Energy calcs.

Ted picked up plans 1-3-19
Returned 1-8-19

Columbia County New Building Permit Application

For Office Use Only Application # 1812-59 Date Received 12/20 By TC Permit # 37717 / 2741

Zoning Official JN Date 1-15 Flood Zone X Land Use I Zoning ILW

FEMA Map # _____ Elevation _____ MFE 99.70' River _____ Plans Examiner T.C. Date 1-15-19

Comments Fire Dept Letter Rec'd for SDP-1809 - NEED ELEC @ SLAB.

☑ NOC ☑ EH ☑ Deed or PA ☑ Site Plan ☐ State Road Info ☑ Well letter ☐ 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. 19-0086 OR City Water ☑ ONLY Fax _____

Applicant (Who will sign/pickup the permit) David Simque Phone 386-867-0294

Address PO Box 2962, Lake City, FL 32056

Owners Name Do It Yourself Lettering, Inc. Phone 386-466-9168

911 Address ~~184 SW Ring Ct, Lake City, FL 32025~~ 215 SW WINDSWEPT GLN, LAKE CITY, FL 32024

Contractors Name ~~Simque Construction LLC~~ David Phone 386-867-0294

Address PO Box 2962, Lake City, FL 32056

Contractor Email david@simque.com ***Include to get updates on this job.

Fee Simple Owner Name & Address Do It Yourself Lettering, Inc. PO Box 3057, Lake City, FL 32056

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Nick Geisler, 1758 NW Brown Rd, Lake City, FL 32055

Mortgage Lenders Name & Address BBVA 10060 Skinner Lake Drive, Jacksonville, FL 32246

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

Property ID Number 24-4S-16-03120-109 Estimated Construction Cost 421,370.00

Subdivision Name Windswept Industrial S/D Lot 9 Block ____ Unit 2 Phase ____

Driving Directions from a Major Road From CR 242 go North on Arrowhead Ter, then turn West on Windswept Glen

Construction of Office/Shop Facility X Commercial OR ____ Residential

Proposed Use/Occupancy Owner Occupied Number of Existing Dwellings on Property 0

Is the Building Fire Sprinkled? NO If Yes, blueprints included ____ 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 100 Side 16 Side 70 Rear 240

Number of Stories 1 Heated Floor Area 9000 Total Floor Area 9000 Acreage 1.73

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.)

Site & Development Plan approved SD sent email 12.21.18 & 1.3.19

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.

Brad Handy — **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 CGC1516765
Columbia County
Competency Card Number 529

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 20th **day of** December **20**18.

Personally known ___ **or Produced Identification** Florida Driver License

Leigh Ann Holland

State of Florida Notary Signature (For the Contractor)

SEAL:

LEIGH ANN HOLLAND
Notary Public - State of Florida
Commission # GG 110448
My Comm. Expires Jun 1, 2021

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

24-4S-16-03120-109

Clerk's Office Stamp

Inst: 201812026225 Date: 12/20/2018 Time: 2:09PM
Page 1 of 1 B: 1374 P: 2320, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
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: 215 SW Windswept Glen Lake City, FL 32024
2. General description of improvements: New Office Building
3. Owner Information or Lessee information if the Lessee contracted for the improvements:
   a) Name and address: Do It Yourself Lettering, Inc. PO Box 3057, Lake City, FL 32056
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property Owner
4. Contractor Information
   a) Name and address: David Simanek 518 SW Little Rd Lake City, FL 32024
   b) Telephone No.: 386-867-0294
5. Surety Information (if applicable, a copy of the payment bond is attached):
   a) Name and address: _____
   b) Amount of Bond: _____
   c) Telephone No.: _____
6. Lender
   a) Name and address: BBVA Compass Bank ATTN Jeff Cates 4th Floor 10060 Skinner Lake Drive, Jacksonville FL 32246
   b) Phone No. 904-564-8817
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: Brad Handy, 184 SW Ring Ct, Lake City FL 32025
   b) Telephone No.: 386-466-9168
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

Brad Handy, President
Printed Name and Signatory's Title/Office

The foregoing instrument was acknowledged before me, a Florida Notary, this 17th day of December, 2018, by:

Brad Handy (Name of Person) as President (Type of Authority) for Do It Yourself Lettering, INC. (name of party on behalf of whom instrument was executed)

Personally Known ____ OR Produced Identification ✓ Type FLDL H530 076 80225 0

Notary Signature _____

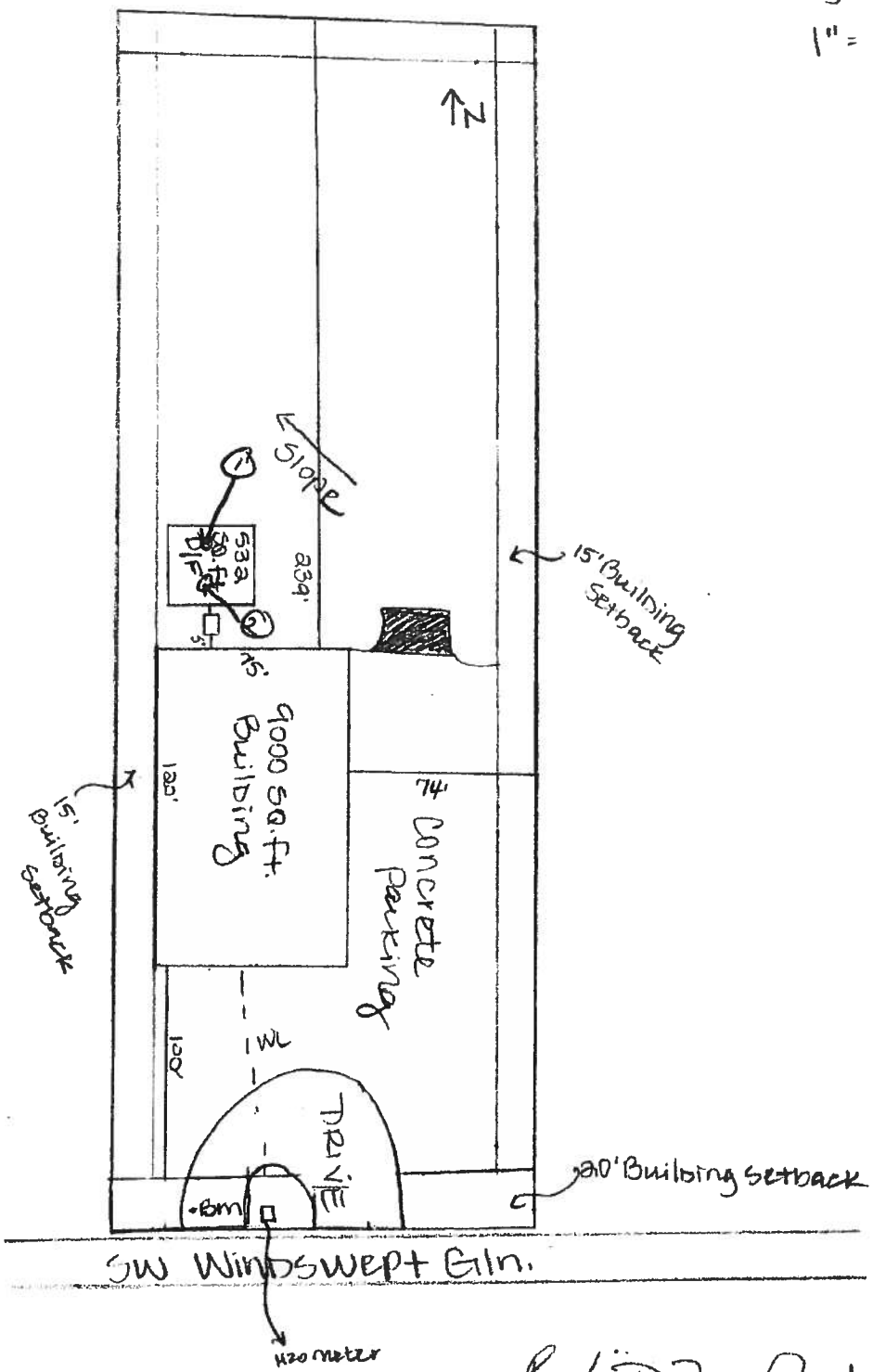
Notary Stamp or Seal:

HOLLY J. LAMBERT
Commission # GG 275383
Expires November 8, 2022
Bonded Thru Troy Fain Insurance 800-385-7019

~~DIY lettering~~

1" = 40'

19-0084



Rocky D 1/21/19

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

Permit Application Number 19-0086

DIY lettering ---------- PART II - SITEPLAN ----------

Scale: 1 inch = 40 feet.

See Attached

Notes: _____

Site Plan submitted by: Rocky D. [illegible] MASTER CONTRACTOR

Plan Approved ✓ Not Approved ____ Date 1/30/19

By [signature] ESI Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

19-0086

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

PERMIT NO. 1394741
DATE PAID: 1/25/19
FEE PAID: 310.68
RECEIPT #: 1394741

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

APPLICANT: Do It Yourself Lettering Inc

AGENT: ROCKY FORD, A & B CONSTRUCTION TELEPHONE: 386-497-2311

MAILING ADDRESS: 546 SW Dortch Street, FT. WHITE, FL, 32038

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: 9 BLOCK: NA SUB: Windswept Industrial PLATTED: 2001

PROPERTY ID #: 24-4S-16-03120-109 ZONING: _____ I/M OR EQUIVALENT: [Y / (N)]

PROPERTY SIZE: 1.73 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / (N)] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 215 Windswept Gln Lake City

DIRECTIONS TO PROPERTY: 47 South Right on CR 242 Right on SW Arrowhead Terr

Left onto Windswept Gln to address on Right

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	Commercial Bldg	0	9000	4 Restrooms
2				15 employees
3				2 loading bays

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

SIGNATURE: Rocky Ford DATE: 1/21/2019

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

Columbia County Property Appraiser

Jeff Hampton

2018 Tax Roll Year
updated 12/14/2018

Parcel: << 24-4S-16-03120-109 >>

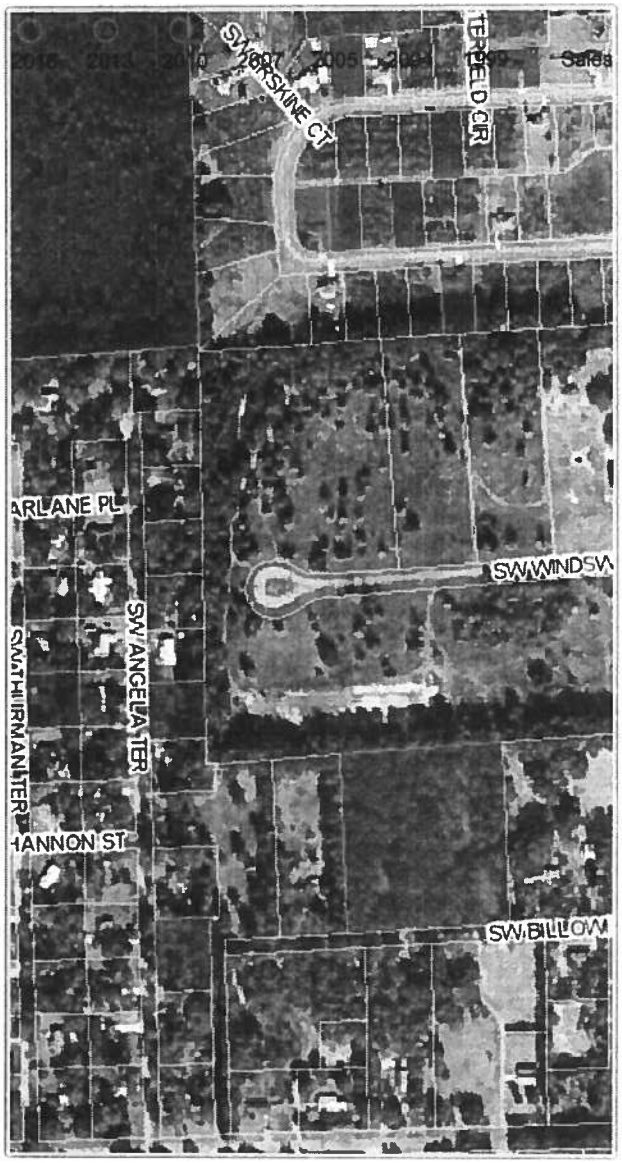
Aerial Viewer Pictometery Google Maps

Owner & Property Info

Result: 1 of 1

Owner	DO IT YOURSELF LETTERING INC P O BOX 3057 LAKE CITY, FL 32056		
Site	215 WINDSWEPT GLN, LAKE CITY		
Description*	LOT 9 WINDSWEPT INDUSTRIAL S/D UNIT 2. DESC AS FOLLOWS: COMM SW COR OF LOT 3 WINDSWEPT S/D PHS 1. RUN S 85 DEG W 165.33 FT. TO POB. CONT S 85 DEG W 165.33 FT, N 463.04 FT, E 165.00 FT, S 452.60 FT TO POB. 1066-975, WD 1369-1795,		
Area	1.73 AC	S/T/R	24-4S-16
Use Code**	VACANT IND (004000)	Tax District	2

*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.



Property & Assessment Values

2018 Certified Values		2019 Working Values	
Mkt Land (1)	$56,740	Mkt Land (1)	$56,740
Ag Land (0)	$0	Ag Land (0)	$0
Building (0)	$0	Building (0)	$0
XFOB (0)	$0	XFOB (0)	$0
Just	$56,740	Just	$56,740
Class	$0	Class	$0
Appraised	$56,740	Appraised	$56,740
SOH Cap [?]	$0	SOH Cap [?]	$0
Assessed	$56,740	Assessed	$56,740
Exempt	$0	Exempt	$0
Total Taxable	county:$56,740 city:$56,740 other:$56,740 school:$56,740	Total Taxable	county:$56,740 city:$56,740 other:$56,740 school:$56,740

Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
9/28/2018	$106,300	1369/1795	WD	V	Q	01
11/28/2005	$104,100	1066/0975	TR	V	Q	

Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
NONE						

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Florida Department of State

.org

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

Detail by Entity Name

Florida Profit Corporation
DO IT YOURSELF LETTERING, INC.

Filing Information

Document Number	P10000101094
FEI/EIN Number	27-4117733
Date Filed	12/15/2010
State	FL
Status	ACTIVE

Principal Address

184 SW Ring Court
LAKE CITY, FL 32025

Changed: 02/04/2014

Mailing Address

PO BOX 3057
LAKE CITY, FL 32056

Registered Agent Name & Address

HANDY, BRADLEY
184 SW Ring Court
LAKE CITY, FL 32025

Address Changed: 02/10/2017

Officer/Director Detail

Name & Address

Title PSTD

HANDY, BRADLEY
PO BOX 3057
LAKE CITY, FL 32056

CITY OF LAKE CITY
Florida's Gateway Est. 1859

November 28, 2018

Do It yourself Lettering, Inc.
Brad Handy
PO BOX 3057
Lake City, FL 32056

RE: Service Availability Letter

To Whom It May Concern,

Thank you for your inquiry regarding the availability of city utilities. The City of Lake City has potable water available to tap into at 215 SW Windswept Glen, Parcel 24-4S-16-03120-109.

This availability response does not represent the City of Lake City's commitment for or reservation of capacity. In accordance with the City of Lake City's policies and procedures, commitment to serve is made only upon the City of Lake City's approval of your application for service and receipt of your payment of all applicable fees.

If you have any questions, please feel free to contact me at (386) 719-5786 during our normal business hours of 8:00 am to 4:30 pm, Monday through Friday. I will be happy to assist you.

Sincerely,

Shasta M. Pelham

Shasta Pelham
Utility Service Coordinator

Brian Scott
Director of Distribution and Collections

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT # 1812-59 JOB NAME Do it Yourself Lettering, Inc

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 [V] CC# 724	Print Name Lynn Rainbolt Signature Lynn Rainbolt Company Name: Rainbolt Tech Services License #: EC13001835 Phone #: 386-867-1004	Need: Lic, Liab, W/C, EX, DE
MECHANICAL/ A/C [V] CC# 1611	Print Name Ron Durham Signature Ron Durham Company Name: Advantage Air License #: CAC 1815074 Phone #: 386-205-6131	Need: Lic, Liab, W/C, EX, DE
PLUMBING/ GAS [V] CC# 623	Print Name Mark Gansko Signature Mark Company Name: Express Plumbing License #: CFC 1428040 Phone #: 386-623-0269	Need: Lic, Liab, W/C, EX, DE
ROOFING [V] CC# 529	Print Name David Simque Signature David Simque Company Name: Simque Construction LLC License #: CCC 1516165 Phone #: 386-867-0294	Need: Lic, Liab, W/C, EX, DE
SHEET METAL [ ] CC#	Print Name NA Signature Company Name: License #: Phone #:	Need: Lic, Liab, W/C, EX, DE
FIRE SYSTEM/ SPRINKLER [ ] CC#	Print Name NA Signature Company Name: License#: Phone #:	Need: Lic, Liab, W/C, EX, DE
SOLAR [ ] CC#	Print Name NA Signature Company Name: License #: Phone #:	Need: Lic, Liab, W/C, EX, DE
STATE SPECIALTY [ ] CC#	Print Name NA 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:	1/23/2019 11:16:42 AM
Address:	215 SW WINDSWEPT Gln
City:	LAKE CITY
State:	FL
Zip Code	32024
Parcel ID	03120-109

REMARKS: Address Verification.

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

COLUMBIA COUNTY FIRE RESCUE

Life Safety Services

P.O. BOX 1529 Lake City, Florida 32056
Office (386) 754-7057 Fax (386) 754-7064

Fire Inspector

January 8, 2019

TO: Troy Crews
Columbia County Building and Zoning

FROM: Josh Wehinger
Florida State Fire Inspector # 180649

RE: New construction of DYI Lettering, Application # 1812-59

A plan review was performed on the proposed new construction of building for DIY Lettering, located at 215 Windswept Glen , Lake City, Florida 32025. This Building was classified under Chapter 38 Business of the Florida Fire Prevention Code, 2012 Fifth Edition. I recommend Approval of the building with the following conditions;
Pending:

- 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*

Sincerely,

Joshua Wehinger

December 12, 2018

VIA ELECTRONIC MAIL

Brad Handy
Do It Yourself Lettering, Inc.
184 Ring Court
Lake City, Fl 32025

Re: Site & Development Plan (SDP 18 09) "Do It Yourself Lettering"
Approval Letter

Dear Mr. Handy,

Columbia County has reviewed the Minor Site & Development Application you submitted in accordance with Section 14.13.6 "Minor Site and Development Plan Approval" of the Land Development Regulations ("LDRs"). The Minor Site and Development Plan Application, SDP 18 09, has been found in compliance with the County's Comprehensive Plan and Land Development Regulations and is hereby approved.

If you have any questions, please do not hesitate to contact me at bstubbs@columbiacountyfla.com or (386) 754-7119.

Sincerely,

Brandon M. Stubbs
County Planner/LDR Admin.

DIY LETTERING

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

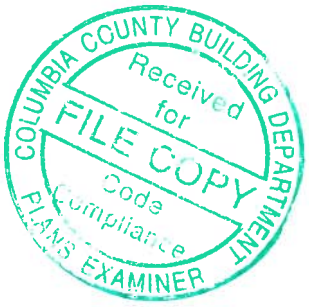
EnergyGauge Summit® Fla/Com-2017, Effective Date: Dec 31, 2017
IECC 2015 - Total Building Performance Compliance Option

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:	DIY Lettering	**Description:**	DIY Lettering
Owner:	DIY Lettering		
Address1:	Windswept Glen	**City:**	Lake City
Address2:		**State:**	FL
		Zip:	32024
Type:	Office	**Class:**	New Finished building
Jurisdiction:	LAKE CITY, COLUMBIA COUNTY, FL (221200)		
Conditioned Area:	8742 SF	**Conditioned & UnConditioned Area:**	8742 SF
No of Stories:	1	**Area entered from Plans**	8742 SF
Permit No:	0	**Max Tonnage**	12.4
		If different, write in:	12.5

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in $)	6,132.0	6,210.0	**PASSED**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
HVAC SYSTEM			**PASSES**
PLANT			**No Entry**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**PASSES**
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: Ronald Miller

Date: 12/20/18

Building Official: _____

Date: _____

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

Owner Agent: _____

Date: _____

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

Architect:	Nicholas Paul Geisler	Reg No:	AR0007005
Electrical Designer:	Nicholas Paul Geisler	Reg No:	AR0007005
Lighting Designer:	Nicholas Paul Geisler	Reg No:	AR0007005
Mechanical Designer:	Nicholas Paul Geisler	Reg No:	AR0007005
Plumbing Designer:	Nicholas Paul Geisler	Reg No:	AR0007005

(*) 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.

Ronald E Miller Jr
Certified Energy Rater No. 1494

Project: DIY Lettering
Title: DIY Lettering
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	*391.90*	*466.10*
	$6,132	*$7,306*
ELECTRICITY(MBtu/kW h/$)	391.90	466.10
	114828	136561
	$6,132	*$7,306*
AREA LIGHTS	91.10	100.70
	26679	29508
	$1,425	*$1,579*
MISC EQUIPMT	127.70	127.70
	37403	37403
	$1,997	*$2,001*
PUMPS & MISC	0.10	0.10
	36	41
	$2	*$2*
SPACE COOL	115.00	106.80
	33695	31300
	$1,799	*$1,675*
SPACE HEAT	5.50	17.00
	1625	4975
	$87	*$266*
VENT FANS	52.50	113.80
	15390	33334
	$822	*$1,783*

Credits Applied: None
Passing Criteria = 6210
Design (including any credits) = 6132
Passing requires Proposed Building cost to be at most 85% of Baseline cost. This Proposed Building is at 83.9%

PASSES

Project: DIY Lettering
Title: DIY Lettering
Type: Office
(WEA File: FL_JACKSONVILLE_INTL_ARPT.tm3)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Ext Light 1	Walk way less than 10 feet wide	Yes	0.80	195.0	156	200

Tradable Surfaces: 200 (W) Allowance for Tradable: 906 (W) **PASSES**
All External Lighting: 200 (W)
Complicance check includes a excess/Base allowance of 750.00(W)

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Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compli-ance
Office	17	Office - Enclosed	1,210	1	1	PASSES
Restroom 1	6	Toilet and Washroom	41	1	1	PASSES
Restroom 2	6	Toilet and Washroom	41	1	1	PASSES
Restroom 3	6	Toilet and Washroom	41	1	1	PASSES
Restroom 4	6	Toilet and Washroom	41	1	1	PASSES
Hallway	5	Corridor	104	1	1	PASSES
Production Center	17	Office - Enclosed	7,264	3	3	PASSES

PASSES

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System Report Compliance

AC-1/2 12.5 Packaged DX Unit — Constant Volume Packaged System — No. of Units 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Air Cooled 135000 to 240000 Btu/h Clg Capacity	148930	11.00	11.00	12.90	12.40	PASSES
Heating System	Electric Furnace	112629	1.00	1.00			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	5000	0.43	0.82			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Comp liance

None

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Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Comp liance
Water Heater 1	Electric water heater	<= 12 [kW]	0.97	0.94			PASSES

PASSES

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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
Heating System (Steam, Steam Condensate, & Hot Water)	0.75	False	110.00	0.28	1.00	0.50	**PASSES**

PASSES

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. Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.6	Mechanical	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 >=15ºF, 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 ºF.	☐	☐	☐
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 85ºF 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	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	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	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: DIY Lettering
Project Title: DIY Lettering
Address: Windswept Glen

State: FL
Zip: 32024

Owner: DIY Lettering

Orientation: 0 Deg Clockwise. Walls & Windows will be rotated accordingly
Building Type: Office
Building Classification: New Finished building

No.of Stories: 1
GrossArea: 8742 SF

Zones

No	Acronym	Description	Type	Area [sf]	Multiplier	Total Area [sf]	
1	DIY Lettering	Zone 1	CONDITIONED	8742.0	1	8742.0	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Multiplier	Total Area [sf]	Total Volume [cf]

In Zone:	**DIY Lettering**									
1	Office	Zo0Sp1	Office - Enclosed	1.00	1210.00	14.00	1	1210.0	16940.0	☐
2	Restroom 1	Zo0Sp2	Toilet and Washroom	1.00	41.00	9.00	1	41.0	369.0	☐
3	Restroom 2	Zo0Sp2	Toilet and Washroom	1.00	41.00	9.00	1	41.0	369.0	☐
4	Restroom 3	Zo0Sp2	Toilet and Washroom	1.00	41.00	9.00	1	41.0	369.0	☐
5	Restroom 4	Zo0Sp2	Toilet and Washroom	1.00	41.00	9.00	1	41.0	369.0	☐
6	Hallway	Zo0Sp2	Corridor	1.00	104.00	9.00	1	104.0	936.0	☐
7	Production Cer	Zo0Sp1	Office - Enclosed	1.00	7264.00	14.00	1	7264.0	101696.0	☐

Lighting

	No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone:	**DIY Lettering**								
In Space:	**Office**								
	1	LED	General Lighting	18	40	720	Occupancy sensor without Daylighting	1	☐
	2	LED	Exit Sign	1	12	12	Security (continuous)	0	☐
	3	LED	General Lighting	4	6	24	Security (continuous)	0	☐
In Space:	**Restroom 1**								
	1	LED	General Lighting	1	14	14	Occupancy sensor without Daylighting	1	☐
In Space:	**Restroom 2**								
	1	LED	General Lighting	1	14	14	Occupancy sensor without Daylighting	1	☐
In Space:	**Restroom 3**								
	1	LED	General Lighting	1	14	14	Occupancy sensor without Daylighting	1	☐
In Space:	**Restroom 4**								
	1	LED	General Lighting	1	14	14	Occupancy sensor without Daylighting	1	☐
In Space:	**Hallway**								
	1	LED	General Lighting	2	14	28	Occupancy sensor without Daylighting	1	☐

In Space: Production Center								
1	LED	General Lighting	65	120	7800	Occupancy sensor without Daylighting	3	☐
2	LED	Exit Sign	3	12	36	Security (continuous)	0	☐
3	LED	General Lighting	6	6	36	Security (continuous)	0	☐

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:	**DIY Lettering**											
1	Pr0Zo1Wa1	Metal siding/2x4@24"+R11Batt/5/8"Gyp	73.67	14.00	1	1031.4	South	0.0920	1.072	19.38	10.9	☐
2	Pr0Zo1Wa1	Metal siding/2x4@24"+R11Batt/5/8"Gyp	118.67	14.00	1	1661.4	East	0.0920	1.072	19.38	10.9	☐
3	Pr0Zo1Wa1	Metal siding/2x4@24"+R11Batt/5/8"Gyp	73.67	14.00	1	1031.4	North	0.0920	1.072	19.38	10.9	☐
4	Pr0Zo1Wa1	Metal siding/2x4@24"+R11Batt/5/8"Gyp	118.67	14.00	1	1661.4	West	0.0920	1.072	19.38	10.9	☐

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: DIY Lettering											
In Wall: East											
1	Pr0Zo1Wa1Wi1	East	No	0.6000	0.59	0.64	3.00	5.00	5	75.0	☐
2	Pr0Zo1Wa1Wi2	East	No	0.6000	0.59	0.64	3.00	6.67	2	40.0	☐
In Wall: North											
1	Pr0Zo1Wa1Wi1	North	No	0.6000	0.59	0.64	3.00	5.00	3	45.0	☐
In Wall: South											
1	Pr0Zo1Wa1Wi1	South	No	0.6000	0.59	0.64	3.00	5.00	3	45.0	☐

	2	Pr0Zo1Wa1Wi2	South	No	0.6000	0.59	0.64	3.00	6.67	3	60.0	
	3	Pr0Zo1Wa1Wi3	South	No	0.6000	0.59	0.64	10.00	10.00	2	200.0	
In Wall:	**West**											
	1	Pr0Zo1Wa1Wi1	West	No	0.6000	0.59	0.64	3.00	5.00	3	45.0	

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:												
In Wall:												

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:	**DIY Lettering**											
	1	Pr0Zo1Rf1	Mtl Bldg Roof/R-19 Batt	874.20	10.00	1	8742.0	0.00	0.0492	1.34	9.49	20.3

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:	DIY Lettering										
1	Pr0Zo1Fl1	1 ft. soil, concrete floor, carpet and rubber pad	874.20	10.00	1	8742.0	0.2681	34.00	113.33	3.73	☐

Systems

AC-1/2 **12.5 Packaged DX Unit** **Constant Volume Packaged System** **No. Of Units 1**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	148930.00	11.00	12.90	☐
2	Heating System	112629.00	1.00		☐
3	Air Handling System -Supply	5000.00	0.43		☐

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	20	[Gal]	2 [kW]	0.9700 [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]	
1	Ext Light 1	Walk way less than 10 feet wide	5	40	195.00	Astronomical Timer Co	200.00	☐

Piping

No	Type	Operating Temperature [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?	
1	Heating System (Steam, Steam Condensate, & Hot Water)	110.00	0.28	0.75	1.00	No	☐

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT	
ASHULDblClrWd-Vy-Fg frm	User Defined	2	0.6000	0.5900	0.6400	☐

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]	
187	Matl187	GYP OR PLAS BOARD,1/2IN	No	0.4533	0.0417	0.0920	50.00	0.2000	☐
178	Matl178	CARPET W/RUBBER PAD	Yes	1.2300					☐
265	Matl265	Soil, 1 ft	No	2.0000	1.0000	0.5000	100.00	0.2000	☐

48	Matl48	6 in. Heavyweight concrete	No	0.5000	0.5000	1.0000	140.00	0.2000	☐
23	Matl23	6 in. Insulation	No	20.0000	0.5000	0.0250	5.70	0.2000	☐
4	Matl4	Steel siding	No	0.0002	0.0050	26.0000	480.00	0.1000	☐
271	Matl271	2x4@24" oc + R11 Batt	No	10.4179	0.2917	0.0280	7.11	0.2000	☐
94	Matl94	BUILT-UP ROOFING, 3/8IN	No	0.3366	0.0313	0.0930	70.00	0.3500	☐

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]	
1055	Metal siding/2x4@24"+R11Batt/5/8"Gyp	No	No	0.09	1.07	19.38	10.9	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	4	Steel siding	0.0050	0.000	☐
2	271	2x4@24" oc + R11 Batt	0.2917	0.000	☐
3	187	GYP OR PLAS BOARD,1/2IN	0.0417	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]	
1056	Mtl Bldg Roof/R-19 Batt	No	No	0.05	1.34	9.49	20.3	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	94	BUILT-UP ROOFING, 3/8IN	0.0313	0.000	☐
2	23	6 in. Insulation	0.5000	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]	
1057	1 ft. soil, concrete floor, carpet and rubber pad	No	No	0.27	34.00	113.33	3.7	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	265	Soil, 1 ft	1.0000	0.000	☐
2	48	6 in. Heavyweight concrete	0.5000	0.000	☐
3	178	CARPET W/RUBBER PAD		0.000	☐

DIY Lettering

Location	**Windswept Glen Lake City FL 32024**
Building owner	**DIY Lettering**
Program user	**Ron Miller**
Company	**Green Engineering Solutions**
Comments	

By	**AEC**
Dataset name	**D:\Projects\Green Engineering Solutions\2018\Current\DIY\DIY.trc**

Calculation time	**03:47 PM on 12/20/2018**
TRACE® 700 version	**6.2.10**

Location	**Gainesville, Florida**	
Latitude	**29.0**	**deg**
Longitude	**82.0**	**deg**
Time Zone	**5**	
Elevation	**155**	**ft**
Barometric pressure	**29.7**	**in. Hg**
Air density	**0.0756**	**lb/cu ft**
Air specific heat	**0.2444**	**Btu/lb·°F**
Density-specific heat product	**1.1087**	**Btu/h·cfm·°F**
Latent heat factor	**4,880.3**	**Btu·min/h·cu ft**
Enthalpy factor	**4.5356**	**lb·min/hr·cu ft**
Summer design dry bulb	**96**	**°F**
Summer design wet bulb	**77**	**°F**
Winter design dry bulb	**31**	**°F**
Summer clearness number	**0.95**	
Winter clearness number	**0.95**	
Summer ground reflectance	**0.20**	
Winter ground reflectance	**0.20**	
Carbon Dioxide Level	**400**	**ppm**

Design simulation period	**January - December**
Cooling load methodology	**TETD-TA1**
Heating load methodology	**UATD**

System Checksums

By AEC

AC-1

Single Zone

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 16
Outside Air: OADB/WB/HR: 96 / 77 / 113

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	38,805	0	38,805	13
Glass Solar	4,255	0	4,255	1
Glass/Door Cond	2,930	0	2,930	1
Wall Cond	14,980	0	14,980	5
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0	0	0	0
Infiltration	0		0	0
Sub Total ==>	60,971	0	60,971	21
Internal Loads				
Lights	59,673	14,918	74,591	26
People	6,000	0	6,000	2
Misc	88,689	0	88,689	30
Sub Total ==>	154,362	14,918	169,280	58
Ceiling Load	0	0	0	0
Ventilation Load	0	0	61,973	21
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		0	0	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Underflr Sup Ht Pkup			0	0
Supply Air Leakage		0	0	0
Grand Total ==>	215,332	14,918	292,224	100.00

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	38,867	18
Glass Solar	4,380	2
Glass/Door Cond	2,840	1
Wall Cond	14,918	7
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	61,005	29
Internal Loads		
Lights	59,673	28
People	3,000	1
Misc	88,689	42
Sub Total ==>	151,362	71
Ceiling Load	0	0
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Ov/Undr Sizing		0
Exhaust Heat		0
OA Preheat Diff.		0
RA Preheat Diff.		0
Additional Reheat		0
Underflr Sup Ht Pkup		0
Supply Air Leakage		0
Grand Total ==>	212,366	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 31

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-15,969	-15,969	20.69
Glass Solar	0	0	0.00
Glass/Door Cond	-5,664	-5,664	7.34
Wall Cond	-12,306	-12,306	15.95
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0
Infiltration	0	0	0.00
Sub Total ==>	-33,940	-33,940	43.98
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-43,238	56.02
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-33,940	-77,178	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	73.2
Ra Plenum	75.0	70.0
Return	76.6	70.0
Ret/OA	78.6	65.9
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	9,578	9,578
Terminal	9,578	9,578
Main Fan	9,578	9,578
Sec Fan	0	0
Nom Vent	1,000	1,000
AHU Vent	1,000	1,000
Infil	0	0
MinStop/Rh	0	0
Return	8,578	8,578
Exhaust	0	0
Rm Exh	1,000	1,000
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	10.4	10.4
cfm/ft²	1.10	1.10
cfm/ton	393.30	
ft²/ton	358.98	
Btu/hr·ft²	33.43	-8.83
No. People	12	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	24.4	292.2	250.2	9,578	78.6	63.2	62.5	55.0	52.7	56.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	24.4	292.2								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	8,742		
Part	0		
Int Door	0		
ExFlr	0		
Roof	8,742	0	0
Wall	5,187	259	5
Ext Door	260	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-77.2	9,578	65.9	73.2
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-77.2			

Project Name: DIY Lettering
Dataset Name: DIY.trc

Room Checksums

By AEC

Hallway

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 14
Outside Air: OADB/WB/HR: 96 / 76 / 108

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	429	0	429	18
Glass Solar	0	0	0	0
Glass/Door Cond	0	0	0	0
Wall Cond	320	0	320	14
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0	0	0	0
Infiltration	0		0	0
Sub Total ==>	749	0	749	32
Internal Loads				
Lights	710	177	887	38
People	0	0	0	0
Misc	710	0	710	30
Sub Total ==>	1,420	177	1,597	68
Ceiling Load	0	0	0	0
Ventilation Load	0	0	0	0
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		0	0	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Underflr Sup Ht Pkup			0	0
Supply Air Leakage		0	0	0
Grand Total ==>	2,169	177	2,346	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 14
OADB: 96

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	429	20
Glass Solar	0	0
Glass/Door Cond	0	0
Wall Cond	320	15
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	749	35
Internal Loads		
Lights	710	33
People	0	0
Misc	710	33
Sub Total ==>	1,420	65
Ceiling Load	0	0
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Ov/Undr Sizing	0	0
Grand Total ==>	2,169	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 31

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-190	-190	46.71
Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0.00
Wall Cond	-217	-217	53.29
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0.00
Infiltration	0	0	0.00
Sub Total ==>	-407	-407	100.00
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-407	-407	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	73.8
Ra Plenum	75.0	70.0
Return	76.6	70.0
Ret/OA	76.6	70.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	98	98
Terminal	98	98
Main Fan	98	98
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	0	0
Return	98	98
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	0.94	0.94
cfm/ton	500.26	
ft²/ton	531.89	
Btu/hr·ft²	22.56	-3.91
No. People	0	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.2	2.4	2.4	98	76.6	57.6	40.7	55.0	48.5	40.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.2	2.4								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	104		
Part	0		
Int Door	0		
ExFlr	0		
Roof	104	0	0
Wall	87	0	0
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-0.4	98	70.0	73.8
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-0.4			

Project Name: DIY Lettering
Dataset Name: DIY.trc

Room Checksums

By AEC

Office

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 15
Outside Air: OADB/WB/HR: 96 / 77 / 111

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	5,377	0	5,377	14
Glass Solar	1,238	0	1,238	3
Glass/Door Cond	887	0	887	2
Wall Cond	2,091	0	2,091	6
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0	0	0	0
Infiltration	0		0	0
Sub Total ==>	9,594	0	9,594	26
Internal Loads				
Lights	8,259	2,065	10,324	28
People	3,000	0	3,000	8
Misc	8,259	0	8,259	22
Sub Total ==>	19,519	2,065	21,584	58
Ceiling Load	0	0	0	0
Ventilation Load	0	0	6,162	17
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		0	0	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Underflr Sup Ht Pkup			0	0
Supply Air Leakage		0	0	0
Grand Total ==>	29,113	2,065	37,340	100.00

CLG SPACE PEAK

Mo/Hr: 6 / 15
OADB: 94

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	5,439	20
Glass Solar	1,363	5
Glass/Door Cond	797	3
Wall Cond	2,029	7
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	9,628	35
Internal Loads		
Lights	8,259	30
People	1,500	5
Misc	8,259	30
Sub Total ==>	18,019	65
Ceiling Load	0	0
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Ov/Undr Sizing		
Exhaust Heat		
OA Preheat Diff.		
RA Preheat Diff.		
Additional Reheat		
System Plenum Heat		
Underflr Sup Ht Pkup		
Supply Air Leakage		
Grand Total ==>	27,647	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 31

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-2,210	-2,210	21.05
Glass Solar	0	0	0.00
Glass/Door Cond	-1,729	-1,729	16.46
Wall Cond	-2,152	-2,152	20.49
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0.00
Infiltration	0	0	0.00
Sub Total ==>	-6,091	-6,091	58.00
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-4,410	42.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-6,091	-10,501	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	74.4
Ra Plenum	75.0	70.0
Return	76.6	70.0
Ret/OA	78.2	66.8
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,247	1,247
Terminal	1,247	1,247
Main Fan	1,247	1,247
Sec Fan	0	0
Nom Vent	102	102
AHU Vent	102	102
Infil	0	0
MinStop/Rh	0	0
Return	1,145	1,145
Exhaust	0	0
Rm Exh	102	102
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	8.2	8.2
cfm/ft²	1.03	1.03
cfm/ton	400.70	
ft²/ton	388.86	
Btu/hr·ft²	30.86	-8.68
No. People	6	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter gr/lb	Leave DB °F	Leave WB °F	Leave gr/lb
Main Clg	3.1	37.3	32.1	1,247	78.2	62.9	62.0	55.0	52.7	55.9
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	3.1	37.3								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	1,210		
Part	0		
Int Door	0		
ExFlr	0		
Roof	1,210	0	0
Wall	986	124	13
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-10.5	1,247	66.8	74.4
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-10.5			

Room Checksums

By AEC

Production Center

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 16
Outside Air: OADB/WB/HR: 96 / 77 / 113

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	32,461	0	32,461	13
Glass Solar	3,016	0	3,016	1
Glass/Door Cond	2,043	0	2,043	1
Wall Cond	11,158	0	11,158	4
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0	0	0	0
Infiltration	0		0	0
Sub Total ==>	48,679	0	48,679	20
Internal Loads				
Lights	49,584	12,396	61,980	25
People	3,000	0	3,000	1
Misc	78,600	0	78,600	32
Sub Total ==>	131,184	12,396	143,580	58
Ceiling Load	0	0	0	0
Ventilation Load	0	0	55,811	22
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		0	0	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Underflr Sup Ht Pkup			0	0
Supply Air Leakage		0	0	0
Grand Total ==>	179,863	12,396	248,070	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 16
OADB: 96

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	32,461	18
Glass Solar	3,016	2
Glass/Door Cond	2,043	1
Wall Cond	11,158	6
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	48,679	27
Internal Loads		
Lights	49,584	28
People	1,500	1
Misc	78,600	44
Sub Total ==>	129,684	73
Ceiling Load	0	0
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Exhaust Heat	0	0
Grand Total ==>	178,363	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 31

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-13,269	-13,269	20.38
Glass Solar	0	0	0.00
Glass/Door Cond	-3,936	-3,936	6.05
Wall Cond	-9,070	-9,070	13.93
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0.00
Infiltration	0	0	0.00
Sub Total ==>	-26,275	-26,275	40.36
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-38,828	59.64
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-26,275	-65,103	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	73.0
Ra Plenum	75.0	70.0
Return	76.6	70.0
Ret/OA	78.7	65.7
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	8,044	8,044
Terminal	8,044	8,044
Main Fan	8,044	8,044
Sec Fan	0	0
Nom Vent	898	898
AHU Vent	898	898
Infil	0	0
MinStop/Rh	0	0
Return	7,146	7,146
Exhaust	0	0
Rm Exh	898	898
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	11.2	11.2
cfm/ft²	1.11	1.11
cfm/ton	389.12	
ft²/ton	351.38	
Btu/hr·ft²	34.15	-8.96
No. People	6	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	20.7	248.1	211.3	8,044	78.7	63.4	63.3	55.0	52.9	56.7
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	20.7	248.1								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	7,264		
Part	0		
Int Door	0		
ExFlr	0		
Roof	7,264	0	0
Wall	3,767	135	4
Ext Door	260	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-65.1	8,044	65.7	73.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-65.1			

Project Name: DIY Lettering
Dataset Name: DIY.trc

Room Checksums

By AEC

Restroom 1

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 13
Outside Air: OADB/WB/HR: 94 / 75 / 102

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	135	0	135	12
Glass Solar	0	0	0	0
Glass/Door Cond	0	0	0	0
Wall Cond	353	0	353	32
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0	0	0	0
Infiltration	0		0	0
Sub Total ==>	487	0	487	44
Internal Loads				
Lights	280	70	350	31
People	0	0	0	0
Misc	280	0	280	25
Sub Total ==>	560	70	630	56
Ceiling Load	0	0	0	0
Ventilation Load	0	0	0	0
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		0	0	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Underflr Sup Ht Pkup			0	0
Supply Air Leakage		0	0	0
Grand Total ==>	1,047	70	1,117	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 13
OADB: 94

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	135	13
Glass Solar	0	0
Glass/Door Cond	0	0
Wall Cond	353	34
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	487	47
Internal Loads		
Lights	280	27
People	0	0
Misc	280	27
Sub Total ==>	560	53
Ceiling Load	0	0
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Exhaust Heat	0	0
Grand Total ==>	1,047	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 31

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-75	-75	25.68
Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0.00
Wall Cond	-217	-217	74.32
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0.00
Infiltration	0	0	0.00
Sub Total ==>	-292	-292	100.00
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-292	-292	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	75.6
Ra Plenum	75.0	70.0
Return	76.3	70.0
Ret/OA	76.3	70.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	47	47
Terminal	47	47
Main Fan	47	47
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	0	0
Return	47	47
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.15	1.15
cfm/ton	507.30	
ft²/ton	440.50	
Btu/hr·ft²	27.24	-7.11
No. People	0	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.1	1.1	1.1	47	76.3	57.4	40.7	55.0	48.5	40.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.1	1.1								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	41		
Part	0		
Int Door	0		
ExFlr	0		
Roof	41	0	0
Wall	87	0	0
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-0.3	47	70.0	75.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-0.3			

Room Checksums

By AEC

Restroom 2

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 13
Outside Air: OADB/WB/HR: 94 / 75 / 102

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	135	0	135	12
Glass Solar	0	0	0	0
Glass/Door Cond	0	0	0	0
Wall Cond	353	0	353	32
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0	0	0	0
Infiltration	0		0	0
Sub Total ==>	487	0	487	44
Internal Loads				
Lights	280	70	350	31
People	0	0	0	0
Misc	280	0	280	25
Sub Total ==>	560	70	630	56
Ceiling Load	0	0	0	0
Ventilation Load	0	0	0	0
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		0	0	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Underflr Sup Ht Pkup			0	0
Supply Air Leakage		0	0	0
Grand Total ==>	1,047	70	1,117	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 13
OADB: 94

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	135	13
Glass Solar	0	0
Glass/Door Cond	0	0
Wall Cond	353	34
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	487	47
Internal Loads		
Lights	280	27
People	0	0
Misc	280	27
Sub Total ==>	560	53
Ceiling Load	0	0
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Ov/Undr Sizing	0	0
Exhaust Heat		
OA Preheat Diff.		
RA Preheat Diff.		
Additional Reheat		
System Plenum Heat		
Underflr Sup Ht Pkup		
Supply Air Leakage		
Grand Total ==>	1,047	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 31

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-75	-75	25.68
Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0.00
Wall Cond	-217	-217	74.32
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0.00
Infiltration	0	0	0.00
Sub Total ==>	-292	-292	100.00
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-292	-292	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	75.6
Ra Plenum	75.0	70.0
Return	76.3	70.0
Ret/OA	76.3	70.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	47	47
Terminal	47	47
Main Fan	47	47
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	0	0
Return	47	47
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.15	1.15
cfm/ton	507.30	
ft²/ton	440.50	
Btu/hr·ft²	27.24	-7.11
No. People	0	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.1	1.1	1.1	47	76.3	57.4	40.7	55.0	48.5	40.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.1	1.1								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	41		
Part	0		
Int Door	0		
ExFlr	0		
Roof	41	0	0
Wall	87	0	0
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-0.3	47	70.0	75.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-0.3			

Room Checksums

By AEC

Restroom 3

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 13
Outside Air: OADB/WB/HR: 94 / 75 / 102

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	135	0	135	12
Glass Solar	0	0	0	0
Glass/Door Cond	0	0	0	0
Wall Cond	353	0	353	32
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0	0	0	0
Infiltration	0		0	0
Sub Total ==>	487	0	487	44
Internal Loads				
Lights	280	70	350	31
People	0	0	0	0
Misc	280	0	280	25
Sub Total ==>	560	70	630	56
Ceiling Load	0	0	0	0
Ventilation Load	0	0	0	0
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		0	0	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Underflr Sup Ht Pkup			0	0
Supply Air Leakage		0	0	0
Grand Total ==>	1,047	70	1,117	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 13
OADB: 94

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	135	13
Glass Solar	0	0
Glass/Door Cond	0	0
Wall Cond	353	34
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	487	47
Internal Loads		
Lights	280	27
People	0	0
Misc	280	27
Sub Total ==>	560	53
Ceiling Load	0	0
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Ov/Undr Sizing	0	0
Exhaust Heat		0
OA Preheat Diff.		0
RA Preheat Diff.		0
Additional Reheat		0
System Plenum Heat		0
Underflr Sup Ht Pkup		0
Supply Air Leakage		0
Grand Total ==>	1,047	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 31

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-75	-75	25.68
Glass Solar	0	0	0.00
Glass/Door Cond	0	0	0.00
Wall Cond	-217	-217	74.32
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0.00
Infiltration	0	0	0.00
Sub Total ==>	-292	-292	100.00
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-292	-292	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	75.6
Ra Plenum	75.0	70.0
Return	76.3	70.0
Ret/OA	76.3	70.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	47	47
Terminal	47	47
Main Fan	47	47
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	0	0
Return	47	47
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.15	1.15
cfm/ton	507.30	
ft²/ton	440.50	
Btu/hr·ft²	27.24	-7.11
No. People	0	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.1	1.1	1.1	47	76.3	57.4	40.7	55.0	48.5	40.5
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.1	1.1								

AREAS

	Gross Total	Glass ft²	Glass (%)
Floor	41		
Part	0		
Int Door	0		
ExFlr	0		
Roof	41	0	0
Wall	87	0	0
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-0.3	47	70.0	75.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-0.3			

Room Checksums

By AEC

Restroom 4

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 13
Outside Air: OADB/WB/HR: 94 / 75 / 102

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	135	0	135	12
Glass Solar	0	0	0	0
Glass/Door Cond	0	0	0	0
Wall Cond	353	0	353	32
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0	0	0	0
Infiltration	0		0	0
Sub Total ==>	487	0	487	44
Internal Loads				
Lights	280	70	350	31
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Ceiling Load	0	0	0	0
Ventilation Load	0	0	0	0
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	0		0	0
Exhaust Heat		0	0	0
Sup. Fan Heat			0	0
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Underflr Sup Ht Pkup			0	0
Supply Air Leakage		0	0	0
Grand Total ==>	1,047	70	1,117	100.00

CLG SPACE PEAK

Mo/Hr: 8 / 13
OADB: 94

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	135	13
Glass Solar	0	0
Glass/Door Cond	0	0
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Sub Total ==>	487	47
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Lights	280	27
People	0	0
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Ceiling Load	0	0
Ventilation Load	0	0
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Exhaust Heat	0	0
Grand Total ==>	1,047	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 31

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Wall Cond	-217	-217	74.32
Partition/Door	0	0	0.00
Floor	0	0	0.00
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Infiltration	0	0	0.00
Sub Total ==>	-292	-292	100.00
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
System Plenum Heat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-292	-292	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	75.6
Ra Plenum	75.0	70.0
Return	76.3	70.0
Ret/OA	76.3	70.0
Fn MtrTD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	47	47
Terminal	47	47
Main Fan	47	47
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
MinStop/Rh	0	0
Return	47	47
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.15	1.15
cfm/ton	507.30	
ft²/ton	440.50	
Btu/hr·ft²	27.24	-7.11
No. People	0	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
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Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.1	1.1								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	41		
Part	0		
Int Door	0		
ExFlr	0		
Roof	41	0	0
Wall	87	0	0
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-0.3	47	70.0	75.6
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-0.3			

Project Name: DIY Lettering
Dataset Name: DIY.trc