 ShHr413 Absolute	0.03804	0.03804	0.03804	0.03804	0.03804	0.0686	0.0686	0.0686
Florida Avg. Week Day Winter Electr	0.0686	0.0686	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
	0.03804	0.0686	0.0686	0.0686	0.0686	0.0686	0.03804	0.03804
414 ShHr414 Absolute	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
Florida Avg. Week End Summer Elec	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
415 ShHr415 Absolute	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
Florida Avg. Week End Winter Electri	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804	0.03804
501 ShHr501 Absolute	60	60	60	60	60	65	65	70
ACM Nonres Heating Weekday	70	70	70	70	70	70	70	70
	70	70	65	60	60	60	60	60
502 ShHr502 Absolute	60	60	60	60	60	65	65	65
ACM Nonres Heating Saturday	65	65	65	65	65	65	65	65
	60	60	60	60	60	60	60	60
503 ShHr503 Absolute	60	60	60	60	60	65	65	65
ACM Nonres Heating Sunday	65	65	65	65	65	65	65	65
	60	60	60	60	60	60	60	60
504 ShHr504 Absolute	77	77	77	77	77	73	73	73
ACM Nonres Cooling Weekday	73	73	73	73	73	73	73	73
	73	73	77	77	77	77	77	77
505 ShHr505 Absolute	77	77	77	77	77	73	73	73
ACM Nonres Cooling Saturday	73	73	73	73	73	73	73	73
	73	73	77	77	77	77	77	77
506 ShHr506 Absolute	77	77	77	77	77	73	73	73
ACM Nonres Cooling Sunday	73	73	73	73	73	73	73	73
	73	73	77	77	77	77	77	77
507 ShHr507 Fraction	0.05	0.05	0.05	0.05	0.1	0.2	0.4	0.7
ACM Nonres Lights Weekday	0.8	0.85	0.85	0.85	0.85	0.85	0.85	0.85
	0.85	0.8	0.35	0.1	0.1	0.1	0.1	0.1
508 ShHr508 Fraction	0.05	0.05	0.05	0.05	0.05	0.1	0.15	0.25
ACM Nonres Lights Saturday	0.25	0.25	0.25	0.25	0.25	0.25	0.2	0.2
	0.2	0.15	0.1	0.1	0.1	0.1	0.1	0.1
509 ShHr509 Fraction	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.15
ACM Nonres Lights Sunday	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
	0.15	0.1	0.1	0.1	0.05	0.05	0.05	0.05

510 ShHr510 Fraction	0.15	0.15	0.15	0.15	0.15	0.2	0.35	0.6
ACM Nonres Equipment Weekday	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	0.65	0.45	0.3	0.2	0.2	0.15	0.15	0.15
511 ShHr511 Fraction	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.2
ACM Nonres Equipment Saturday	0.25	0.25	0.25	0.25	0.25	0.25	0.2	0.2
	0.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15
512 ShHr512 Fraction	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.2
ACM Nonres Equipment Sunday	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.2	0.15	0.15	0.15	0.15	0.15	0.15	0.15
513 ShHr513 On/Off	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
ACM Nonres Fans Weekday	ON	ON	ON	ON	ON	ON	ON	ON
	ON	ON	ON	ON	OFF	OFF	OFF	OFF
514 ShHr514 On/Off	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
ACM Nonres Fans Saturday	ON	ON	ON	ON	ON	ON	ON	OFF
	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
515 ShHr515 On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
ACM Nonres Fans Sunday	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
516 ShHr516 Fraction	1	1	1	1	1	0	0	0
ACM Nonres Infiltration Weekday	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1
517 ShHr517 Fraction	1	1	1	1	1	0	0	0
ACM Nonres Infiltration Saturday	0	0	0	0	0	0	0	1
	1	1	1	1	1	1	1	1
518 ShHr518 Fraction	1	1	1	1	1	1	1	1
ACM Nonres Infiltration Sunday	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1
519 ShHr519 Fraction	0	0	0	0	0.05	0.1	0.25	0.65
ACM Nonres People Weekday	0.65	0.65	0.65	0.6	0.6	0.65	0.65	0.65
	0.65	0.4	0.25	0.1	0.05	0.05	0.05	0
520 ShHr520 Fraction	0	0	0	0	0	0	0.05	0.15
ACM Nonres People Saturday	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
	0.15	0.05	0.05	0.05	0	0	0	0
521 ShHr521 Fraction	0	0	0	0	0	0	0	0.05
ACM Nonres People Sunday	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	0.05	0.05	0.05	0.05	0	0	0	0

522 ShHr522 Fraction	0	0	0	0	0.1	0.1	0.5	0.5
ACM Nonres Hot Water Weekday	0.5	0.5	0.7	0.9	0.9	0.5	0.5	0.7
	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1
523 ShHr523 Fraction	0	0	0	0	0	0	0.1	0.2
ACM Nonres Hot Water Saturday	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	0.2	0.1	0.1	0.1	0	0	0	0
524 ShHr524 Fraction	0	0	0	0	0	0	0	0.1
ACM Nonres Hot Water Sunday	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	0	0	0
597 ShHr597 Absolute	60	60	60	60	60	63	65	68
ACM Retail Heating Weekday	70	70	70	70	70	70	70	70
	70	70	70	65	65	65	65	60
598 ShHr598 Absolute	60	60	60	60	60	63	65	68
ACM Retail Heating Saturday	70	70	70	70	70	70	70	70
	70	70	70	65	65	65	65	60
599 ShHr599 Absolute	60	60	60	60	60	63	65	68
ACM Retail Heating Sunday	70	70	70	70	70	70	70	70
	70	70	70	65	65	65	65	60
600 ShHr600 Absolute	80	80	80	80	80	74	74	74
ACM Retail Cooling Weekday	74	74	74	74	74	74	74	74
	74	74	74	74	74	74	80	80
601 ShHr601 Absolute	80	80	80	80	80	74	74	74
ACM Retail Cooling Saturday	74	74	74	74	74	74	74	74
	74	74	74	74	74	74	80	80
602 ShHr602 Absolute	80	80	80	80	80	74	74	74
ACM Retail Cooling Sunday	74	74	74	74	74	74	74	74
	74	74	74	74	74	74	80	80
603 ShHr603 Fraction	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.65
ACM Retail Lights Weekday	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	0.9	0.9	0.9	0.8	0.65	0.5	0.35	0.25
604 ShHr604 Fraction	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.65
ACM Retail Lights Saturday	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	0.9	0.9	0.9	0.8	0.65	0.5	0.35	0.25
605 ShHr605 Fraction	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.65
ACM Retail Lights Sunday	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	0.9	0.9	0.9	0.8	0.65	0.5	0.35	0.25

606 ShHr606 Fraction	0.2	0.2	0.2	0.2	0.2	0.25	0.3	0.45
ACM Retail Equip Weekday	0.6	0.75	0.75	0.75	0.7	0.75	0.75	0.75
	0.75	0.75	0.65	0.55	0.45	0.35	0.25	0.2
607 ShHr607 Fraction	0.2	0.2	0.2	0.2	0.2	0.25	0.3	0.45
ACM Retail Equip Saturday	0.6	0.75	0.75	0.75	0.7	0.75	0.75	0.75
	0.75	0.75	0.65	0.55	0.45	0.35	0.25	0.2
608 ShHr608 Fraction	0.2	0.2	0.2	0.2	0.2	0.25	0.3	0.45
ACM Retail Equip Sunday	0.6	0.75	0.75	0.75	0.7	0.75	0.75	0.75
	0.75	0.75	0.65	0.55	0.45	0.35	0.25	0.2
609 ShHr609 On/Off	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
ACM Retail Fans Weekday	ON	ON	ON	ON	ON	ON	ON	ON
	ON	ON	ON	ON	ON	OFF	OFF	OFF
610 ShHr610 On/Off	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
ACM Retail Fans Saturday	ON	ON	ON	ON	ON	ON	ON	ON
	ON	ON	ON	ON	ON	OFF	OFF	OFF
611 ShHr611 On/Off	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
ACM Retail Fans Sunday	ON	ON	ON	ON	ON	ON	ON	ON
	ON	ON	ON	ON	ON	OFF	OFF	OFF
612 ShHr612 Fraction	1	1	1	1	1	1	0	0
ACM Retail Infil Weekday	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	1	1
613 ShHr613 Fraction	1	1	1	1	1	1	0	0
ACM Retail Infil Saturday	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	1	1
614 ShHr614 Fraction	1	1	1	1	1	1	0	0
ACM Retail Infil Sunday	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	1	1
615 ShHr615 Fraction	0.05	0.05	0.05	0.05	0.05	0.05	0.15	0.25
ACM Retail People Weekday	0.4	0.55	0.75	0.75	0.75	0.75	0.75	0.75
	0.75	0.75	0.65	0.5	0.35	0.2	0.1	0.05
616 ShHr616 Fraction	0.05	0.05	0.05	0.05	0.05	0.05	0.15	0.25
ACM Retail People Saturday	0.4	0.55	0.75	0.75	0.75	0.75	0.75	0.75
	0.75	0.75	0.65	0.5	0.35	0.2	0.1	0.05
617 ShHr617 Fraction	0.05	0.05	0.05	0.05	0.05	0.05	0.15	0.25
ACM Retail People Sunday	0.4	0.55	0.75	0.75	0.75	0.75	0.75	0.75
	0.75	0.75	0.65	0.5	0.35	0.2	0.1	0.05

618 ShHr618 Fraction	0	0	0	0	0	0	0.1	0.1
ACM Retail SWH Weekday	0.5	0.5	0.7	0.9	0.9	0.5	0.5	0.7
	0.5	0.5	0.5	0.1	0.1	0	0	0
619 ShHr619 Fraction	0	0	0	0	0	0	0.1	0.1
ACM Retail SWH Saturday	0.5	0.5	0.7	0.9	0.9	0.5	0.5	0.7
	0.5	0.5	0.5	0.1	0.1	0	0	0
620 ShHr620 Fraction	0	0	0	0	0	0	0.1	0.1
ACM Retail SWH Sunday	0.5	0.5	0.7	0.9	0.9	0.5	0.5	0.7
	0.5	0.5	0.5	0.1	0.1	0	0	0
),001 ShHr10001 Absolute	0	0	0	0	0	0	0	0
Absolute Null Schedule	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
),002 ShHr10002 Absolute	0	0	0	0	0	0	0	0
Absolute Null Schedule	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0

Air System Sizing Summary for Zone1

Project Name: 201805_011_CAA
Prepared by: Emerc Engineering

05/22/2018
11:17AM

Air System Information

Air System Name	**Zone1**		Number of zones	**1**	
Equipment Class	**SPLT AHU**		Floor Area	**304.1**	ft²
Air System Type	**SZCAV**		Location	**Gainesville, Florida**	

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM	**Sum of space airflow rates**		Calculation Months	**Jan to Dec**	
Space CFM	**Individual peak space loads**		Sizing Data	**Calculated**	

Central Cooling Coil Sizing Data

Total coil load	**4.5**	Tons	Load occurs at	**Jun 1800**	
Total coil load	**54.6**	MBH	OA DB / WB	**91.1 / 76.5**	°F
Sensible coil load	**52.7**	MBH	Entering DB / WB	**75.2 / 61.5**	°F
Coil CFM at Jun 1800	**2375**	CFM	Leaving DB / WB	**54.6 / 53.3**	°F
Max block CFM	**2375**	CFM	Coil ADP	**52.3**	°F
Sum of peak zone CFM	**2375**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.966**		Resulting RH	**44**	%
ft²/Ton	**66.9**		Design supply temp.	**55.0**	°F
BTU/(hr-ft²)	**179.4**		Zone T-stat Check	**1 of 1**	OK
Water flow @ 10.0 °F rise	**N/A**		Max zone temperature deviation	**0.0**	°F

Central Heating Coil Sizing Data

Max coil load	**4.6**	MBH	Load occurs at	**Des Htg**	
Coil CFM at Des Htg	**2375**	CFM	BTU/(hr-ft²)	**15.0**	
Max coil CFM	**2375**	CFM	Ent. DB / Lvg DB	**69.6 / 71.3**	°F
Water flow @ 20.0 °F drop	**N/A**				

Supply Fan Sizing Data

Actual max CFM	**2375**	CFM	Fan motor BHP	**0.69**	BHP
Standard CFM	**2363**	CFM	Fan motor kW	**0.52**	kW
Actual max CFM/ft²	**7.81**	CFM/ft²	Fan static	**1.00**	in wg

Outdoor Ventilation Air Data

Design airflow CFM	**18**	CFM	CFM/person	**0.00**	CFM/person
CFM/ft²	**0.06**	CFM/ft²			

Ventilation Sizing Summary for Zone1

Project Name: 201805_011_CAA
Prepared by: Emerc Engineering

05/22/2018
11:17AM

1. Summary

Ventilation Sizing Method ..... **Sum of Space OA Airflows**
Design Ventilation Airflow Rate ..... **18** CFM

2. Space Ventilation Analysis Table

Zone Name / Space Name	Mult.	Floor Area (ft²)	Maximum Occupants	Maximum Supply Air (CFM)	Required Outdoor Air (CFM/person)	Required Outdoor Air (CFM/ft²)	Required Outdoor Air (CFM)	Required Outdoor Air (% of supply)	Uncorrected Outdoor Air (CFM)
Zone 1									
Z1_100_Lobby	1	244.6	0.0	2214.9	5.00	0.06	0.0	0.0	14.7
Z1_102_Toilet	1	59.5	0.0	41.8	5.00	0.06	0.0	0.0	3.6
Totals (incl. Space Multipliers)				**2256.7**					**18.2**

Zone Sizing Summary for Zone1

Project Name: 201805_011_CAA
Prepared by: Emerc Engineering

05/22/2018
11:17AM

Air System Information

Air System Name **Zone1**
Equipment Class ..... **SPLT AHU**
Air System Type ..... **SZCAV**

Number of zones **1**
Floor Area ..... **304.1** ft²
Location ..... **Gainesville, Florida**

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM ..... **Sum of space airflow rates**
Space CFM ..... **Individual peak space loads**

Calculation Months ..... **Jan to Dec**
Sizing Data ..... **Calculated**

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (MBH)	Design Air Flow (CFM)	Minimum Air Flow (CFM)	Time of Peak Load	Maximum Heating Load (MBH)	Zone Floor Area (ft²)	Zone CFM/ft²
Zone 1	48.3	2257	2257	Jun 1800	5.5	304.1	7.42

Zone Terminal Sizing Data

No Zone Terminal Sizing Data required for this system.

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (MBH)	Time of Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (ft²)	Space CFM/ft²
Zone 1							
Z1_100_Lobby	1	47.6	Jun 1800	2215	5.1	244.6	9.06
Z1_102_Toilet	1	0.9	Jul 1300	42	0.4	59.5	0.70

Air System Sizing Summary for Zone2

Project Name: 201805_011_CAA
Prepared by: Emerc Engineering

05/21/2018
05:41PM

Air System Information

Air System Name	**Zone2**		Number of zones	**1**	
Equipment Class	**SPLT AHU**		Floor Area	**120.5**	ft²
Air System Type	**SZCAV**		Location	**Gainesville, Florida**	

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM	**Sum of space airflow rates**		Calculation Months	**Jan to Dec**	
Space CFM	**Individual peak space loads**		Sizing Data	**Calculated**	

Central Cooling Coil Sizing Data

Total coil load	**4.8**	Tons	Load occurs at	**Jul 1700**	
Total coil load	**57.1**	MBH	OA DB / WB	**93.4 / 76.9**	°F
Sensible coil load	**55.5**	MBH	Entering DB / WB	**75.8 / 61.9**	°F
Coil CFM at Jul 1700	**2486**	CFM	Leaving DB / WB	**55.0 / 53.7**	°F
Max block CFM	**2486**	CFM	Coil ADP	**52.7**	°F
Sum of peak zone CFM	**2486**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.971**		Resulting RH	**44**	%
ft²/Ton	**25.3**		Design supply temp.	**55.0**	°F
BTU/(hr-ft²)	**474.1**		Zone T-stat Check	**0 of 1**	OK
Water flow @ 10.0 °F rise	**N/A**		Max zone temperature deviation	**0.2**	°F

Central Heating Coil Sizing Data

No central heating coil loads occurred during this calculation.

Supply Fan Sizing Data

Actual max CFM	**2486**	CFM	Fan motor BHP	**0.72**	BHP
Standard CFM	**2473**	CFM	Fan motor kW	**0.54**	kW
Actual max CFM/ft²	**20.63**	CFM/ft²	Fan static	**1.00**	in wg

Outdoor Ventilation Air Data

Design airflow CFM	**22**	CFM	CFM/person	**21.96**	CFM/person
CFM/ft²	**0.18**	CFM/ft²			

Ventilation Sizing Summary for Zone2

Project Name: 201805_011_CAA
Prepared by: Emerc Engineering

05/21/2018
06:01PM

1. Summary

Ventilation Sizing Method ..... **Sum of Space OA Airflows**
Design Ventilation Airflow Rate ..... **22** CFM

2. Space Ventilation Analysis Table

Zone Name / Space Name	Mult.	Floor Area (ft²)	Maximum Occupants	Maximum Supply Air (CFM)	Required Outdoor Air (CFM/person)	Required Outdoor Air (CFM/ft²)	Required Outdoor Air (CFM)	Required Outdoor Air (% of supply)	Uncorrected Outdoor Air (CFM)
Zone 1									
Z2_101_OrderingServing	1	120.5	1.0	2363.7	7.50	0.12	0.0	0.0	22.0
Totals (incl. Space Multipliers)				**2363.7**					**22.0**

Zone Sizing Summary for Zone2

Project Name: 201805_011_CAA
Prepared by: Emerc Engineering

05/21/2018
06:01PM

Air System Information

Air System Name **Zone2**
Equipment Class ..... **SPLT AHU**
Air System Type ..... **SZCAV**

Number of zones **1**
Floor Area ..... **120.5** ft²
Location ..... **Gainesville, Florida**

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM ..... **Sum of space airflow rates**
Space CFM ..... **Individual peak space loads**

Calculation Months ..... **Jan to Dec**
Sizing Data ..... **Calculated**

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (MBH)	Design Air Flow (CFM)	Minimum Air Flow (CFM)	Time of Peak Load	Maximum Heating Load (MBH)	Zone Floor Area (ft²)	Zone CFM/ft²
Zone 1	50.8	2364	2364	Jul 1800	0.9	120.5	19.62

Zone Terminal Sizing Data

No Zone Terminal Sizing Data required for this system.

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (MBH)	Time of Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (ft²)	Space CFM/ft²
Zone 1							
Z2_101_OrderingServing	1	50.8	Jul 1800	2364	0.9	120.5	19.62

Air System Sizing Summary for Zone3

Project Name: 201805_011_CAA
Prepared by: Emerc Engineering

05/21/2018
05:42PM

Air System Information

Air System Name	**Zone3**		Number of zones	**1**	
Equipment Class	**SPLT AHU**		Floor Area	**655.4**	ft²
Air System Type	**SZCAV**		Location	**Gainesville, Florida**	

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM	**Sum of space airflow rates**		Calculation Months	**Jan to Dec**	
Space CFM	**Individual peak space loads**		Sizing Data	**Calculated**	

Central Cooling Coil Sizing Data

Total coil load	**4.8**	Tons	Load occurs at	**Aug 1600**	
Total coil load	**57.2**	MBH	OA DB / WB	**94.0 / 77.0**	°F
Sensible coil load	**52.0**	MBH	Entering DB / WB	**75.9 / 62.1**	°F
Coil CFM at Aug 1600	**2231**	CFM	Leaving DB / WB	**54.2 / 52.9**	°F
Max block CFM	**2231**	CFM	Coil ADP	**51.8**	°F
Sum of peak zone CFM	**2231**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.910**		Resulting RH	**44**	%
ft²/Ton	**137.6**		Design supply temp.	**55.0**	°F
BTU/(hr-ft²)	**87.2**		Zone T-stat Check	**1 of 1**	OK
Water flow @ 10.0 °F rise	**N/A**		Max zone temperature deviation	**0.0**	°F

Central Heating Coil Sizing Data

Max coil load	**8.3**	MBH	Load occurs at	**Des Htg**	
Coil CFM at Des Htg	**2231**	CFM	BTU/(hr-ft²)	**12.6**	
Max coil CFM	**2231**	CFM	Ent. DB / Lvg DB	**67.5 / 70.9**	°F
Water flow @ 20.0 °F drop	**N/A**				

Supply Fan Sizing Data

Actual max CFM	**2231**	CFM	Fan motor BHP	**0.65**	BHP
Standard CFM	**2219**	CFM	Fan motor kW	**0.48**	kW
Actual max CFM/ft²	**3.40**	CFM/ft²	Fan static	**1.00**	in wg

Outdoor Ventilation Air Data

Design airflow CFM	**118**	CFM	CFM/person	**0.00**	CFM/person
CFM/ft²	**0.18**	CFM/ft²			

Ventilation Sizing Summary for Zone3

Project Name: 201805_011_CAA
Prepared by: Emerc Engineering

05/21/2018
06:02PM

1. Summary

Ventilation Sizing Method ..... **Sum of Space OA Airflows**
Design Ventilation Airflow Rate ..... **118** CFM

2. Space Ventilation Analysis Table

Zone Name / Space Name	Mult.	Floor Area (ft^2)	Maximum Occupants	Maximum Supply Air (CFM)	Required Outdoor Air (CFM/person)	Required Outdoor Air (CFM/ft^2)	Required Outdoor Air (CFM)	Required Outdoor Air (% of supply)	Uncorrected Outdoor Air (CFM)
Zone 1									
Z3_103_Kitchen	1	446.7	0.0	1651.8	7.50	0.18	0.0	0.0	80.4
Z3_104_PrepArea	1	208.7	0.0	484.7	7.50	0.18	0.0	0.0	37.6
Totals (incl. Space Multipliers)				**2136.4**					**118.0**

Zone Sizing Summary for Zone3

Project Name: 201805_011_CAA
Prepared by: Emerc Engineering

05/21/2018
06:02PM

Air System Information

Air System Name **Zone3**
Equipment Class ..... **SPLT AHU**
Air System Type ..... **SZCAV**

Number of zones **1**
Floor Area ..... **655.4** ft²
Location ..... **Gainesville, Florida**

Sizing Calculation Information

Zone and Space Sizing Method:

Zone CFM ..... **Sum of space airflow rates**
Space CFM ..... **Individual peak space loads**

Calculation Months ..... **Jan to Dec**
Sizing Data ..... **Calculated**

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (MBH)	Design Air Flow (CFM)	Minimum Air Flow (CFM)	Time of Peak Load	Maximum Heating Load (MBH)	Zone Floor Area (ft²)	Zone CFM/ft²
Zone 1	45.8	2136	2136	Aug 1700	5.6	655.4	3.26

Zone Terminal Sizing Data

No Zone Terminal Sizing Data required for this system.

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (MBH)	Time of Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (ft²)	Space CFM/ft²
Zone 1							
Z3_103_Kitchen	1	35.5	Jul 1700	1652	2.9	446.7	3.70
Z3_104_PrepArea	1	10.4	Aug 1600	485	2.7	208.7	2.32