

Setbacks: 20-ft, 5-sides, 15 Rear

PERMIT APPLICATION / MANUFACTURED HOME INSTALLATION APPLICATION

For Office Use Only (Revised 7-1-15) Zoning Official JMA Building Official JMA
AP# 1907-22 Date Received 7/5/19 By MG Permit # 38370
Flood Zone X Development Permit _____ Zoning CT Land Use Plan Map Category Comm
Comments Need Data Plate before permit can be issued - Replacing M/H in existing Mt Park
Per Pre-Ins. Need to make repairs before final.
FEMA Map# _____ Elevation _____ Finished Floor 16' above the River In Floodway _____
☒ Recorded Deed or ☒ Property Appraiser PO ☒ Site Plan ☒ EH # 19-0521 ☐ Tell letter OR
☒ Existing well ☐ Land Owner Affidavit ☒ Installer Authorization ☐ FW Comp. letter ☒ App Fee Paid
☐ DOT Approval ☐ Parent Parcel # _____ ☐ STUP-MH ☒ 911 App
☐ Ellisville Water Sys ☒ Assessment Paid M/H Park ☐ Out County ☒ In County ☒ Sub VF Form OWNER

Property ID # 33-35-17-06500-000 Subdivision Mobile Home Park Lot# 8

- New Mobile Home _____ Used Mobile Home yes MH Size 14x70 Year 1991
- Applicant Damarguis Williams Phone # 386-466-4487
- Address 211 NE Hyatt Pl LAKE CITY, FL 32055
- Name of Property Owner Frank and Dana Cappalia Phone# 904-718-1371
- 911 Address 191 NE James Ave Lake City FL 32055
- Circle the correct power company - FL Power & Light - Clay Electric
(Circle One) - Suwannee Valley Electric - Duke Energy
- Name of Owner of Mobile Home Frank and Dana Cappalia Phone # 904-718-1371
Address 112 SW Cappalia Gl in Lake city FL
- Relationship to Property Owner Owner
- Current Number of Dwellings on Property 10
- Lot Size 50 by 100 Total Acreage 2.96
- Do you : Have Existing Drive or Private Drive or need Culvert Permit or Culvert Waiver (Circle one)
(Currently using) (Blue Road Sign) (Putting in a Culvert) (Not existing but do not need a Culvert)
- Is this Mobile Home Replacing an Existing Mobile Home Yes
- Driving Directions to the Property Make a left on US 90. Then Make a Left on James Ave 2nd to the last lot on the Right

- Name of Licensed Dealer/Installer Damarguis Williams Phone # 386 628 7586
- Installers Address 211 NE Hyatt Pl Lake city 32055
- License Number FH/1126217 valid Installation Decal # 60252

LT - Spoke to Dana & left a message for Damarguis 7-15-19

325.00

SCANNED

Mobile Home Permit Worksheet

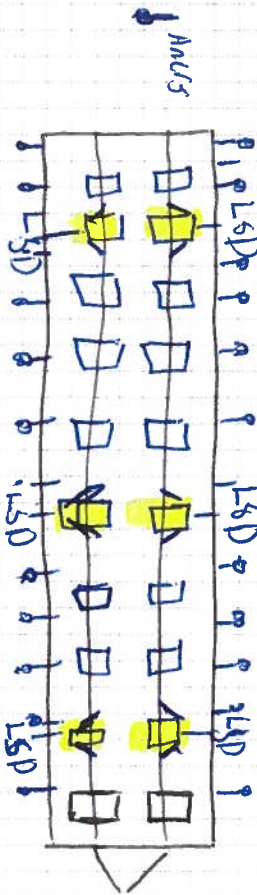
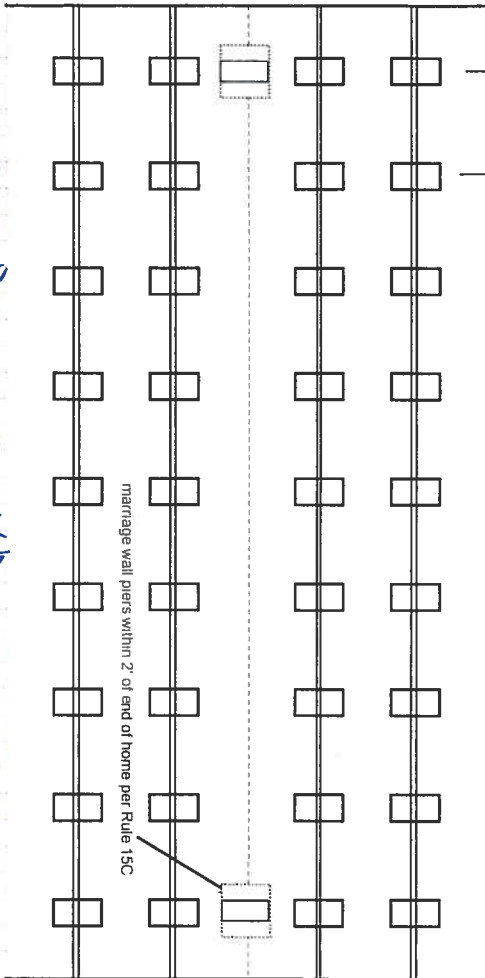
Installer: Danquins Williams License # 2H/1128217

Address of home being installed NE Davis Ave Lot #9

Manufacturer Fletcher Rock Step Length x width 14x70

NOTE: if home is a single wide fill out one half of the blocking plan
if home is a triple or quad wide sketch in remainder of home
I understand Lateral Arm Systems cannot be used on any home (new or used)
where the sidewall ties exceed 5 ft 4 in.

Installer's initials [Signature]



Application Number: _____

Date: _____

New Home ☒ Used Home ☒

Home installed to the Manufacturer's Installation Manual
Home is installed in accordance with Rule 15-C

Single wide ☒ Wind Zone II ☒ Wind Zone III ☐

Double wide ☐ Installation Decal # 60252

Triple/Quad ☐ Serial # PSHGA10571

PIER SPACING TABLE FOR USED HOMES

Load bearing capacity (sq in)	16" x 16" (256)	18 1/2" x 18 1/2" (342)	20" x 20" (400)	22" x 22" (484)*	24" x 24" (576)*	26" x 26" (676)
1000 psf	3'	4'	5'	6'	7'	8'
1500 psf	4' 6"	6'	7'	8'	8'	8'
2000 psf	6'	8'	8'	8'	8'	8'
2500 psf	7' 6"	8'	8'	8'	8'	8'
3000 psf	8'	8'	8'	8'	8'	8'
3500 psf	8'	8'	8'	8'	8'	8'

* interpolated from Rule 15C-1 pier spacing table.

PIER PAD SIZES

I-beam pier pad size 17x22
Perimeter pier pad size 12x22

Other pier pad sizes (required by the mfg.) _____

Draw the approximate locations of marriage wall openings 4 foot or greater. Use this symbol to show the piers.

List all marriage wall openings greater than 4 foot and their pier pad sizes below.

Opening _____ Pier pad size _____

[Signature]

POPULAR PAD SIZES

Pad Size	Sq In
16 x 16	256
16 x 18	288
18.5 x 18.5	342
16 x 22.5	360
17 x 22	374
13 1/4 x 26 1/4	348
20 x 20	400
17 3/16 x 25 3/16	441
17 1/2 x 25 1/2	446
24 x 24	576
26 x 26	676

ANCHORS

FRAME TIES

within 2' of end of home spaced at 5' 4" oc

TIEDOWN COMPONENTS

Longitudinal Stabilizing Device (LSD)
Manufacturer _____
Longitudinal Marriage wall
Manufacturer Qmer Tec

OTHER TIES

Number _____
Sidewall _____
Longitudinal Marriage wall _____
Shearwall _____

Mobile Home Permit Worksheet

Application Number: _____

Date: _____

POCKET PENETROMETER TEST

The pocket penetrometer tests are rounded down to 1500 psf or check here to declare 1000 lb. soil without testing.

X 1540 X 1500 X 1560

POCKET PENETROMETER TESTING METHOD

1. Test the perimeter of the home at 6 locations.
2. Take the reading at the depth of the footer.
3. Using 500 lb. increments, take the lowest reading and round down to that increment.

X 1500 X 1500 X 1500

TORQUE PROBE TEST

The results of the torque probe test is 3500 inch pounds or check here if you are declaring 5' anchors without testing 255. A test showing 275 inch pounds or less will require 5 foot anchors.

Note: A state approved lateral arm system is being used and 4 ft. anchors are allowed at the sidewall locations. I understand 5 ft anchors are required at all centerline tie points where the torque test reading is 275 or less and where the mobile home manufacturer may requires anchors with 4000 lb holding capacity.

12 Installer's initials

ALL TESTS MUST BE PERFORMED BY A LICENSED INSTALLER

Installer Name L. Marquez 2-14-25

Date Tested 6/25/19

Delgado

Electrical

Connect electrical conductors between multi-wide units, but not to the main power source. This includes the bonding wire between multi-wide units. Pg. 104-107

Plumbing

Connect all sewer drains to an existing sewer tap or septic tank. Pg. 104-107

Connect all potable water supply piping to an existing water meter, water tap, or other independent water supply systems. Pg. 104-107

Site Preparation

Debris and organic material removed 90%
Water drainage: Natural Swale Pad ✓ Other ✓

Fastening multi wide units

Floor/Walls/Roof	Type Fastener	Length	Spacing
	Type Fastener	Length	Spacing
	Type Fastener	Length	Spacing

For used homes a min. 30 gauge, 8" wide, galvanized metal strip will be centered over the peak of the roof and fastened with galv roofing nails at 2" on center on both sides of the centerline.

Gasket (weatherproofing requirement)

I understand a properly installed gasket is a requirement of all new and used homes and that condensation, mold, mildew and buckled marriage walls are a result of a poorly installed or no gasket being installed. I understand a strip of tape will not serve as a gasket.

Installer's initials _____

Type gasket Pg. _____
Installed: Between Floors Yes
Between Walls Yes
Bottom of ridgebeam Yes

Weatherproofing

The bottomboard will be repaired and/or taped. Yes ✓ Pg. _____
Siding on units is installed to manufacturer's specifications. Yes ✓
Fireplace chimney installed so as not to allow intrusion of rain water. Yes ✓

Miscellaneous

Skirting to be installed. Yes ✓ No ✓
Dryer vent installed outside of skirting. Yes ✓ N/A ✓
Range downflow vent installed outside of skirting. Yes ✓ N/A ✓
Drain lines supported at 4 foot intervals. Yes ✓
Electrical crossovers protected. Yes ✓
Other: _____

Installer verifies all information given with this permit worksheet is accurate and true based on the manufacturer's installation instructions and or Rule 15C-1 & 2

Installer Signature L. Marquez 6/25/19 Date 6/25/19

Legend

2018Aerials

2018 Flood Zones

0.2 PCT ANNUAL CHANCE

A

AE

AH

Addresses

Parcels

LidarElevations

X



Roads

Roads

others

Dirt

Interstate

Columbia County, FLA - Building & Zoning Property Map

Printed: Wed Jul 10 2019 17:20:34 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 33-3S-17-06500-000

Owner: HORTON RANDOLPH J

Subdivision: HIGHLAND ESTATES

Lot:

Acres: 3.62126946

Deed Acres: 2.98 Ac

District: District 1 Ronald Williams

Future Land Uses: Commercial

Flood Zones:

Official Zoning Atlas: CI

All data, information, and maps are provided "as is" without warranty or any representation of accuracy, timeliness of completeness. Columbia County, FL makes no warranties, express or implied, as to the use of the information obtained here. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts all limitations, including the fact that the data, information, and maps are dynamic and in a constant state of maintenance, and update.

Legend

2018Aerials

2018 Flood Zones

0.2 PCT ANNUAL CHANCE

A

AE

AH

Addresses

Parcels

Roads

Roads

others

Dirt

Interstate

Main

Other

Paved

Private

DevZones1

others

A-1

A-2

A-3

CG

CHI

CI

CN

CSV

ESA-2

I

ILW

MUD-I

PRD

PRRD

RMF-1

RMF-2

RO

RR

RSF-1

RSF-2

RSF-3

RSF/MH-1

RSF/MH-2

RSF/MH-3

DEFAULT

FutureLandUseMap

Mixed Use Development

Light Industrial

Industrial

Highway Interchange

Commercial

Residential High Density

(< 20 d.u. per acre)

Residential Medium/High Density

(< 14 d.u. per acre)

Residential Medium Density

(< 8 d.u. per acre)

Residential Moderate Density

(< 4 d.u. per acre)

Residential Low Density

(< 2 d.u. per acre)

Residential Very Low Density

(< 1 d.u. per acre)

Agriculture - 3

(< 1 d.u. per 5 acres)

Agriculture - 2

(< 1 d.u. per 10 acres)

Agriculture - 1

(< 1 d.u. per 20 acres)

Environmentally Sensitive Areas

(< 1 d.u. per 10 acres)

Public

Recreation

Columbia County, FLA - Building & Zoning Property Map

Printed: Wed Jul 10 2019 17:23:05 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 33-3S-17-06500-000

Owner: HORTON RANDOLPH J

Subdivision: HIGHLAND ESTATES

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MOBILE HOME INSTALLATION SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1907-22 CONTRACTOR Damarquis Williams PHONE _____

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

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

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name <u>Frank Capella Owner</u> Signature <u>Frank Capella Owner</u> License #: _____ Phone #: _____ Qualifier Form Attached <input type="checkbox"/>
MECHANICAL/ A/C _____	Print Name <u>Frank Capella Owner</u> Signature <u>Frank Capella Owner</u> License #: _____ Phone #: _____ Qualifier Form Attached <input type="checkbox"/>

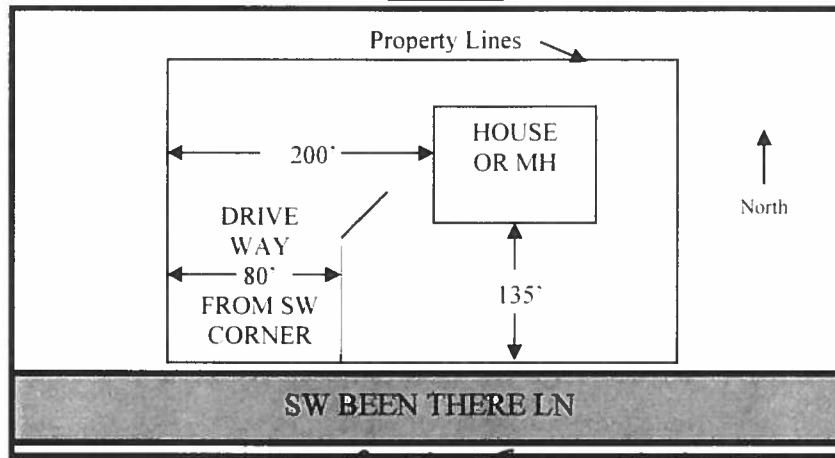
F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10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

Page 2, Site Plan for 9-1-1 Address Application From

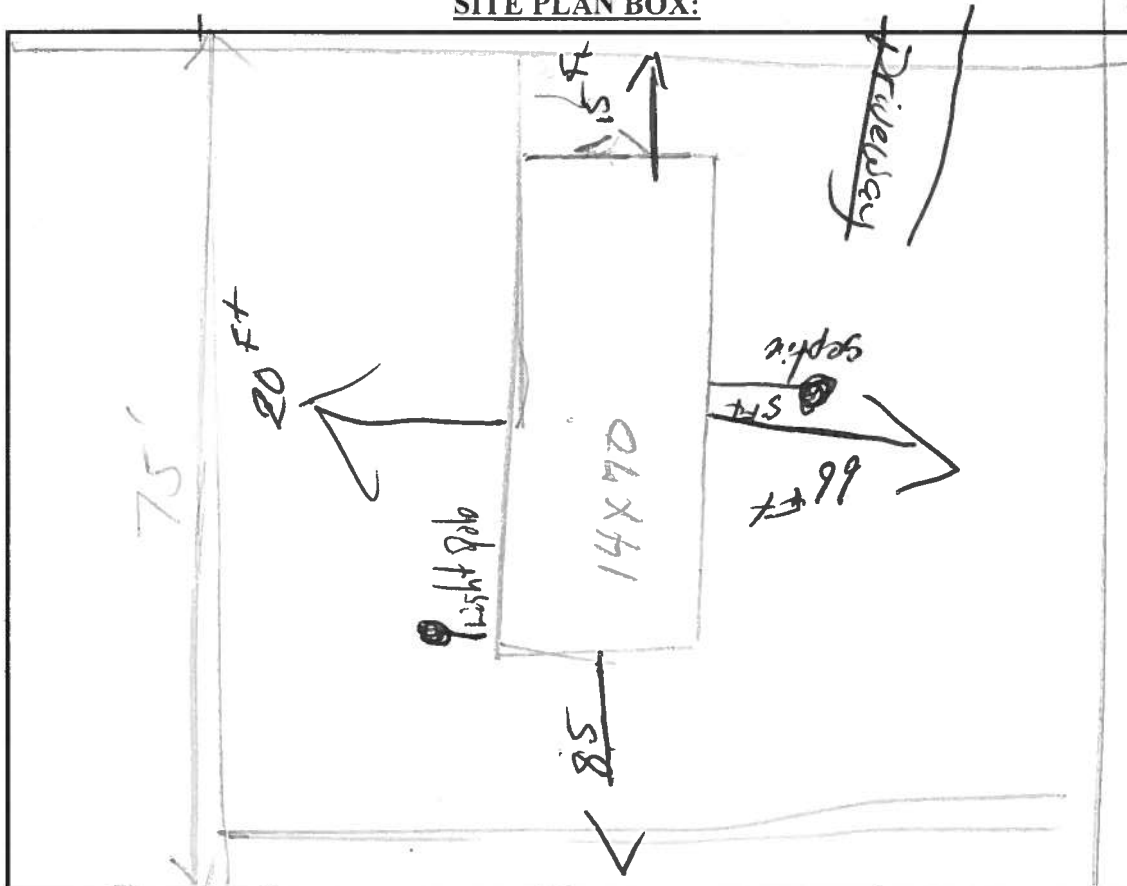
Site

1. A PLAT, PLAN, OR DRAWING SHOWING THE PROPERTY LINES OF THE PARCEL.
2. LOCATION OF PLANNED RESIDENT OR BUSINESS STRUCTURE ON THE PROPERTY WITH DISTANCES FROM AT LEAST TWO OF THE PROPERTY LINES TO THE STRUCTURE (SEE SAMPLE BELOW).
3. LOCATION OF THE ACCESS POINT (DRIVEWAY, ETC.) ON THE ROADWAY FROM WHICH LOCATION IS TO BE ADDRESSED WITH A DISTANCE FROM A PARALLEL PROPERTY LINE AND OR PROPERTY CORNER (SEE SAMPLE BELOW).
4. TRAVEL OF THE DRIVEWAY FROM THE ACCESS POINT TO THE STRUCTURE (SEE SAMPLE BELOW).

SAMPLE:



116 Jame Av
SITE PLAN BOX:



Columbia County Property Appraiser

Jeff Hampton

2018 Tax Roll Year

updated: 6/25/2019

Parcel: << **33-3S-17-06500-000** >>

Aerial Viewer Pictometry Google Maps

Owner & Property Info

Result: 2 of 4

Owner	CAPALLIA DANA & FRANK 112 SW CAPALLIA GLN LAKE CITY, FL 32024		
Site	1721 DUVAL ST, LAKE CITY		
Description*	LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 & 16 BLOCK 2 HIGHLAND ESTATES S/D, ORB 411-212, 631-765, 650-835, 921-2609, PROB#03-54-CP 975- 2337 THRU 2344, WD 1042-79, CD 1382-1191,		
Area	2.985 AC	S/T/R	33-3S-17
Use Code**	VEH SALE/R (002728)	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 (2)	\$150,818	Mkt Land (2)	\$150,818
Ag Land (0)	\$0	Ag Land (0)	\$0
Building (11)	\$114,024	Building (11)	\$105,401
XFOB (7)	\$59,830	XFOB (7)	\$59,830
Just	\$324,672	Just	\$316,049
Class	\$0	Class	\$0
Appraised	\$324,672	Appraised	\$316,049
SOH Cap [?]	\$0	SOH Cap [?]	\$0
Assessed	\$324,672	Assessed	\$316,049
Exempt	\$0	Exempt	\$0
Total	county:\$324,672 city:\$324,672	Total	county:\$316,049 city:\$316,049
Taxable	other:\$324,672 school:\$324,672	Taxable	other:\$316,049 school:\$316,049

**▼ Sales History**

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
4/12/2019	\$292,000	1382/1191	CD	I	U	21
3/31/2005	\$325,000	1042/0079	WD	I	Q	
1/26/2001	\$100	921/2609	WD	I	U	
9/3/1987	\$80,000	631/0765	WD	I	U	

▼ Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	1	SERV SHOP (006700)	1988	4200	4969	\$43,079
Sketch	10	MOBILE HME (000800)	1990	924	924	\$7,389
Sketch	11	MOBILE HME (000800)	1969	720	720	\$4,353
Sketch	13	MOBILE HME (000800)	1981	744	964	\$4,831
Sketch	3	MOBILE HME (000800)	1994	1152	1152	\$9,184



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

PERMIT NO. 19-0521
DATE PAID: 7/18/19
FEE PAID: 250.00
RECEIPT #: _____

APPLICATION FOR:

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

APPLICANT: Frank and Dana CapalliaAGENT: Darmanian WilliamTELEPHONE: 956-6915037MAILING ADDRESS: 211 NE Hibert Place

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: _____ SUBDIVISION: R107 Mobile Home Park PLATTED: _____PROPERTY ID #: 33-35-17-06500-000 ZONING: _____ I/M OR EQUIVALENT: [☒] N []PROPERTY SIZE: 25.135 ACRES WATER SUPPLY: [] PRIVATE PUBLIC [] <=2000GPD [] >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N]

DISTANCE TO SEWER: 7 FTPROPERTY ADDRESS: 14/NE James St East 45 90 Left on Jones Ave 2ndDIRECTIONS TO PROPERTY: to last house one Right

BUILDING INFORMATION

☒ RESIDENTIAL

[] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	Single wide Mobilehome	2	900	
2				
3				
4				

[☒] Floor/Equipment Drains [] Other (Specify) _____SIGNATURE: Darmanian WilliamDATE: 7/18/19

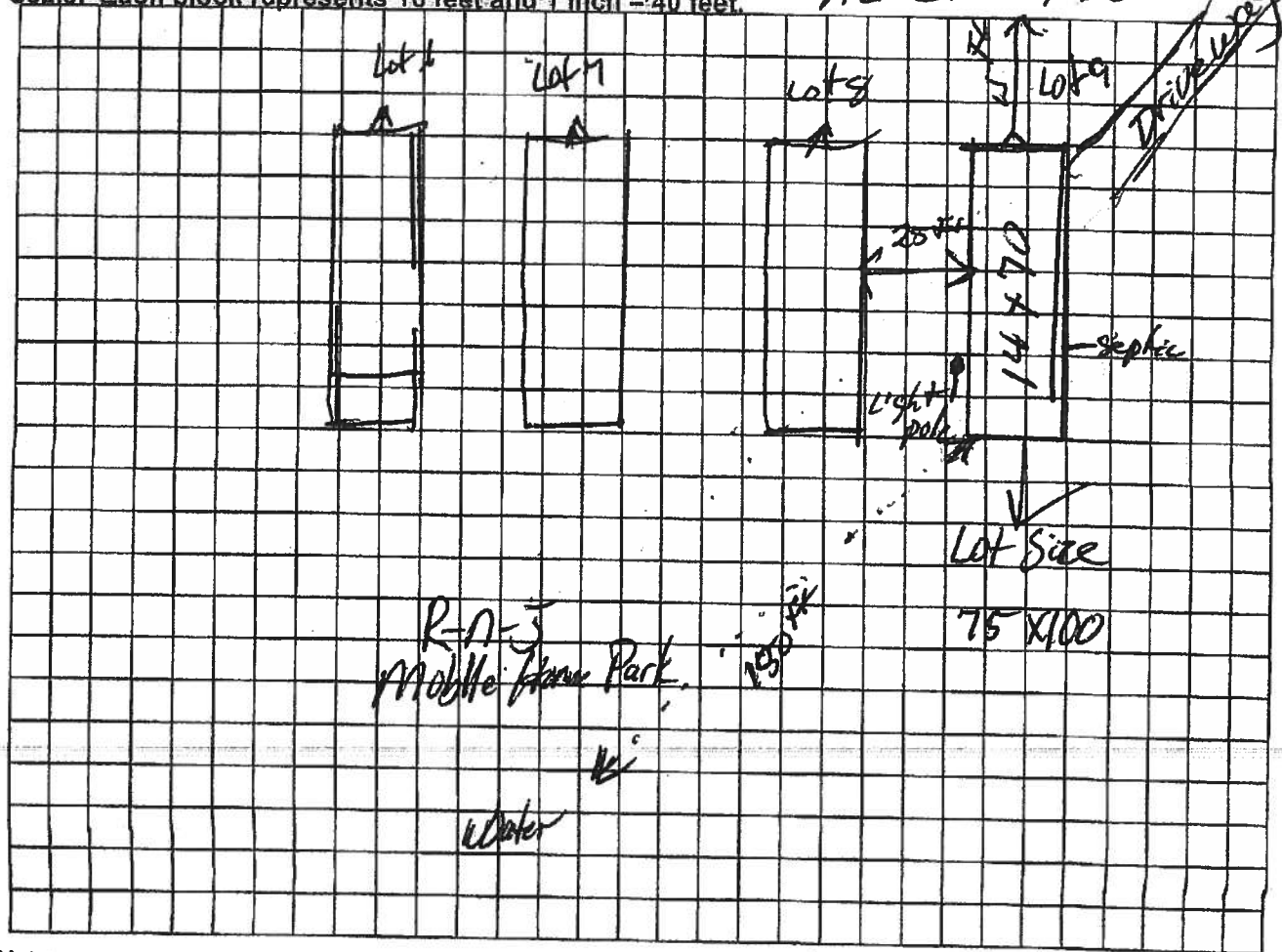
STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number

19-0521

PART II - SITEPLAN

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes:

Site Plan submitted by: Damarius WilliamsPlan Approved ☒

Not Approved

By

Sally Ford Env Health DirectorDate 7-15-19

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

Legend

Addresses

2018Aerials



Parcels

Roads

Roads

others



Dirt



Interstate



Main

Other

Paved



Private

Columbia County, FLA - Building & Zoning Property Map

Printed: Fri Jul 05 2019 09:49:47 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 33-3S-17-06500-000

Owner: HORTON RANDOLPH J

Subdivision: HIGHLAND ESTATES

Lot:

Acres: 3.62126946

Deed Acres: 2.98 Ac

District: District 1 Ronald Williams

Future Land Uses: Commercial

Flood Zones:

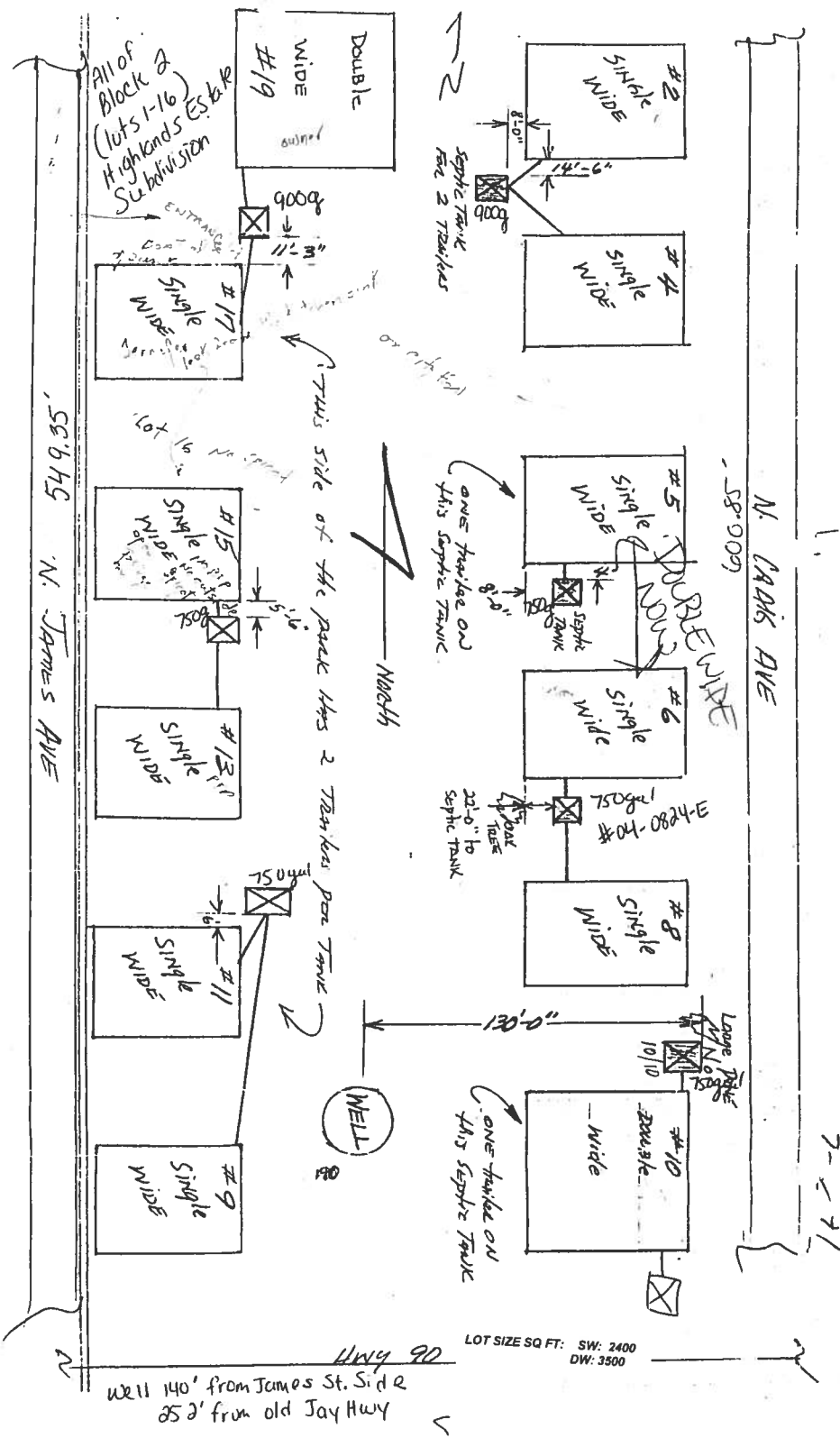
Official Zoning Atlas: CI

*Ok to use for
911 Address - Spola
to owner on
M/H Replacement*

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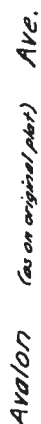
272.74'

7/5/91



LOT SIZE SQ FT: SW: 2400
DW: 3500

Old State Highway No. 1



Scale: 1" = 100 ft. ┐

• Indicates wood stake
• " iron pipe
■ " concrete monument (A.R.M.)

1373
July 27
1st

R06 500-800

Peach State Homes

P.O. Box 815 • Adel, GA 31620 • Phone: (912) 896-7420

Date of Manufacture 1/6/11	Plant Number	HUD No. 304
-------------------------------	--------------	----------------

Manufacturer's Serial Number and Model Unit Designation
10571

Design Approval by (D.A.P.I.A.)

This mobile home is designed to comply with the federal mobile home construction and safety standards in force at time of manufacture.
(For additional information, consult owner's manual.)

The factory installed equipment includes:

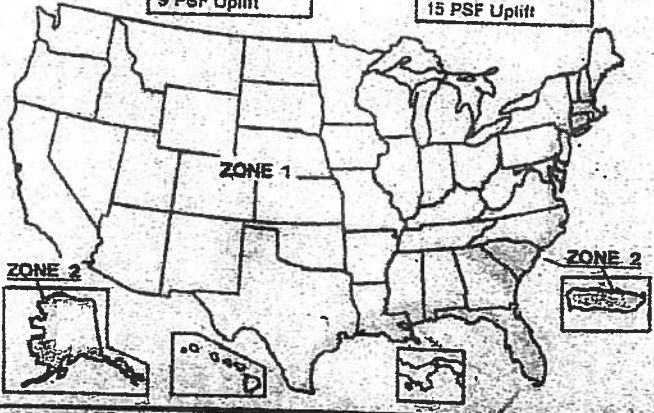
Equipment	Manufacturer	Model Designation
For heating		
For air cooling		
For cooking		
Refrigerator		
Water heater		
Washer		
Clothes Dryer		
Dishwasher		
Garbage Disposal		
Fireplace		

COMPLIANCE CERTIFICATE

DESIGN WIND
ZONE MAP

☐ Zone I
Standard Wind
15 PSF Horizontal
9 PSF Uplift

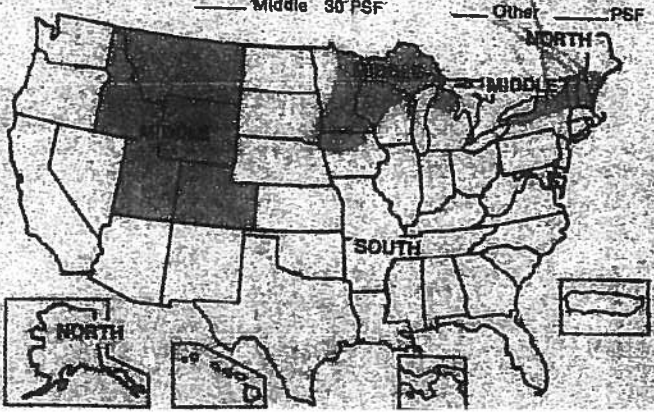
☐ Zone II
Hurricane Resisive
25 PSF Horizontal
15 PSF Uplift



DESIGN ROOF LOAD
ZONE MAP

North 40 PSF
Middle 30 PSF

South 20 PSF
Other 15 PSF



STRUCTURAL DESIGN BASIS CERTIFICATE

HEATING AND COOLING DESIGN BASIS CERTIFICATE

COMFORT HEATING

This mobile home has been thermally insulated to conform with the requirements of federal mobile home construction and safety standards for all locations within climatic zone I.

Heating equipment manufacturer and model (see list at left).
The above heating equipment has the capacity to maintain an average 70° F temperature in this home at outdoor temperatures of 10° F.
To maximize furnace operating economy, and to conserve energy, it is recommended that this home be installed where the outdoor winter design temperature (97° F) is not higher than 102° degrees Fahrenheit.

The above information has been calculated assuming a maximum wind velocity of 15 mph standard atmospheric pressure.

COMFORT COOLING

☐ Air conditioner provided at factory (Alternate I)

Air conditioner manufacturer and model (see list at left).

Certified capacity _____ B.T.U./hour in accordance with the appropriate air conditioning and refrigeration institute standards.
The central air conditioning system provided in this home has been sized ensuring orientation of the front (fifth end) of the home facing _____ On this basis system is designed to maintain an indoor temperature of 75° F when outdoor

temperatures are _____ F dry bulb and _____ F wet bulb.

The temperature to which this home can be cooled will change depending upon amount of exposure of the windows of this home to the sun's radiant heat. Therefore, home's heat gains will vary dependent upon its orientation to the sun and any permanent shading provided. Information concerning the calculation of cooling loads at various locations, window exposures and shades are provided in Chapter 22 of the 1981 edition of ASHRAE Handbook of Fundamentals.

Information necessary to calculate cooling loads at various locations and orientations provided in the special comfort cooling information provided with this mobile home.

☐ Air conditioner not provided at factory (Alternate II)

The air distribution system of this home is suitable for the installation of central air conditioning.

The supply air distribution system installed in this home is sized for mobile home central air conditioning system of up to _____ B.T.U./hr. rated capacity which is certified in accordance with the appropriate air conditioning and refrigeration institute standards; when the air circulators of such air conditioners are rated at 0.3 inch water column static pressure or greater for the cooling air delivered to the mobile home supply air duct system.

Information necessary to calculate cooling loads at various locations and orientations provided in the special comfort cooling information provided with this mobile home.

☐ Air conditioning not recommended (Alternate III)

The air distribution system of this home has not been designed in anticipation of its use with a central air conditioning system.

INFORMATION PROVIDED BY THE MANUFACTURER NECESSARY TO CALCULATE SENSIBLE HEAT GAIN

Walls (without windows and doors)	"U" _____
Ceilings and roofs of light color	"U" _____
Ceilings and roofs of dark color	"U" _____
Floors	"U" _____
Air ducts in floor	"U" _____
Air ducts in ceiling	"U" _____
Air ducts installed outside the home	"U" _____

The following are the duct areas in this home:

Air ducts in floor	_____ sq. ft.
Air ducts in ceiling	_____ sq. ft.
Air ducts outside the home	_____ sq. ft.

To determine the required capacity of equipment to cool a home efficiently and economically, a cooling load (heat gain) calculation is required. The cooling load is dependent on the orientation, location and the structure of the home. Central air conditioners operate most efficiently and provide the greatest comfort when their capacity closely approximates the calculated cooling load. Each home's air conditioner should be sized in accordance with Chapter 22 of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Handbook of Fundamentals, once the location and orientation are known.

OUTDOOR WINTER DESIGN TEMP. ZONES

