

PLANNING AND ZONING BOARD MEETING

CITY OF LAKE CITY

June 11, 2024 at 5:30 PM

Venue: City Hall

AGENDA

The meeting will be held in the City Council Chambers on the second floor of City Hall located at 205 North Marion Avenue, Lake City, FL 32055. Members of the public may also view the meeting on our YouTube channel. YouTube channel information is located at the end of this agenda.

INVOCATION

ROLL CALL

MINUTES

- [i.](#) Meeting Minutes 04-09-2024
- [ii.](#) Meeting Minutes 05-14-2024

OLD BUSINESS

- [iii.](#) **SPR24-05**, Petition submitted by Randall Olney, P.E.. (agent) for Concept Companies (owner), for a Site Plan Review for Dollar General, in the Commercial Intensive Zoning District, and located on parcel 08127-005, which is regulated by the Land Development Regulations section 4.13.

*****Note, meeting on 05-14-2024 was cancelled due to lack of a quorum.*****

- [iv.](#) *****POSTPONED***SPR23-10**, Petition submitted by Carol Chadwick (agent) for Affiliated Property Management (owner), for a Site Plan Review for Aspire Dental Addition, in the Commercial Intensive Zoning District, and located on Parcel 07604-102, which is regulated by the Land Development Regulations section 4.13.

NEW BUSINESS

- [v.](#) **SPR24-06**, Petition submitted by Christopher A Gmuer, P.E.. (agent) for ERA Investments (owner), for a Site Plan Review for Lake City Hotels Phase 2, in

the Commercial Intensive Zoning District, and located on parcel 02582-002, which is regulated by the Land Development Regulations section 4.13.

WORKSHOP- None

ADJOURNMENT

YouTube Channel Information

Members of the public may also view the meeting on our YouTube channel at:
<https://youtube.com/c/CityofLakeCity>

Pursuant to 286.0105, Florida Statutes, the City hereby advises the public if a person decides to appeal any decision made by the City Council with respect to any matter considered at its meeting or hearings, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

Pursuant to 286.26, Florida Statutes, persons needing special accommodations to participate in this meeting should contact the City Manager's Office at (386) 719-5768.

File Attachments for Item:

i. Meeting Minutes 04-09-2024

PLANNING AND ZONING

MEETING MINUTES

DATE: 04/09/2024

ROLL CALL:

Mrs. McKellum- Present Mr. McMahon- Present Mr. Nelson- Present
Mr. Lydick- Present City Attorney- Clay Martin- Present

MINUTES: March 5, 2024 Planning and Zoning Meeting.

Comments or Revisions: None

Motion to approve 03/05/2024 Meeting Minutes by Mr. Nelson and seconded by Mrs. McKellum.

Ex Parte Communications

Mr. Martin polled the Board if they had any ex parte communications for petitions SPR 24-04, CPA 24-01, and Z 24-01

Mrs. McKellum- No, Mr. McMahon- No, Mr. Nelson- No, and Mr. Lydick- Only the regular exercise of his duties on briefing of the agenda. Mr. Martin asked if it would those conversations affect your ability to render a fair decision.

OLD BUSINESS: None

Petition # LDR 24-03 Presented By: Dave Young, CBO

As owner or agent and gives address of:

Petitioner is Sworn in by: Clay Martin, City Attorney

Motion to un-table petition LDR 24-03 by; Mr. McMahon and seconded by Mr. Nelson.

Approved by hand vote unanimously.

Discussion:

Mr. Young introduced text amendment. He stated that this text amendment is bringing up to date the parking requirements to other communities our size. Mr. Lydick asked if there were any major changes other than, adding section 4.2.15.17. Mr. Young stated no.

Mr. Martin asked about the strike thru's and the addition of where is states see section 4.2.15 is different then the ordinance that is prepared for council. Mr. Martin asked which one do we want to be recommended by the board to go to Council? Mr. Lydick and Mr. Martin discussed briefly. Robert stated that we could go with how the ordinance is prepared. Mr. Martin stated that the would change the verbiage to subsection instead of paragraph and leave the numbering as is.

Public Comment:

Carol Chadwick stated that per the Boards request, she believes that the City did a great job. Mr. Lydick asked if she seen anything that look like it may be a problem. She stated that until you start applying it you will not know.

Motion to close public comment by: Mr. Nelson Seconded by: Mr. McKellum

PLANNING AND ZONING

MEETING MINUTES

Board Discussion:

Mr. Lydick asked if any of the other departments weighed in on the amendment. Robert stated that the other departments were aware of them but they did not weigh in. Robert stated that they City did send the text amendment out to over 700 businesses in the City. He stated that we only go a handful of comments back, all in support of it. Mr. McMahon asked if this would go on to the City Council once approved.

Motion to approve petition LDR 24-03, with the amendments suggested by council by: Mr. McMahon

Motion Seconded By: Mr. Nelson

Mrs. McKellum: Aye **Mr. Nelson:** Aye **Mr. McMahon:** Aye

Mr. Lydick: Aye

NEW BUSINESS:

Petition # SPR24-03 Presented By: Brandon Stubbs

As owner or agent and gives address of: 1450 SW SR 47, Lake City, FL

Petitioner is Sworn in by: Mr. Lydick

Staff is Sworn in by: Mr. Martin

Discussion:

Mr. Young introduced petition SPR 24-04. He stated that proposed use of the land is for multi-family and is conducive for use per the Land Development Regulations 4.9.2.3. He stated that after review of the site plan that it is consistent with the Land Development Regulations.

Mr. Kurtz the land is currently vacant. He stated that they plan to put one to three bed room town homes. He stated SRWMD has reviewed the project along with the City and they have no concerns. He stated that FDOT said they need a drainage permit. He stated that they will work on that with FDOT.

Mr. McMahon asked about how many units. Mr. Kurtz stated that they want to put in 192 units. Mr. Lydick asked about the size of the large retention pond. Mr. Kurtz stated that due to the slope of the land they had to do two ponds stair stepped to accommodate for the amount of water.

Mr. Martin asked Mr. Young if he was going to move the staff records into evidence. Mr. Young stated yes.

Exhibits introduced: None

Public Comment:

Loretta Nicholas asked about how this is going to affect them as far as traffic, sewer, and water. Mr. Kurtz stated that as far as water and sewer, this will not impact the citizens. He stated as far as traffic they will use Hall of Fame and will not enter Aster Way.

Motion to close public comment by: Mr. Nelson **Seconded by:** Mrs. McKellum

PLANNING AND ZONING

MEETING MINUTES

Board Discussion:

No comments.

Motion to approve SPR24-04 as submitted by: Mr. McMahon **Motion Seconded By:** Mr. Nelson

Mrs. McKellum: Aye **Mr. Nelson:** Aye **Mr. McMahon:** Aye
Mr. Lydick: Aye

Petition # CPA 24-01 **Presented By:** Carol Chadwick

As owner or agent and gives address of: 1208 SW Fairfax Glen

Petitioner is Sworn in by: Mr. Lydick

Staff is Sworn in by: Mr. Martin

Discussion:

Mr. Young introduced petition CPA 24-01. He stated that the City staff has determined the petition is consistent with the Land Development Regulations. He stated that he is introducing the staff records into the record.

Carol stated that they are planning to change the Future Land Use and Zoning to allow for a second phase of Sugarmill Apartments. She stated that the site will be accessed from the existing site. She stated they are planning on 46 dwelling units. Mr. Lydick asked if the property ever had a City zoning. She stated that it has not. Mr. Martin asked if she was going to introduce her application into the record.

Public Comment:

David Kraft stated that he owns the property next to it. He stated that there is water all in his yard and would like them to address this in the future review. Mr. Lydick asked Robert if this was going to be in front of the board. Robert stated yes.

Exhibits introduced: None

Motion to close public comment by: Mrs. McKellum **Seconded by:** Mr. Nelson

Board Discussion: None

Motion to approve CPA24-01 as submitted by: Mr. McMahon **Motion Seconded By:** Mr. Nelson

Mrs. McKellum: Aye **Mr. Nelson:** Aye **Mr. McMahon:** Aye
Mr. Lydick: Aye

PLANNING AND ZONING

MEETING MINUTES

Petition # Z 24-01 Presented By: Carol Chadwick

As owner or agent and gives address of: 1208 SW Fairfax Glen

Petitioner is Sworn in by: Mr. Lydick

Staff is Sworn in by: Mr. Martin

Discussion:

Mr. Young introduced petition Z 24-01. He stated that the City staff has determined the petition is consistent with the Land Development Regulations. He stated that he is introducing the staff records into the record.

Carol stated that project is the rezoning for the previous project. She stated that she is introducing her application into the record.

Public Comment: None

Exhibits introduced: None

Motion to close public comment by: Mr. Nelson **Seconded by:** Mr. Nelson

Board Discussion: None

Motion to approve Z24-01 as submitted by: Mr. Nelson **Motion Seconded By:** Mr. McMahon

Mrs. McKellum: Aye **Mr. Nelson:** Aye **Mr. McMahon:** Aye

Mr. Lydick: Aye

WORKSHOP: None

ADJOURNMENT

Mr. Lydick closed the meeting.

Motion to Adjourn by: Mr. McMahon

Time: 6:11 pm

Motion Seconded By: Mr. Nelson

Mr. Lydick, Board Chairperson

Date Approved

Robert Angelo, Secretary

Date Approved

PLANNING AND ZONING

MEETING MINUTES

File Attachments for Item:

ii. Meeting Minutes 05-14-2024

PLANNING AND ZONING

MEETING MINUTES

DATE: 05/14/2024

ROLL CALL:

Mrs. McKellum- Present Mr. McMahon- Present Mr. Nelson- Not Present
Mr. Lydick- Present City Attorney- Clay Martin- Present

MINUTES:

Comments or Revisions: No Quorum.

Ex Parte Communications

No Quorum.

OLD BUSINESS: None

NEW BUSINESS:

Petition # SPR24-05 Presented By:
As owner or agent and gives address of:
Petitioner is Sworn in by:
Staff is Sworn in by:

Discussion:
No Quorum.

Petition # SPR24-05 Presented By:
As owner or agent and gives address of:
Petitioner is Sworn in by:
Staff is Sworn in by:

WORKSHOP: None

ADJOURNMENT

Mr. Lydick closed the meeting.

Motion to Adjourn by: Mrs. McKellum
Time: 5:36 pm
Motion Seconded By: Mr. McMahon

PLANNING AND ZONING

MEETING MINUTES

Mr. Lydick, Board Chairperson

Date Approved

Robert Angelo, Secretary

Date Approved

File Attachments for Item:

iii. SPR24-05, Petition submitted by Randall Olney, P.E.. (agent) for Concept Companies (owner), for a Site Plan Review for Dollar General, in the Commercial Intensive Zoning District, and located on parcel 08127-005, which is regulated by the Land Development Regulations section 4.13.

*****Note, meeting on 05-14-2024 was cancelled due to lack of a quorum.*****



GROWTH MANAGEMENT
 205 North Marion Ave.
 Lake City, FL 32055
 Telephone: (386)719-5750
 E-Mail:
 growthmanagement@lcfla.com

FOR PLANNING USE ONLY
 Application # SPR 24-05
 Application Fee: **\$200.00**
 Receipt No. 2024-00042147
 Filing Date 3/21/24
 Completeness Date _____

Site Plan Application

A. PROJECT INFORMATION

1. Project Name: Commercial Retail Store - Marvin Burnett
2. Address of Subject Property: Northwest of the intersection of SR 47 and SW Marvin Burnett Road, Lake City, Florida 32025
3. Parcel ID Number(s): 07-4S-17-08127-005
4. Future Land Use Map Designation: Commercial
5. Zoning Designation: Commercial, Intensive
6. Acreage: 2.70
7. Existing Use of Property: Vacant
8. Proposed use of Property: Commercial Retail Store
9. Type of Development (Check All That Apply):
 - Increase of floor area to an existing structure: Total increase of square footage _____
 - New construction: Total square footage 10,640
 - Relocation of an existing structure: Total square footage _____

B. APPLICANT INFORMATION

1. Applicant Status Owner (title holder) Agent
2. Name of Applicant(s): Randall Olney, P.E. Title: Director of Engineering
 Company name (if applicable): CHW
 Mailing Address: 11801 Research Drive
 City: Alachua State: Florida Zip: 32615
 Telephone: (352) 331-1976 Fax: () Email: randyo@ctw-inc.com

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

3. If the applicant is agent for the property owner*.
 Property Owner Name (title holder): Concept Companies
 Mailing Address: 1449 SW 74th Dr. Suite 200
 City: Gainesville State: Florida Zip: 32607
 Telephone: (352) 333-3233 Fax: () Email: _____

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

***Must provide an executed Property Owner Affidavit Form authorizing the agent to act on behalf of the property owner.**

C. ADDITIONAL INFORMATION

1. Is there any additional contract for the sale of, or options to purchase, the subject property?
If yes, list the names of all parties involved: St. Johns, LLC, Concept Development, Inc.
If yes, is the contract/option contingent or absolute: Contingent Absolute
2. Has a previous application been made on all or part of the subject property? Yes No
Future Land Use Map Amendment: Yes _____ No _____
Future Land Use Map Amendment Application No. _____
Site Specific Amendment to the Official Zoning Atlas (Rezoning): Yes _____ No _____
Site Specific Amendment to the Official Zoning Atlas (Rezoning) Application No. _____
Variance: Yes _____ No _____
Variance Application No. _____
Special Exception: Yes _____ No _____
Special Exception Application No. _____

D. ATTACHMENT/SUBMITTAL REQUIREMENTS

1. Vicinity Map – Indicating general location of the site, abutting streets, existing utilities, complete legal description of the property in question, and adjacent land use.
2. Site Plan – Including, but not limited to the following:
 - a. Name, location, owner, and designer of the proposed development.
 - b. Present zoning for subject site.
 - c. Location of the site in relation to surrounding properties, including the means of ingress and egress to such properties and any screening or buffers on such properties.
 - d. Date, north arrow, and graphic scale not less than one inch equal to 50 feet.
 - e. Area and dimensions of site (Survey).
 - f. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.
 - g. Access to utilities and points of utility hook-up.
 - h. Location and dimensions of all existing and proposed parking areas and loading areas.
 - i. Location, size, and design of proposed landscaped areas (including existing trees and required landscaped buffer areas).
 - j. Location and size of any lakes, ponds, canals, or other waters and waterways.
 - k. Structures and major features fully dimensioned including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and percent of property covered by structures.
 - l. Location of trash receptacles.
 - m. For multiple-family, hotel, motel, and mobile home park site plans:
 - i. Tabulation of gross acreage.
 - ii. Tabulation of density.
 - iii. Number of dwelling units proposed.
 - iv. Location and percent of total open space and recreation areas.
 - v. Percent of lot covered by buildings.

- vi. Floor area of dwelling units.
 - vii. Number of proposed parking spaces.
 - viii. Street layout.
 - ix. Layout of mobile home stands (for mobile home parks only).
3. Stormwater Management Plan—Including the following:
 - a. Existing contours at one foot intervals based on U.S. Coast and Geodetic Datum.
 - b. Proposed finished elevation of each building site and first floor level.
 - c. Existing and proposed stormwater management facilities with size and grades.
 - d. Proposed orderly disposal of surface water runoff.
 - e. Centerline elevations along adjacent streets.
 - f. Water management district surface water management permit.
 4. Fire Department Access and Water Supply Plan: The Fire Department Access and Water Supply Plan must demonstrate compliance with Chapter 18 of the Florida Fire Prevention Code, be located on a separate signed and sealed plan sheet, and must be prepared by a professional fire engineer licensed in the State of Florida. The Fire Department Access and Water Supply Plan must contain fire flow calculations in accordance with the Guide for Determination of Required Fire Flow, latest edition, as published by the Insurance Service Office (“ISO”) and/or Chapter 18, Section 18.4 of the Florida Fire Prevention Code, whichever is greater.
 5. Concurrency Impact Analysis: Concurrency Impact Analysis of impacts to public facilities. For commercial and industrial developments, an analysis of the impacts to Transportation, Potable Water, Sanitary Sewer, and Solid Waste impacts are required.
 6. Comprehensive Plan Consistency Analysis: An analysis of the application’s consistency with the Comprehensive Plan (analysis must identify specific Goals, Objectives, and Policies of the Comprehensive Plan and detail how the application complies with said Goals, Objectives, and Policies).
 7. Legal Description with Tax Parcel Number (In Word Format).
 8. Proof of Ownership (i.e. deed).
 9. Agent Authorization Form (signed and notarized).
 10. Proof of Payment of Taxes (can be obtained online via the Columbia County Tax Collector’s Office).
 11. Fee. The application fee for a Site and Development Plan Application is \$200.00. No application shall be accepted or processed until the required application fee has been paid.

NOTICE TO APPLICANT

All eleven (11) attachments are required for a complete application. Once an application is submitted and paid for, a completeness review will be done to ensure all the requirements for a complete application have been met. If there are any deficiencies, the applicant will be notified in writing. If an application is deemed to be incomplete, it may cause a delay in the scheduling of the application before the Planning & Zoning Board.

A total of ten (10) copies of proposed site plan application and all support materials must be submitted along with a PDF copy on a CD. See City of Lake City submittal guidelines for additional submittal requirements.

THE APPLICANT ACKNOWLEDGES THAT THE APPLICANT OR AGENT MUST BE PRESENT AT THE PUBLIC HEARING BEFORE THE PLANNING AND ZONING BOARD, AS ADOPTED IN THE BOARD RULES AND PROCEDURES. OTHERWISE THE REQUEST MAY BE CONTINUED TO A FUTURE HEARING DATE.

I hereby certify that all of the above statements and statements contained in any documents or plans submitted herewith are true and accurate to the best of my knowledge and belief.

Randall Olney, P.E.

Applicant/Agent Name (Type or Print)

[Handwritten Signature]

Applicant/Agent Signature

3/21/24

Date

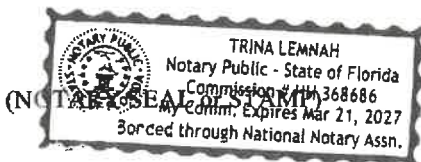
Applicant/Agent Name (Type or Print)

Applicant/Agent Signature

Date

STATE OF FLORIDA
COUNTY OF *Alachua*

The foregoing instrument was acknowledged before me this *21st* day of *3*, 20*24*, by (name of person acknowledging).



[Handwritten Signature]

Signature of Notary

Trina Lemnah

Printed Name of Notary

Personally Known OR Produced Identification _____
Type of Identification Produced

City of Lake City - Growth Management Department
205 North Marion Ave, Lake City, FL 32055 ♦ (386) 719-5750

CRS Lake City Marvin Burnett – Cover Letter

JOB NO. 22-0653



March 21, 2024

Robert Angelo
Lake City Growth Management

RE: CRS Lake City Marvin Burnett

Dear Robert:

Please find attached the following items for review:

- Check #0018976 in the amount of \$200.00
- Site Plan Application
- Property Appraiser Information
- Agent Authorization Form
- Deed
- Legal Description
- Property Owner Affidavit
- Proof of Tax Payment
- Traffic Study
- Geotechnical Study
- Comprehensive Plan Analysis
- Concurrency Analysis
- Meter Calculations
- Fire Flow Memo
- Lift Station Report
- Stormwater Report
- Signed and Sealed Plans

The ±2.72 acre site is located on SR 47 and SW Marvin Burnett Road in Lake City, Florida on a portion of tax parcel number 07-4S-17-08127-005. The site is currently undeveloped and heavily wooded. The development intent is to construct a ±10,640 s.f. commercial retail store on the parcel with the associated parking, stormwater management, and utility connections. Utility connections consist of a gravity sewer lateral to a private onsite lift station and connection to an existing forcemain within SR 47 ROW. Water and fire protection will be provided by extending a 600' water main along the western ROW of SR 47 and crossing via directional drill under SR 47 to wet tap an existing City water main. Offsite roadway improvements consist of a sidewalk along the project frontage, driveway connection and an eastbound left turn lane to Marvin Burnett Road.

We trust you will find this submittal to be complete for review and approval. If you have any questions, or need additional information, please contact me at (352) 331-1976 or via email at randyo@chw-inc.com.

Sincerely,
CHW

A handwritten signature in blue ink, appearing to read 'Randall Olney'.

Randall Olney, PE
Director of Engineering, Land Development

CRS Lake City Marvin Burnett – Cover Letter

JOB NO. 22-0653



\\fs01.chw-inc.local\jobs2\2023\23-0653\Departments\04_Engineering\01_Regulatory Permitting\Municipalities\City\Submittals and Comments\240321\LTR 240321 CRS MB - Cover Letter.docx

Columbia County Property Appraiser
Jeff Hampton

Parcel: << 07-4S-17-08127-005 (29833) >>

Owner & Property Info

Result: 1 of 0

Owner	ST JOHNS LLC 13820 W NEWBERRY RD STE 100 NEWBERRY, FL 32669		
Site			
Description	S1/2 OF NE1/4 OF NE1/4 W OF SR-47. 482-143, LE 1318-991, DC 1327-1298, WD 1330-1324, 372-81, 804-766, 894-679, 912-1064, 1037-1953		
Area	9.694 AC	S/T/R	07-4S-17
Use Code**	VACANT (0000)	Tax District	1

*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

	2023 Certified Values		2024 Working Values	
Mkt Land	\$266,978	Mkt Land	\$266,978	
Ag Land	\$0	Ag Land	\$0	
Building	\$0	Building	\$0	
XFOB	\$0	XFOB	\$0	
Just	\$266,978	Just	\$266,978	
Class	\$0	Class	\$0	
Appraised	\$266,978	Appraised	\$266,978	
SOH Cap [?]	\$0	SOH Cap [?]	\$0	
Assessed	\$266,978	Assessed	\$266,978	
Exempt	\$0	Exempt	\$0	
Total Taxable	county:\$266,978 city:\$266,978 other:\$0 school:\$266,978	Total Taxable	county:\$266,978 city:\$266,978 other:\$0 school:\$266,978	

Aerial Viewer Pictometry Google Maps

2023 2022 2019 2016 2013 Sales



Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Qualification (Codes)	RCode
2/6/2017	\$70,000	1330/1324	WD	I	Q	01
7/7/2016	\$100	1318/0991	LE	I	U	14
4/7/1995	\$727,500	0804/0766	WD	V	U	35
7/31/1990	\$127	1037/1953	WD	V	U	03
7/21/1990	\$127	1036/1953	WD	V	U	03

Building Characteristics

Bldg Sketch	Description*	Year Blt	Base SF	Actual SF	Bldg Value
NONE					

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims
NONE					

Land Breakdown

Code	Desc	Units	Adjustments	Eff Rate	Land Value
0000	VAC RES (MKT)	1.000 AC	1.0000/1.0000 1.0000/ /	\$35,500 /AC	\$35,500
0000	VAC RES (MKT)	8.694 AC	1.0000/1.0000 1.0000/ .7500000 /	\$26,625 /AC	\$231,478

Search Result: 1 of 0

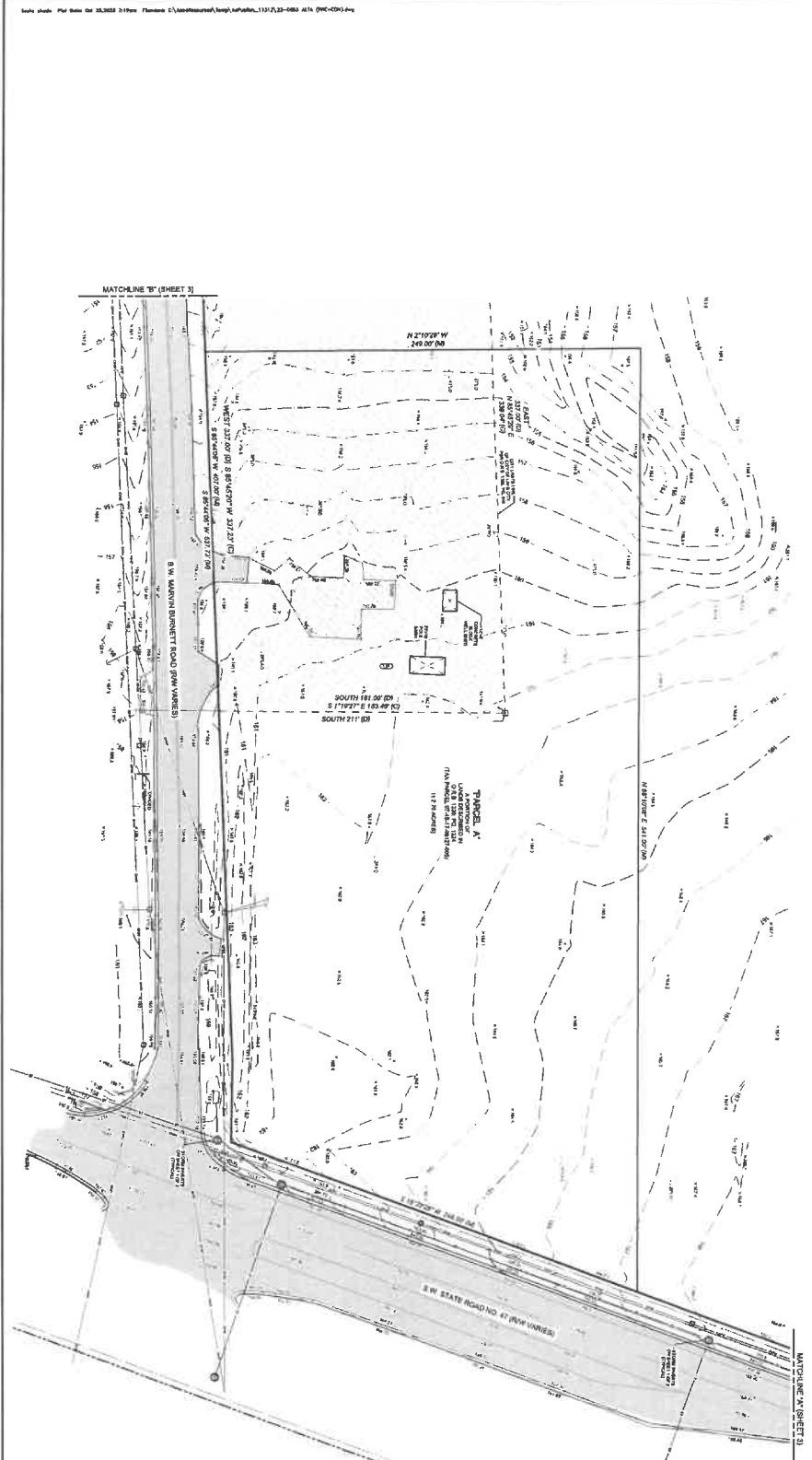
ALTAINSP6 LAND TITLE SURVEY LOCATED IN THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 1, TOWNSHIP 4 SOUTH, RANGE 17 EAST, CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA

- #### REMARKS:
- 1. CONVEYANCE FROM THE STATE TO THE CITY OF LAKE CITY, FLORIDA, BY DEED, BOOK 15, PAGE 5, AND BOOK 16, PAGE 1, HAS BEEN RECORDED.
 - 2. THE CITY OF LAKE CITY HAS COMPLETED THE DEED TO THE CITY OF LAKE CITY, FLORIDA, BY DEED, BOOK 15, PAGE 5, AND BOOK 16, PAGE 1.
 - 3. THE CITY OF LAKE CITY HAS COMPLETED THE DEED TO THE CITY OF LAKE CITY, FLORIDA, BY DEED, BOOK 15, PAGE 5, AND BOOK 16, PAGE 1.
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LEGEND

	• SURVEY POINT
	— BOUNDARY LINE
	- - - EASEMENT LINE
	○ SURVEY STATION
	— SURVEY LINE
	— SECTION BOUNDARY
	— TOWNSHIP BOUNDARY
	— RANGE BOUNDARY
	— TOWNSHIP SECTION BOUNDARY
	— TOWNSHIP QUARTER BOUNDARY
	— TOWNSHIP QUARTER SECTION BOUNDARY
	— TOWNSHIP QUARTER QUARTER BOUNDARY



<p>This map prepared by: CHAD A. COLSON <small>Professional Surveyor & Mapper Fla. License No. #142</small></p>	<p>DATE: 12-04-2023 PROJECT: 23-0653 <small>Professional Surveyor's Certification</small></p>	<p>SCALE: 1" = 30' <small>Graphic Scale</small></p>	<p>1801 Research Drive Altachua, Florida 32615 (352) 333-8378 www.cfw-inc.com Florida CA-5073</p>
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CONSTRUCTION PLANS

FOR:

COMMERCIAL RETAIL STORE

MARVIN BURNETT

LAKE CITY, FLORIDA

SECTION 7, TOWNSHIP 4 SOUTH, RANGE 17 EAST

SUBMITTED TO:

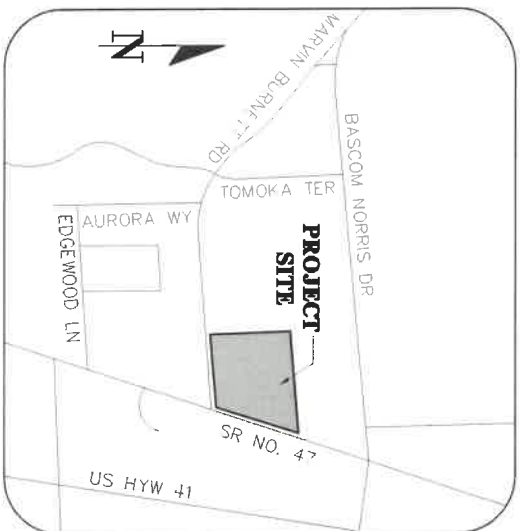
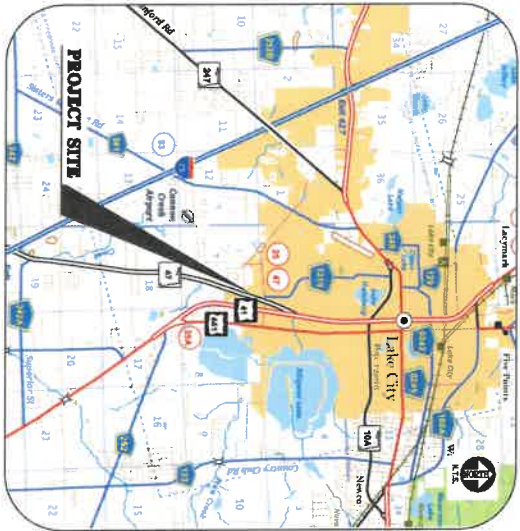
CITY OF LAKE CITY
 COLUMBIA COUNTY
 FLORIDA DEPARTMENT OF TRANSPORTATION
 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 SUWANNEE RIVER WATER MANAGEMENT DISTRICT

DEVELOPER/APPRAISER
 WATT CONN, PRESIDENT
 WATT CONN, INC.
 3324 W. JANDRETT AVE. #131
 AUSTIN, TX 78746
 (512) 353-9200

OWNER
 ST. JAMES LIMITED LIABILITY COMPANY
 1801 RESEARCH DRIVE
 AUSTIN, TX 78768
 (512) 353-9200

ENGINEER OF RECORD
 RYAN B. QUINN, P.E.
 1801 RESEARCH DRIVE
 AUSTIN, TX 78768
 (512) 353-9200

LANDSCAPE ARCHITECT
 BOBBIEN BROWN, INC.
 5400 W. JANDRETT AVE. #131
 AUSTIN, TX 78746
 (512) 353-9200



SHEET INDEX	
SHEET NUMBER	DESCRIPTION
00-00	COVER SHEET AND INDEX
00-01	GENERAL NOTES
00-02	ISLAND
00-03	STORMWATER POLLUTION PREVENTION NOTES
00-04	STORMWATER POLLUTION PREVENTION PLAN
00-05	STORMWATER POLLUTION PREVENTION DETAILS
00-06	EROSION CONTROL AND TREE PROTECTION PLAN
00-07	POSTER SITE PLAN
00-08	ACCESSORY SITE PLAN
00-09	LANDSCAPE PLAN
00-10	STORMWATER MANAGEMENT FACILITY PLAN AND DETAILS
00-11	CONSTRUCTION DETAILS
00-12	MASTER UTILITY PLAN
00-13	INTEGRATED DRILL PLAN AND MOBILE UTILITY DETAILS
00-14	ARCHITECTURAL ELEVATION AND ELEVATION
00-15	LANDSCAPE AND REVISION PLANS

DEVELOPMENT DATA	
ZONING: COMMERCIAL INTENSIVE (C1)	ON-SITE
FILE: COMMERCIAL (COMM)	10,840 S.F.
DEVELOPMENT AREA:	10,840 S.F.
BUILDING AREA:	44,788 S.F.
PERMITTED AREA:	10,840 S.F.
OPEN SPACE:	405
TAX ID: 107-41-17-06137-2006	
TYPE OF CONSTRUCTION: PER PER 2020, TYPE 3 B	



ABBREVIATIONS

1	ABOVE	UPPER
2	ADDITIONAL	EXTRA
3	ADJUSTABLE	ADJUSTABLE
4	ADJUSTING	ADJUSTING
5	ADJUSTMENT	ADJUSTMENT
6	ADJUSTMENTS	ADJUSTMENTS
7	ADJUSTMENTS	ADJUSTMENTS
8	ADJUSTMENTS	ADJUSTMENTS
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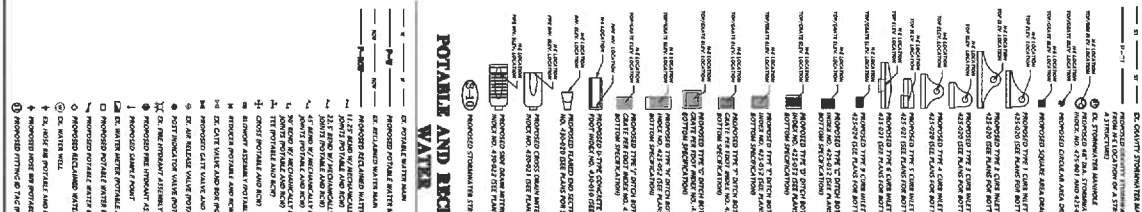
SIGNAGE



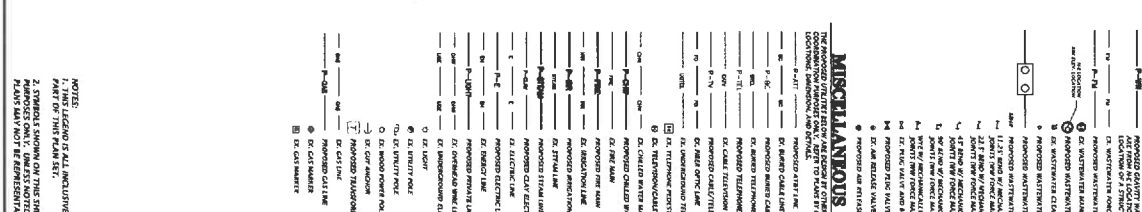
SITE INFORMATION



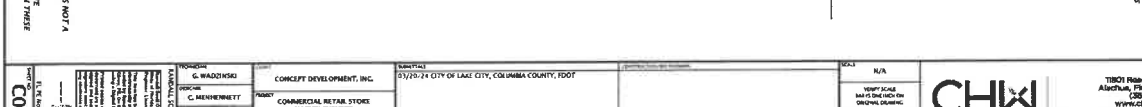
STORMWATER



WASTEWATER



MISCELLANEOUS UTILITIES



POTABLE AND RECLAIMED WATER



NOTES

1. THIS LEGEND IS ALL INCLUSIVE AND MAY INCLUDE ITEMS NOT A PART OF THIS PLAN SET.
2. SYMBOL SHOWN ON THE SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY AND ARE NOT BE REPRESENTATIVE OF SIZE.

CONCEPT DEVELOPMENT, INC.
COMMERCIAL RETAIL STORE
MAYNARD BUSINESS CENTER
3010 S. W. 12TH AVENUE
MIAMI, FL 33135
TEL: 305.441.1111
FAX: 305.441.1112

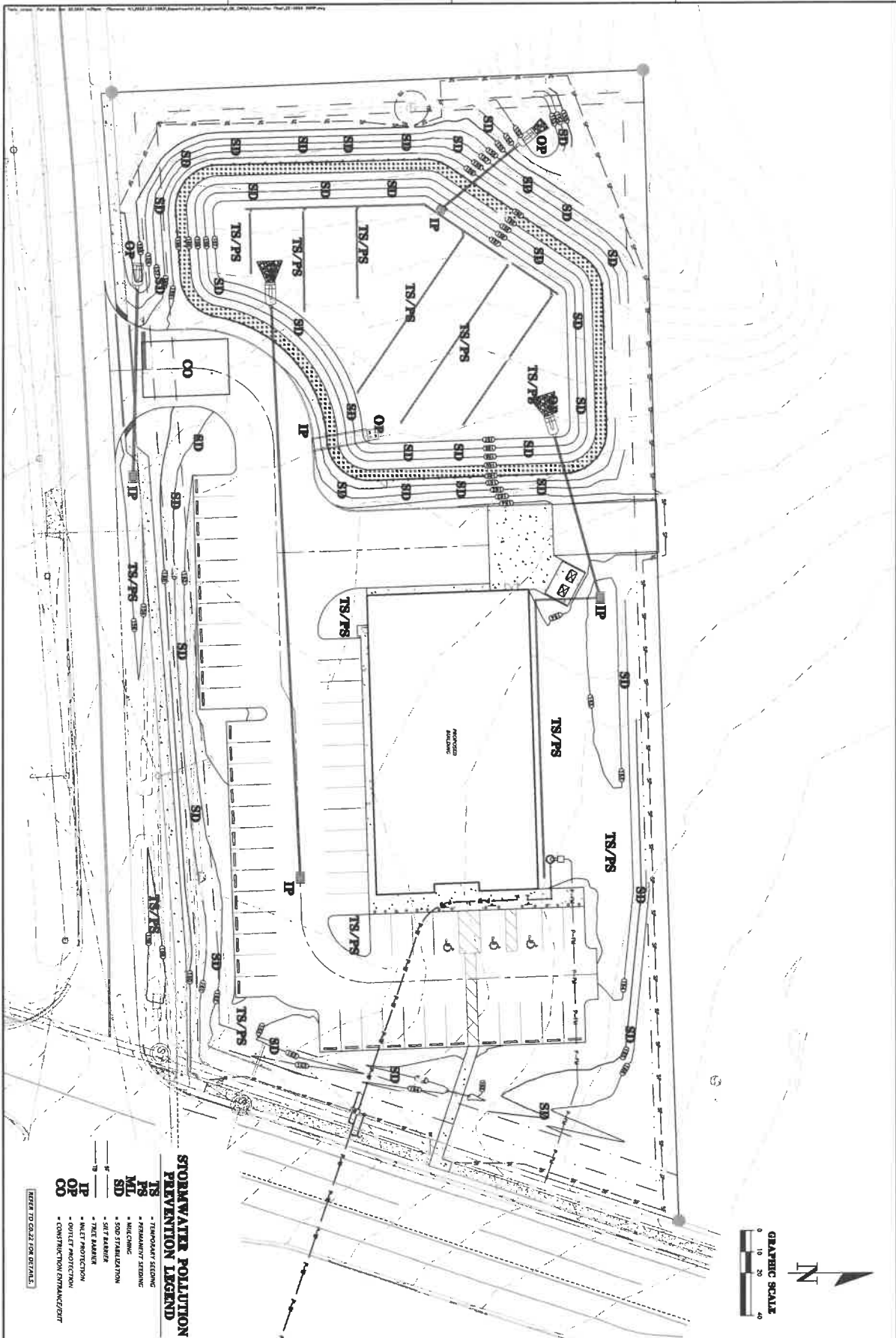
LEGEND
SYMBOLS
NOTES

11-2005 (continued) Florida Building Code, Part 905 - Mechanical Systems

11-2005 (continued) Florida Building Code, Part 905 - Mechanical Systems

11-2005 (continued) Florida Building Code, Part 905 - Mechanical Systems

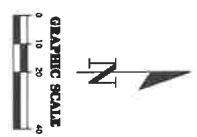
11-2005 (continued) Florida Building Code, Part 905 - Mechanical Systems



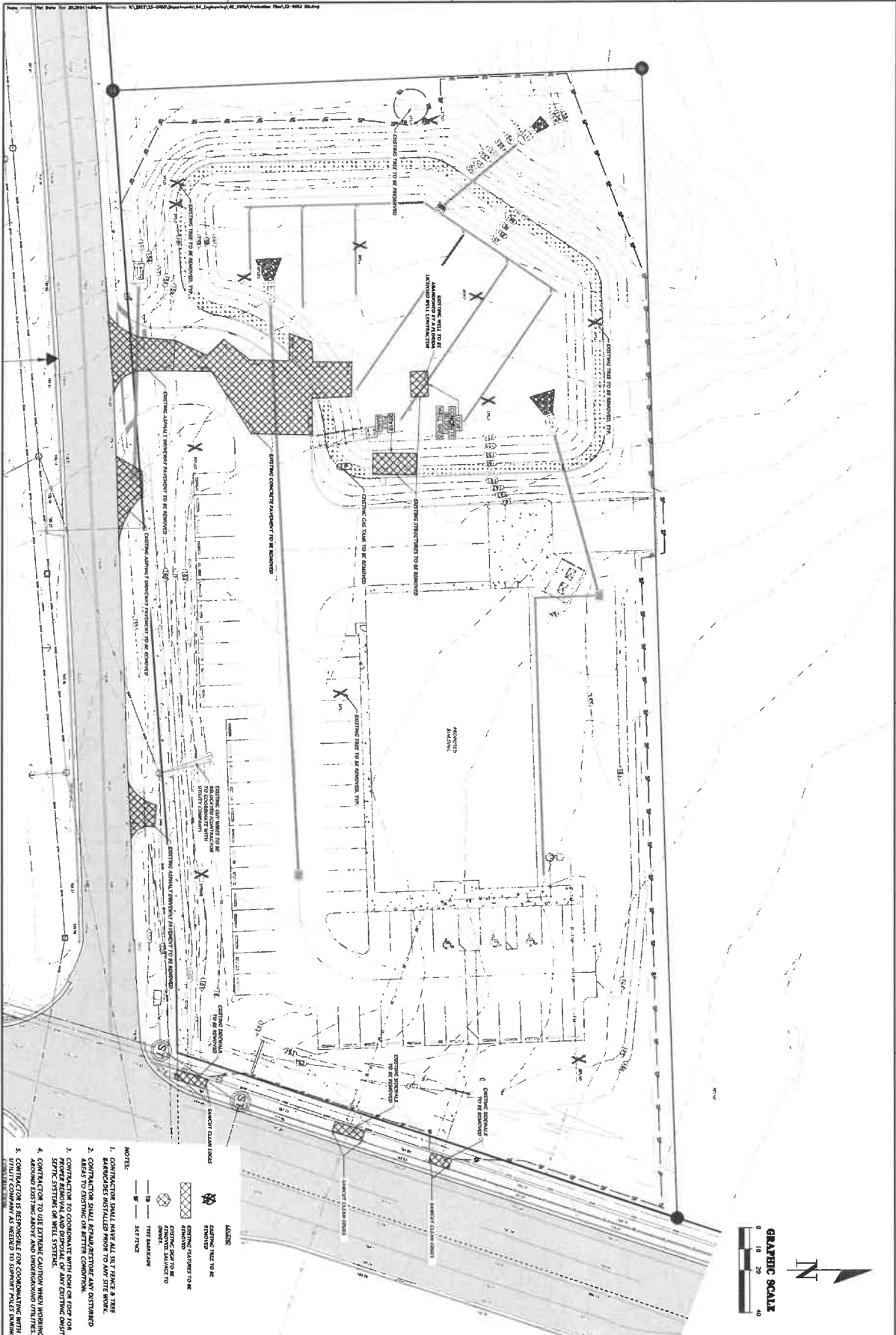
STORMWATER POLLUTION PREVENTION LEGEND

- TS - TEMPORARY SEEDING
- PS - PERMANENT SEEDING
- ML - MULCHING
- SD - SOD STABILIZATION
- IP - TREE BARRIERS
- OP - TRIPLE BARRIERS
- CO - TRIPLE BARRIERS

REFER TO CALLS FOR DETAILS



<p>CO.21</p> <p>DATE: 12/15/11</p> <p>PROJECT: COMMERCIAL RETAIL STORE</p> <p>LOCATION: 01/20/24 CITY OF LAKE CITY, COLUMBIA COUNTY, FL01</p> <p>SCALE: 1"=50'</p> <p>NOTES: 1. VERIFY SCALE 2. SEE ALL NOTES ON ORIGINAL DRAWING 3. THIS DRAWING IS A PRELIMINARY DESIGN 4. NOT FOR CONSTRUCTION 5. THIS DRAWING SHALL BE USED AS A GUIDE ONLY</p>	<p>DESIGNED BY: C. WADZINSKI</p> <p>DRAWN BY: C. WADZINSKI</p> <p>CHECKED BY: C. WADZINSKI</p> <p>DATE: 12/15/11</p>	<p>CONCEPT DEVELOPMENT, INC.</p> <p>COMMERCIAL RETAIL STORE</p> <p>LAKE CITY, FL</p> <p>STORMWATER POLLUTION PREVENTION PLAN</p>	<p>DATE: 12/15/11</p> <p>PROJECT: COMMERCIAL RETAIL STORE</p> <p>LOCATION: 01/20/24 CITY OF LAKE CITY, COLUMBIA COUNTY, FL01</p> <p>SCALE: 1"=50'</p>	<p>CHM</p> <p>Professional Engineers</p>	<p>1801 Research Drive Alachua, Florida 32006 (904) 235-9779 www.chm-inc.com</p> <p>est. 1988 FLORIDA CA-6078</p>
	<p>PROJECT: COMMERCIAL RETAIL STORE</p> <p>LOCATION: 01/20/24 CITY OF LAKE CITY, COLUMBIA COUNTY, FL01</p> <p>SCALE: 1"=50'</p>	<p>DATE: 12/15/11</p> <p>PROJECT: COMMERCIAL RETAIL STORE</p> <p>LOCATION: 01/20/24 CITY OF LAKE CITY, COLUMBIA COUNTY, FL01</p> <p>SCALE: 1"=50'</p>	<p>DATE: 12/15/11</p> <p>PROJECT: COMMERCIAL RETAIL STORE</p> <p>LOCATION: 01/20/24 CITY OF LAKE CITY, COLUMBIA COUNTY, FL01</p> <p>SCALE: 1"=50'</p>	<p>DATE: 12/15/11</p> <p>PROJECT: COMMERCIAL RETAIL STORE</p> <p>LOCATION: 01/20/24 CITY OF LAKE CITY, COLUMBIA COUNTY, FL01</p> <p>SCALE: 1"=50'</p>	<p>DATE: 12/15/11</p> <p>PROJECT: COMMERCIAL RETAIL STORE</p> <p>LOCATION: 01/20/24 CITY OF LAKE CITY, COLUMBIA COUNTY, FL01</p> <p>SCALE: 1"=50'</p>



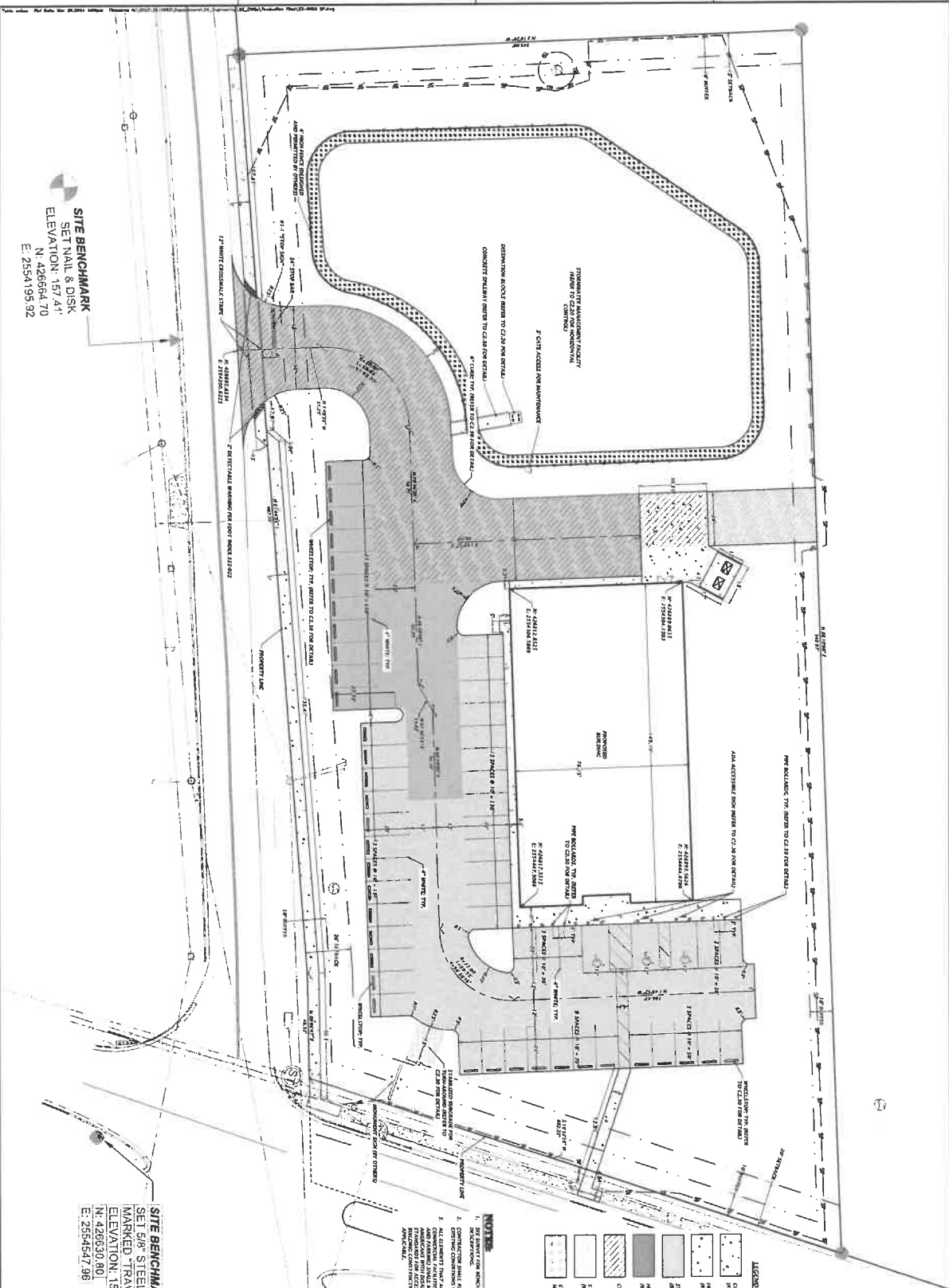
- NOTES:**
1. CONTRACTOR SHALL MARK ALL SET POINTS & TREE LOCATIONS TO BE REMOVED TO BE DEMOLISHED WITH CHAINS TO BE REMOVED TO BE DEMOLISHED.
 2. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES TO REMAIN.
 3. CONTRACTOR TO COORDINATE WITH LOCAL OR DWP FOR PROPER REMOVAL AND DISPOSAL OF ANY EXISTING DRAINAGE SYSTEMS OR WELL SYSTEMS.
 4. CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING AROUND EXISTING UTILITIES AND UNDERGROUND UTILITIES.
 5. CONTRACTOR TO MAINTAIN ALL EXISTING UTILITIES TO REMAIN.

PROJECT NO.	23-0653
DATE	01/20/24
CLIENT	CONCEPT DEVELOPMENT, INC.
PROJECT	COMMERCIAL RETAIL STORE MAYNARD SQUARE
DATE	01/20/24
LOCATION	01/20/24 CITY OF LAKE CITY, COLUMBIA COUNTY, FL 3201
DESCRIPTION	DEMOLITION AND TREE PRESERVATION PLAN

DESIGNED BY	G. WADZINSKI
CHECKED BY	G. WADZINSKI
APPROVED BY	B. OLNEY, P.E.
SCALE	1"=20'
DATE	01/20/24
PROJECT	COMMERCIAL RETAIL STORE MAYNARD SQUARE
LOCATION	01/20/24 CITY OF LAKE CITY, COLUMBIA COUNTY, FL 3201
DESCRIPTION	DEMOLITION AND TREE PRESERVATION PLAN

CHW
Professional Consultants

1801 Research Drive
Alachua, Florida 32018
(352) 221-9778
www.chw-inc.com
inc. 1988 FLORIDA
CA-5078



NOTES

- SEE SURVEY FOR DIMENSIONS, ELEVATIONS, LOCATIONS, AND BEARINGS.
- CONCRETE PAVEMENT SHALL BE 4" THICK AND SHALL BE FINISHED TO MATCH EXISTING CONCRETE PAVEMENT.
- ASPHALT DRIVEWAYS SHALL BE FINISHED TO MATCH EXISTING ASPHALT DRIVEWAYS.
- PROPOSED PARKING SHALL BE FINISHED TO MATCH EXISTING PARKING.
- EXISTING PARKING SHALL BE FINISHED TO MATCH EXISTING PARKING.
- PROPERTY LINE SHALL BE FINISHED TO MATCH EXISTING PROPERTY LINE.
- UTILITY LINE SHALL BE FINISHED TO MATCH EXISTING UTILITY LINE.

G. WADZINSKI
G. McINNIS
R. OLMLEY, P.E.

CONCEPT DEVELOPMENT, INC.
COMMERCIAL RETAIL STORE
MARKED "TRAY"

23-0953

DATE: 12/10/2013

SCALE: 1" = 40'

C1.00

DATE: 12/10/2013

SCALE: 1" = 40'

C1.00

DATE: 12/10/2013

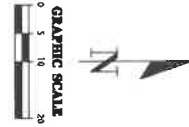
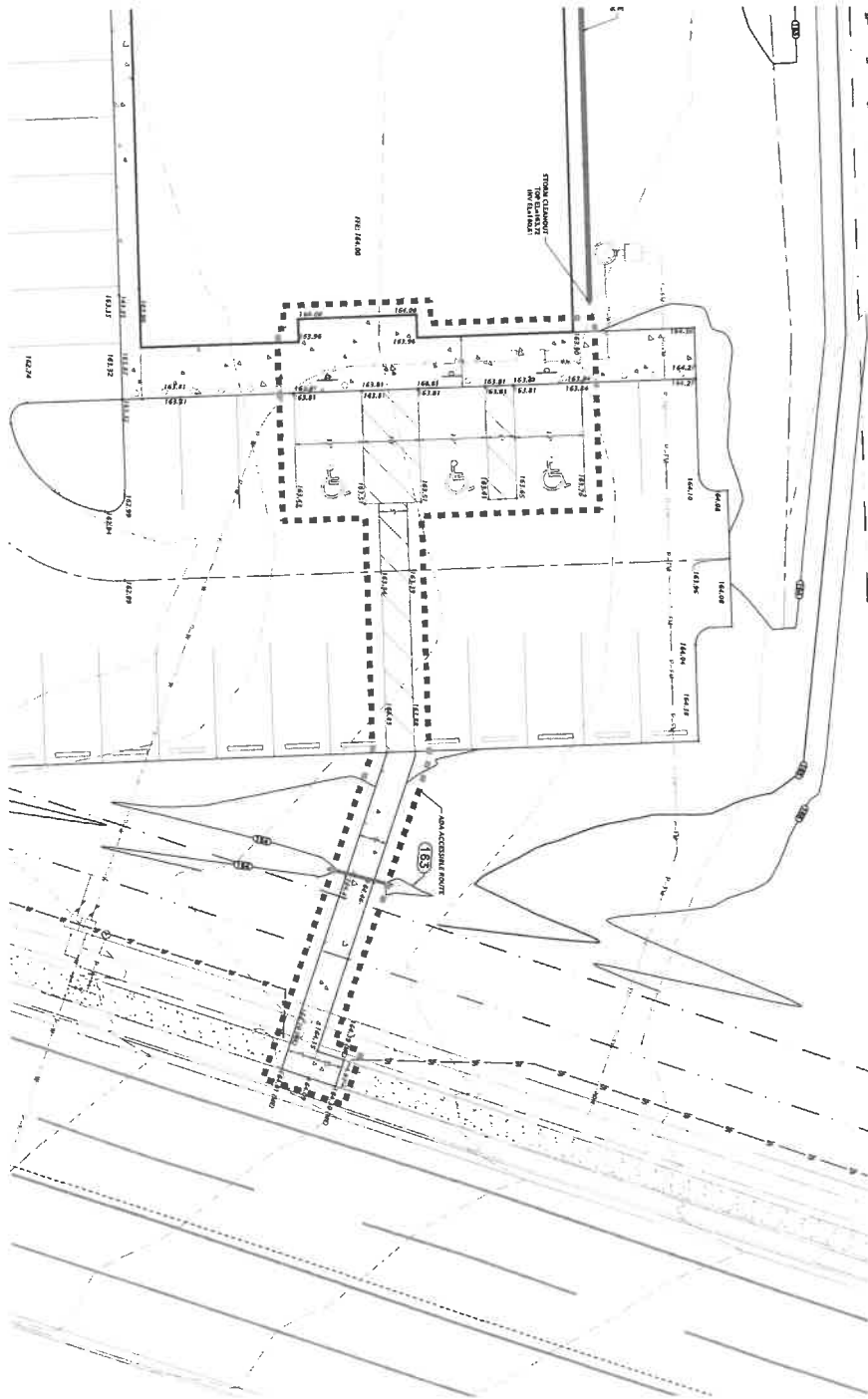
SCALE: 1" = 40'

C1.00

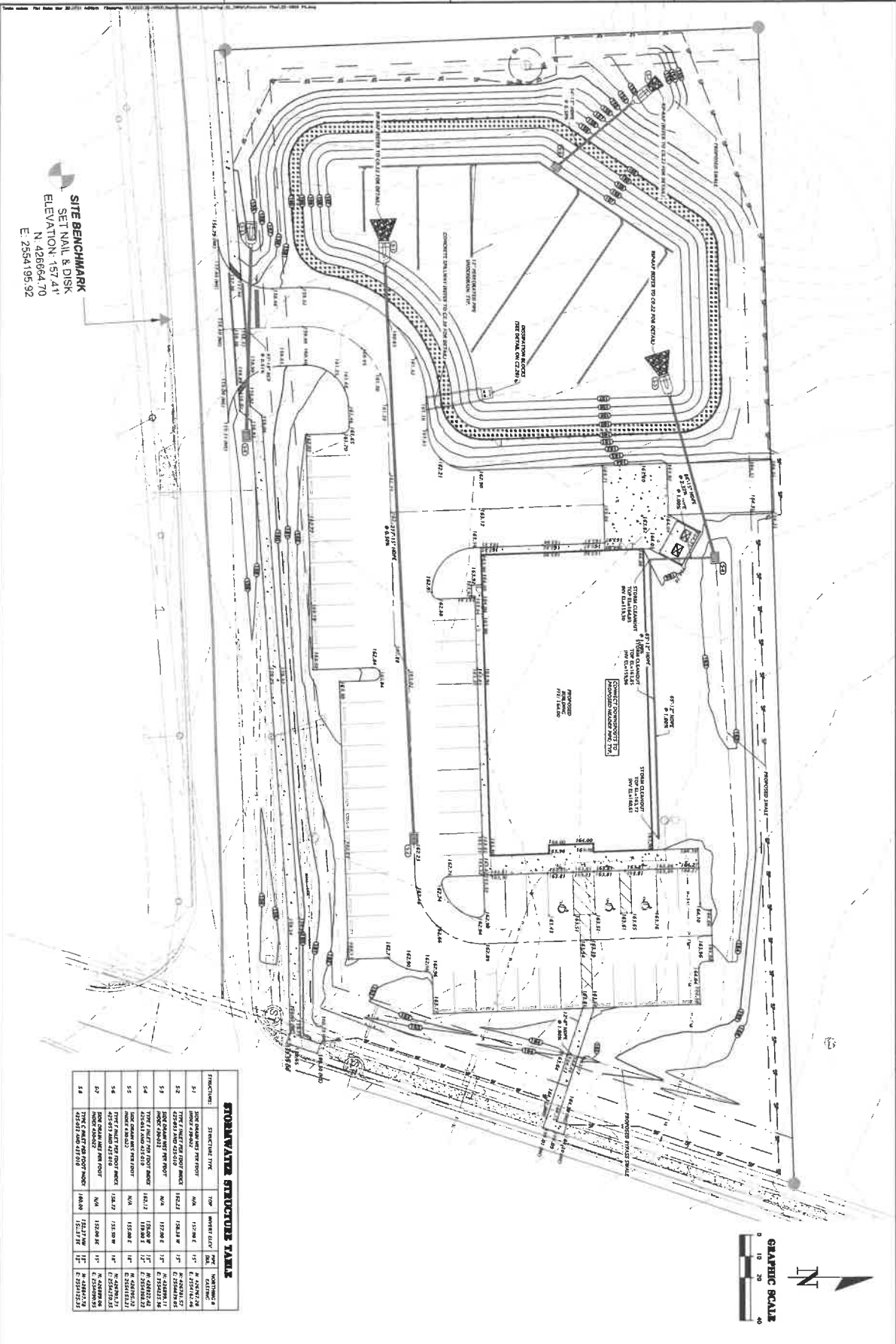
CHM
Professional Consulting

1800 Research Drive
Alachua, Florida 32818
Phone: 352-347-7777
www.chm-fla.com

FLORIDA
CA-5008



CI.20 Civil Engineering Professional Seal No. 0000011111	PROJECT: CONCEPT DEVELOPMENT, INC. LOCATION: 01210/214 CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA	SHEET: ACCESSIBILITY PLAN	DATE: 12/17/13
	DESIGNER: G. WARDINSKI CHECKER: C. M. HERRIN CLIENT: CONCEPT DEVELOPMENT, INC. PROJECT: COMMERCIAL RETAIL STORE PROJECT NUMBER: 23-0653	SITE: 01210/214 CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA	SCALE: 1"=10' NOTES: 1. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE. 2. THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE ACCESSIBILITY PLAN FOR THE SAME PROPERTY.

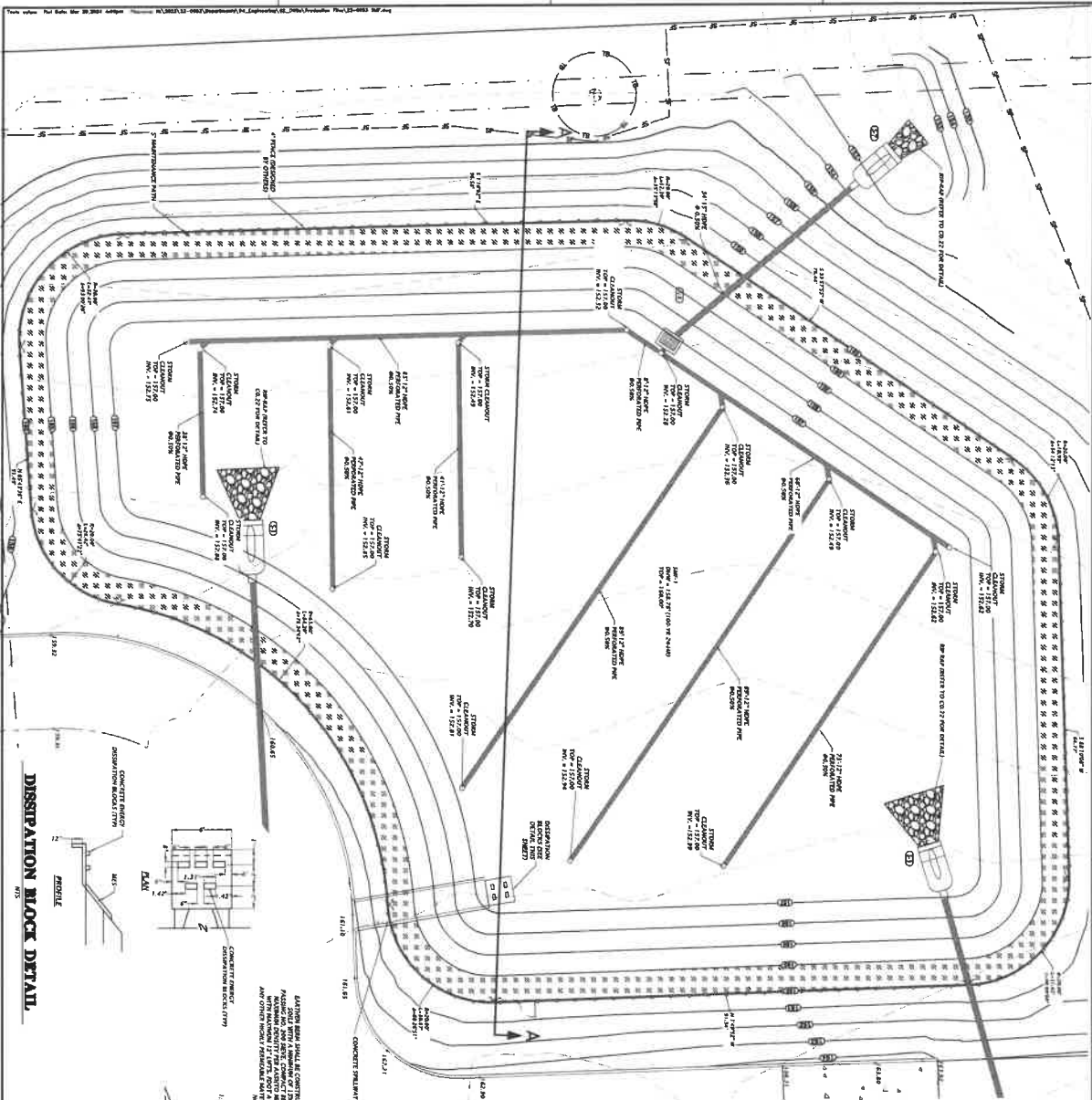


SITE BENCHMARK
 SET NAIL & DISK
 ELEVATION: 157.41'
 N. 428684.70
 E. 2584195.92

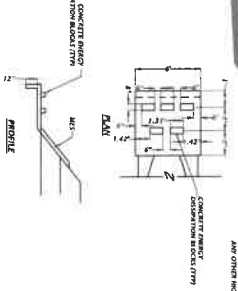
STORMWATER STRUCTURE TABLE

FUNCTION	STRUCTURE TYPE	TYPE	HEIGHT (FT)	NO.	NOTES
S1	30" DIAMETER PRECAST CONCRETE MANHOLE	MAN	15.00	1	15.00
S2	48" DIAMETER PRECAST CONCRETE MANHOLE	MAN	15.00	1	15.00
S3	60" DIAMETER PRECAST CONCRETE MANHOLE	MAN	15.00	1	15.00
S4	72" DIAMETER PRECAST CONCRETE MANHOLE	MAN	15.00	1	15.00
S5	90" DIAMETER PRECAST CONCRETE MANHOLE	MAN	15.00	1	15.00
S6	108" DIAMETER PRECAST CONCRETE MANHOLE	MAN	15.00	1	15.00
S7	120" DIAMETER PRECAST CONCRETE MANHOLE	MAN	15.00	1	15.00
S8	144" DIAMETER PRECAST CONCRETE MANHOLE	MAN	15.00	1	15.00

<p>CHW Professional Consultants</p> <p>1801 Research Drive Alachua, Florida 32009 850.333.9778 www.chw-inc.com</p> <p>EST. 1989 FLORIDA CA-8078</p>	<p>DATE: 11-20-07</p> <p>SCALE: 1"=20'</p> <p>DESIGNED BY: [Name]</p> <p>CHECKED BY: [Name]</p> <p>IN CHARGE: [Name]</p> <p>APPROVED BY: [Name]</p>	<p>PROJECT: CONCEPT DEVELOPMENT, INC.</p> <p>SUBJECT: COMMERCIAL RETAIL STORE</p> <p>LOCATION: 24 CITY OF LAKE CITY, COLUMBIA COUNTY, FL07</p> <p>DATE: 11/20/07</p> <p>PROJECT NO: 23-0653</p>	<p>OWNER: CONCEPT DEVELOPMENT, INC.</p> <p>DESIGNER: G. WARD/MSI</p> <p>ARCHITECT: G. WARD/MSI</p> <p>ENGINEER: R. CHURCH, P.A.</p>	<p>PROJECT COST: \$2,000,000</p>
		<p>23-0653</p>		<p>CONCRETE AND DRAINAGE PLAN</p>

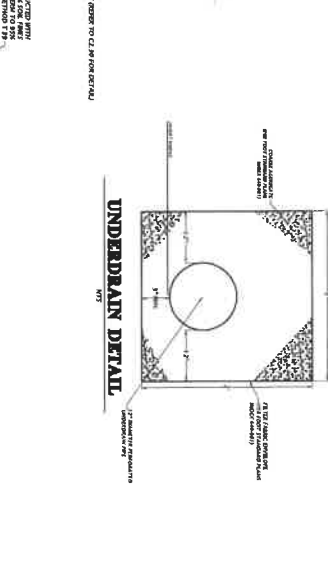


DISSIPATION HOOD DETAIL

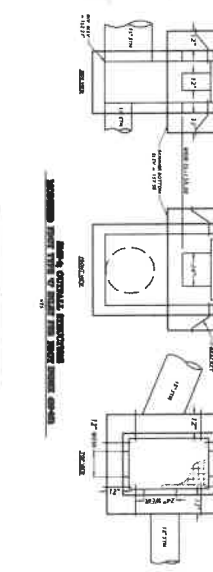


1. 2" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.
2. 2" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.
3. 2" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.
4. 4" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.

STORMWATER MANAGEMENT FACILITY #1 CROSS SECTION A-A



1. 4" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.
2. 4" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.
3. 4" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.
4. 4" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.



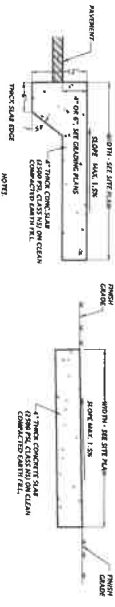
1. 4" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.
2. 4" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.
3. 4" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.
4. 4" MINIMUM THICKNESS OF CONCRETE AT THE BASE OF THE COLUMN AT THE POINT OF CONNECTION TO THE DISSIPATION HOOD.

STORMWATER STRUCTURE TABLE

STRUCTURE	STRUCTURE TYPE	TOP	INTERIOR FIN	EXTERIOR FIN	FINISHING
S1	4000 GAL. WATER TANK	104.00	104.00	104.00	104.00
S2	1000 GAL. WATER TANK	104.00	104.00	104.00	104.00
S3	2000 GAL. WATER TANK	104.00	104.00	104.00	104.00
S4	3000 GAL. WATER TANK	104.00	104.00	104.00	104.00
S5	4000 GAL. WATER TANK	104.00	104.00	104.00	104.00
S6	5000 GAL. WATER TANK	104.00	104.00	104.00	104.00
S7	6000 GAL. WATER TANK	104.00	104.00	104.00	104.00
S8	7000 GAL. WATER TANK	104.00	104.00	104.00	104.00



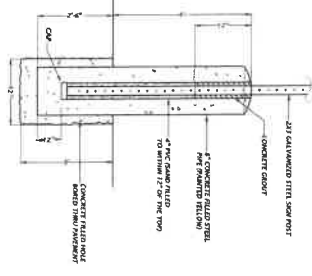
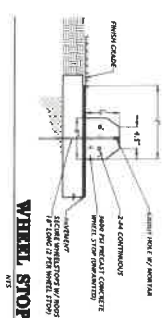
PROJECT: COMMERCIAL RETAIL STORE
 CLIENT: CONCEPT DEVELOPMENT, INC.
 LOCATION: 2415 1/2 ST. OF LAKE CITY, COLUMBIA COUNTY, FLORIDA
 DRAWING NO: C-220
 DATE: 08/12/2010
 SCALE: AS SHOWN
 DESIGNER: CHM PROFESSIONAL CONSULTANTS
 1801 Research Drive, Altamonte, Florida 32714
 (407) 831-9200
 www.chm-pro.com
 REG. NO. 10000
 REG. STATE: FLORIDA
 CA-0019



ADJACENT TO PAVEMENT
CONCRETE SIDEWALK DETAILS
NOT ADJACENT TO PAVEMENT
CONCRETE SIDEWALK DETAILS

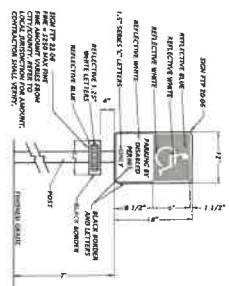


STABILIZED TURNOVER DETAIL

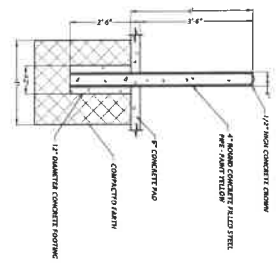


BOLLARD & ACCESSIBLE SIGN DETAIL

ACCESSIBLE PARKING SIGN DETAIL



PIPE BOLLARD DETAIL



STANDARD DUTY ASPHALT DETAIL

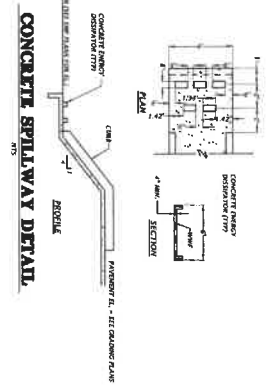


HEAVY DUTY ASPHALT DETAIL

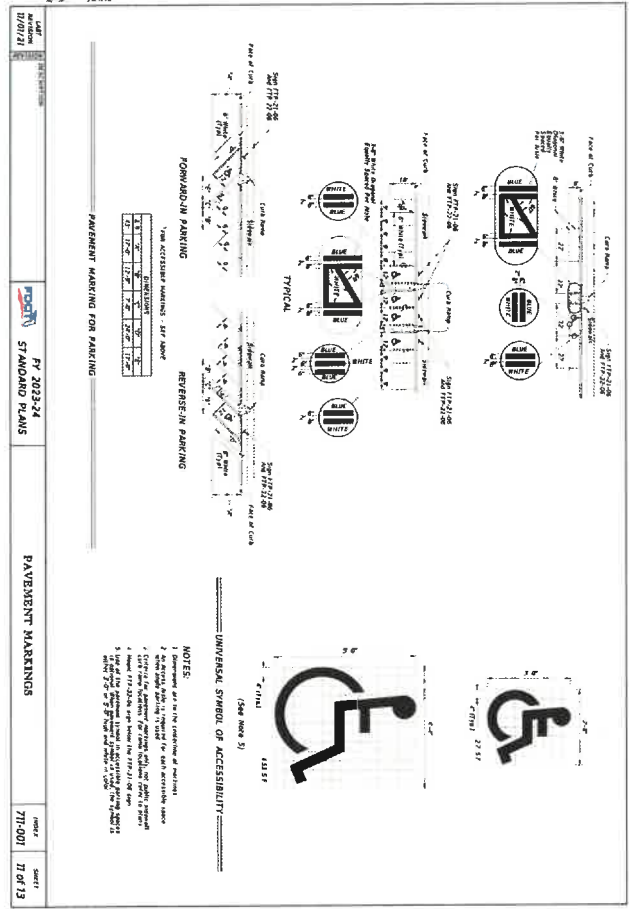
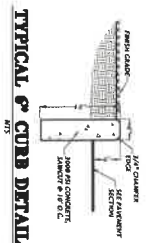


ASPHALT PAVEMENT DETAILS

CONCRETE SPILLWAY DETAIL



TYPICAL 6" CURB DETAIL

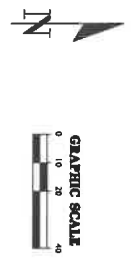


BOLLARD & ACCESSIBLE SIGN DETAIL

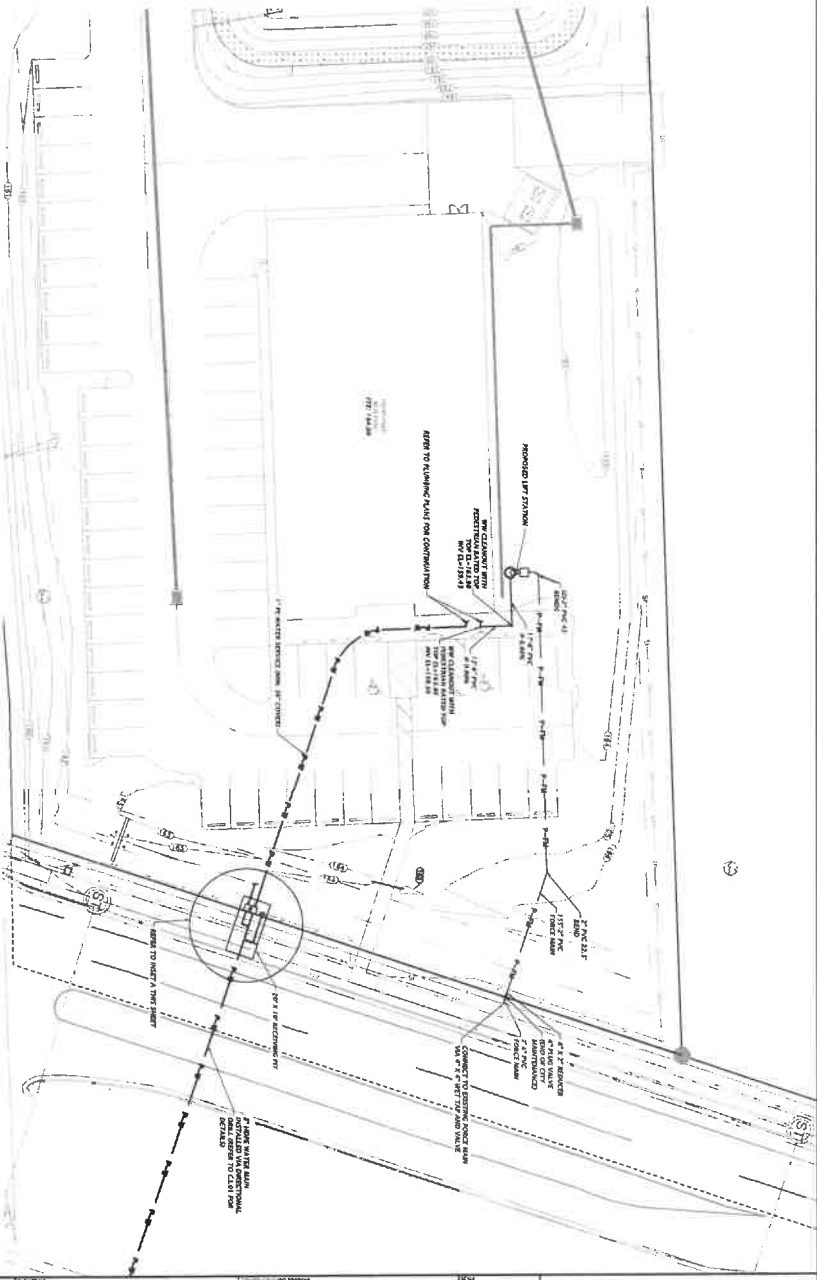
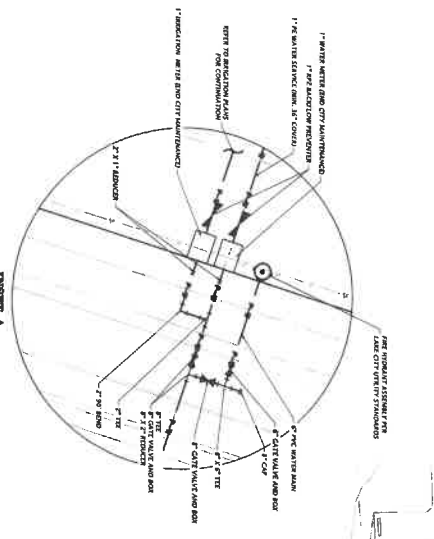
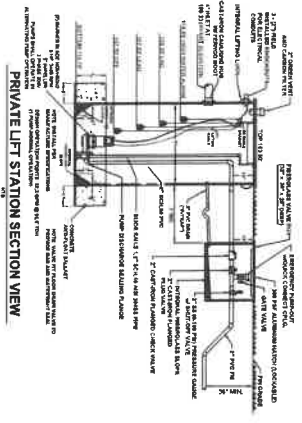
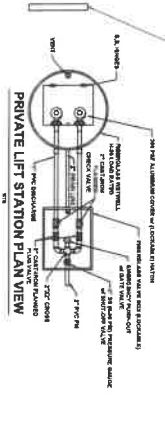
ACCESSIBLE PARKING SIGN DETAIL

PARKING MARKINGS FOR PARKING

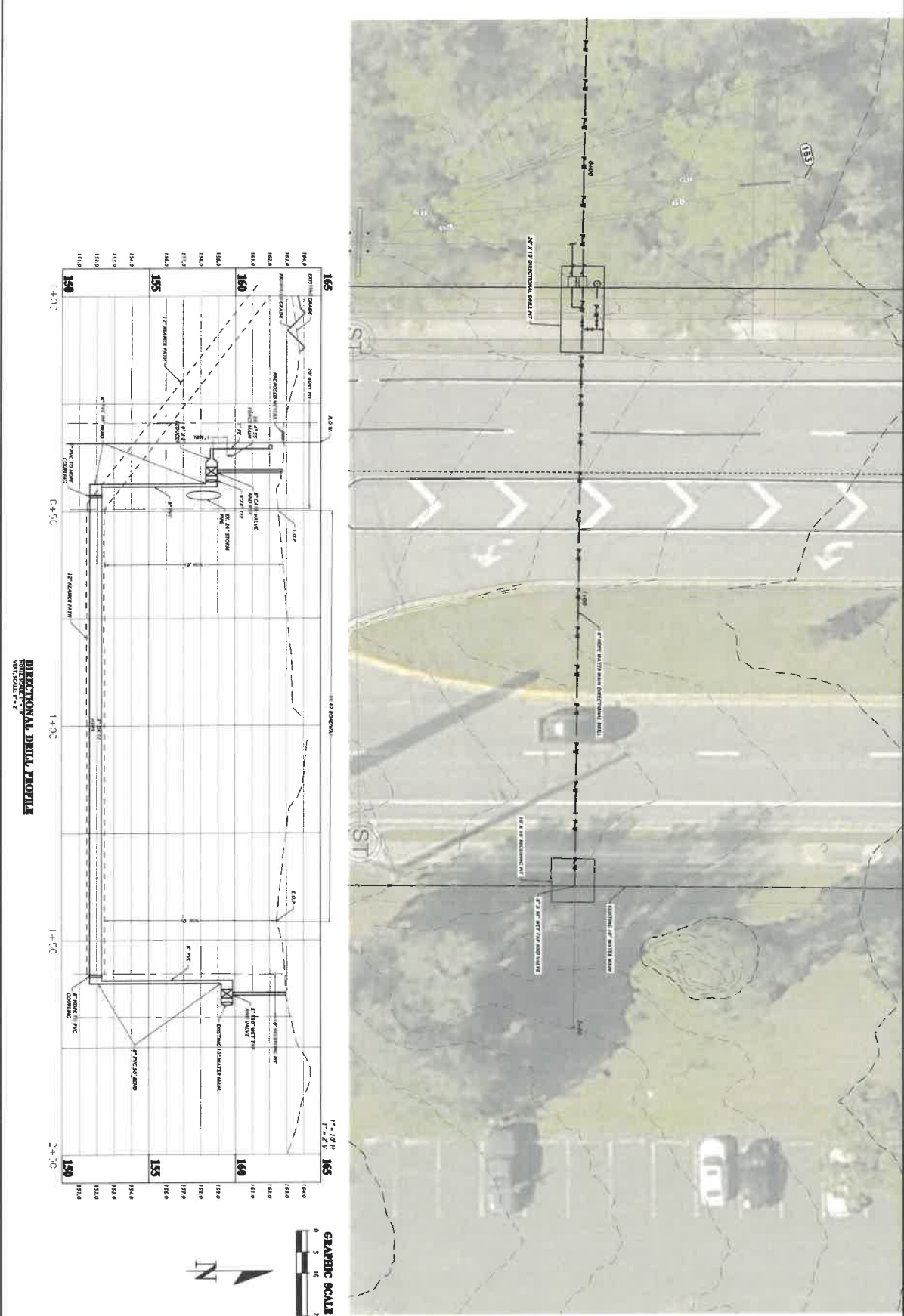
PAYMENT MARKINGS



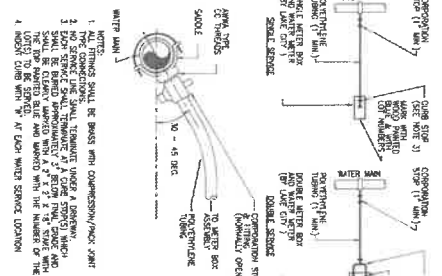
NOT TO SCALE / CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.



<p>DATE: 03/22/24 SCALE: 1"=40'</p>	<p>PROJECT: 23-0653</p>	<p>CLIENT: CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA</p>	<p>DATE: 03/22/24</p>	<p>SCALE: 1"=40'</p>	<p>PROJECT: 23-0653</p>	<p>1801 Research Drive Alicia, Florida 32006 352-333-9776 www.cdm-inc.com</p>
	<p>DESIGNER: G. WADSWORTH DRAWN: C. MENHART CHECKED: B. OLNEY, P.E.</p>	<p>CONCEPT DEVELOPMENT, INC. COMMERCIAL RETAIL STORE MARKY BURNETT</p>				

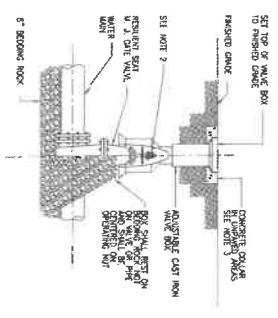


3.01 <small>DATE PLOTTED: 03/24/2014 10:27 AM</small> <small>SCALE: 1"=10'-0"</small> <small>VERTICAL SCALE: 1"=2'-0"</small>	PROJECT: CONCEPT DEVELOPMENT, INC. CLIENT: CITY OF LAKE CITY, COLUMBIA COUNTY, FL01 DESIGNER: COMMERCIAL RETAIL/STOLE DATE: 03/24/2014 PROJECT NO.: 23-0653	DATE: 03/22/14 PROJECT: CITY OF LAKE CITY, COLUMBIA COUNTY, FL01 DISCIPLINE: CONCEPT DEVELOPMENT, INC. SCALE: 1"=10'-0"	DATE: 03/22/14 PROJECT: CITY OF LAKE CITY, COLUMBIA COUNTY, FL01 DISCIPLINE: CONCEPT DEVELOPMENT, INC. SCALE: 1"=10'-0"
	DESIGNER: COMMERCIAL RETAIL/STOLE DATE: 03/24/2014 PROJECT NO.: 23-0653	DATE: 03/22/14 PROJECT: CITY OF LAKE CITY, COLUMBIA COUNTY, FL01 DISCIPLINE: CONCEPT DEVELOPMENT, INC. SCALE: 1"=10'-0"	DATE: 03/22/14 PROJECT: CITY OF LAKE CITY, COLUMBIA COUNTY, FL01 DISCIPLINE: CONCEPT DEVELOPMENT, INC. SCALE: 1"=10'-0"



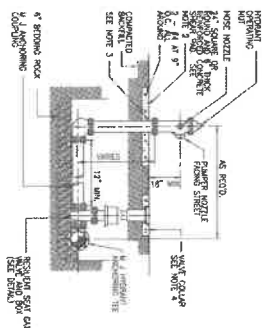
1. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/POSS JANT
2. ALL COMPRESSIONS SHALL BE TIGHTENED UNDER A TORQUE
3. EXISTING SERVICE SHALL REMAIN UNDER A TORQUE
4. VALVE SHALL BE CLEARLY MARKED WITH A "2" x 4" x 1/2" STAKE WITH LETTERS "WATER VALVE" AND SHOWN WITH THE NUMBER OF THE 4 INCH CURB WITH "W" AT EACH WATER SERVICE LOCATION

CITY OF LAKE CITY
 WATER SERVICE CONNECTION DETAILS
 Date: _____ Revision: _____
 Scale: 1/8" = 1'-0" (See N.T.S. Page 002) (P. 002)



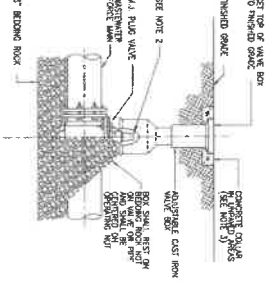
1. THE FOUNDATION SHALL NOT BE 120\"/>
- 2. THE FINISHING MAT FOR DEPTH VALVE SHALL BE ATTACHED TO VALVE COLUMN SHALL BE 12\"/>
- 3. COLUMN W/4 - 4\"/>

CITY OF LAKE CITY
 GATE VALVE AND BOX DETAIL
 Date: _____ Revision: _____
 Scale: 1/8" = 1'-0" (See N.T.S. Page 002) (P. 002)



1. FOUNDATION SHALL BE SLOPED PROTECT A WATER VALVE
2. THE FINISHING MAT FOR DEPTH VALVE SHALL BE ATTACHED TO VALVE COLUMN SHALL BE 12\"/>
- 3. SLOPED BETWEEN BOTTOM OF BOXES AND TOP OF SPOKE PAD
- 4. VALVE COLUMN SHALL BE 18\"/>

CITY OF LAKE CITY
 FIRE HYDRANT ASSEMBLY DETAIL
 Date: _____ Revision: _____
 Scale: 1/8" = 1'-0" (See N.T.S. Page 002) (P. 002)

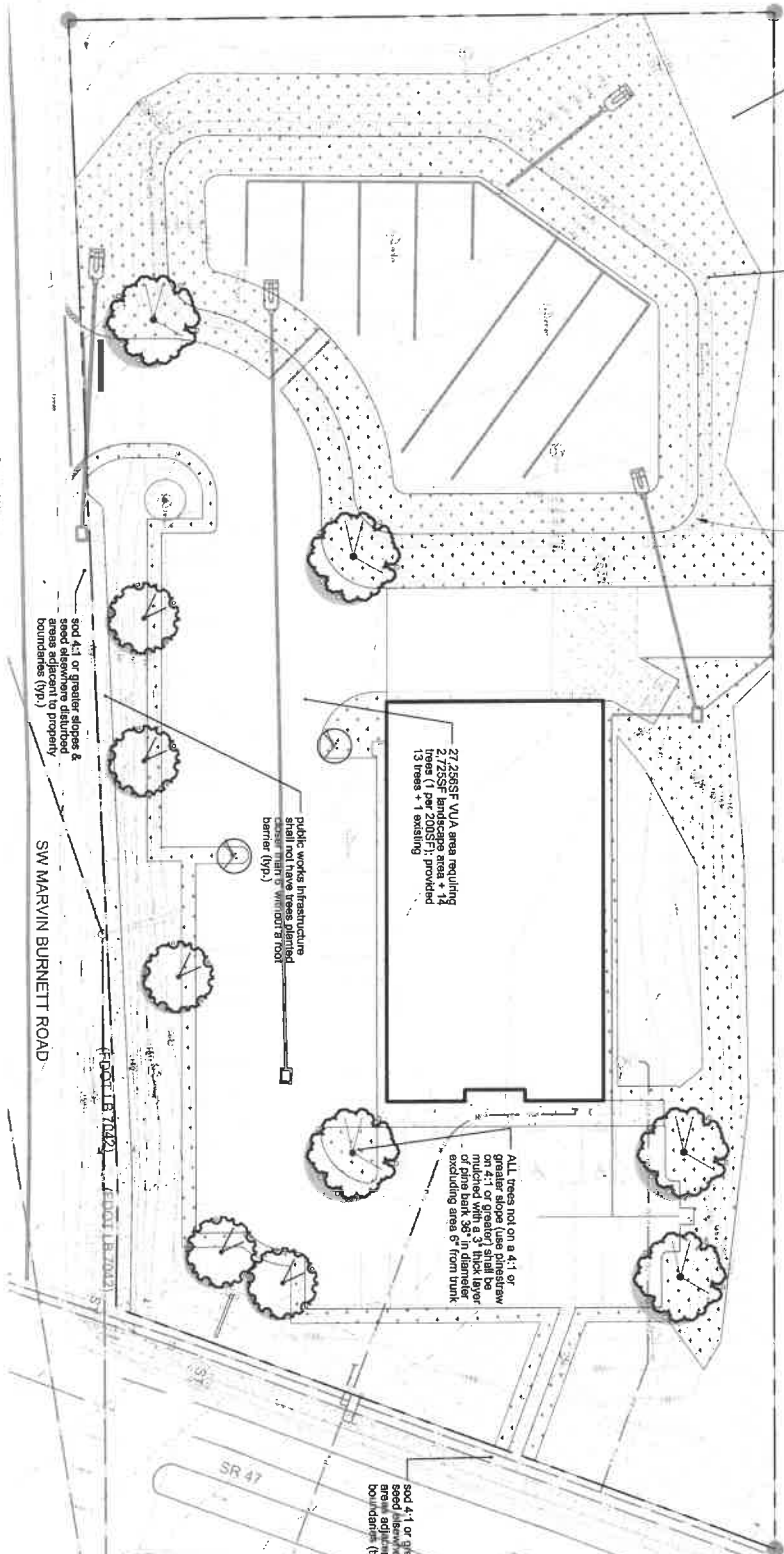


1. THE FOUNDATION SHALL NOT BE 120\"/>
- 2. THE FINISHING MAT FOR DEPTH VALVE SHALL BE ATTACHED TO VALVE COLUMN SHALL BE 12\"/>
- 3. COLUMN W/4 - 4\"/>

CITY OF LAKE CITY
 FLUSH VALVE AND BOX DETAIL
 Date: _____ Revision: _____
 Scale: 1/8" = 1'-0" (See N.T.S. Page 002) (P. 002)

seed/ mulch all disturbed areas NOT including 4:1 slopes

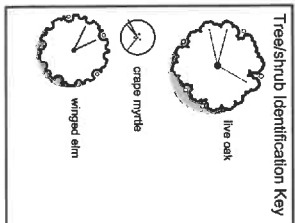
sod ALL 4:1 or greater slopes



Quantity	Abbr.	Botanical Name /	Size / Caliper	Spacing	Comments
5		<i>Quercus virginiana</i>	4HT	per plan	
5		<i>Ulmus alba</i>	4HT	per plan	
2		<i>Lagerstroemia indica</i> 'Natchez'	4HT	per plan	
		<i>Crape myrtle</i>			
Groundcovers					
2755SF		<i>Poaa Barz</i> 'Nuggets'	3" layer		
32894SF		<i>Paspalum nodatum</i> 'Argentine'	3" layer		
39652SF		<i>Pennisetum</i> 'Asian Scissors'	3" layer		
0	AJ	<i>T. radicans</i> 'Mantini'	IGAL, full	20C	
0	PP	<i>Arachis glabrata</i> 'Ecoturf'	1G	20C	
0		<i>Pennisetum</i>			

- General Notes**
- Contractor shall provide proposed soil amendment quantities on bid form to ensure healthy vigorous growth of plant material. Lateral movement of irrigation water within soil & soil nutrient holding capacity.
 - Any vegetation planted adjacent to a parking stall where it may interfere with a vehicle's door opening shall be offset 2' from back of curb. Trim plant material as needed to keep a 6" clearance from back of curb in these areas.
 - All proposed slopes of curb pavement shall be composed of a compressed 3" thick layer of mulch. Top of mulch shall be 1/2" below edge of adjacent surface so mulch has a containment edge.
 - ALL proposed sod areas adjacent to edge of curtpavement shall be excavated so the sod does not impede water runoff into the pervious areas.
 - All revisions shall be submitted to Lake City for review and approval prior to installation.

Soil Health
Soil testing and soil composition has not been tested. Contractor excavate 2' depth all material used in construction of parking lot and buildings under plant beds and of mill with suitable soil and amendments to support healthy growth.



LS-01

PLANS PREPARED BY
BRIAN DAVO BORTON FL
NO. LA887028

Brian D
Borton
3023 12.1
09:06:51

BOI NO. 24200
DRAWN BY: BDB
DESIGNED BY: BDB
CHECKED BY: BDB
DATE: 12/19/2023

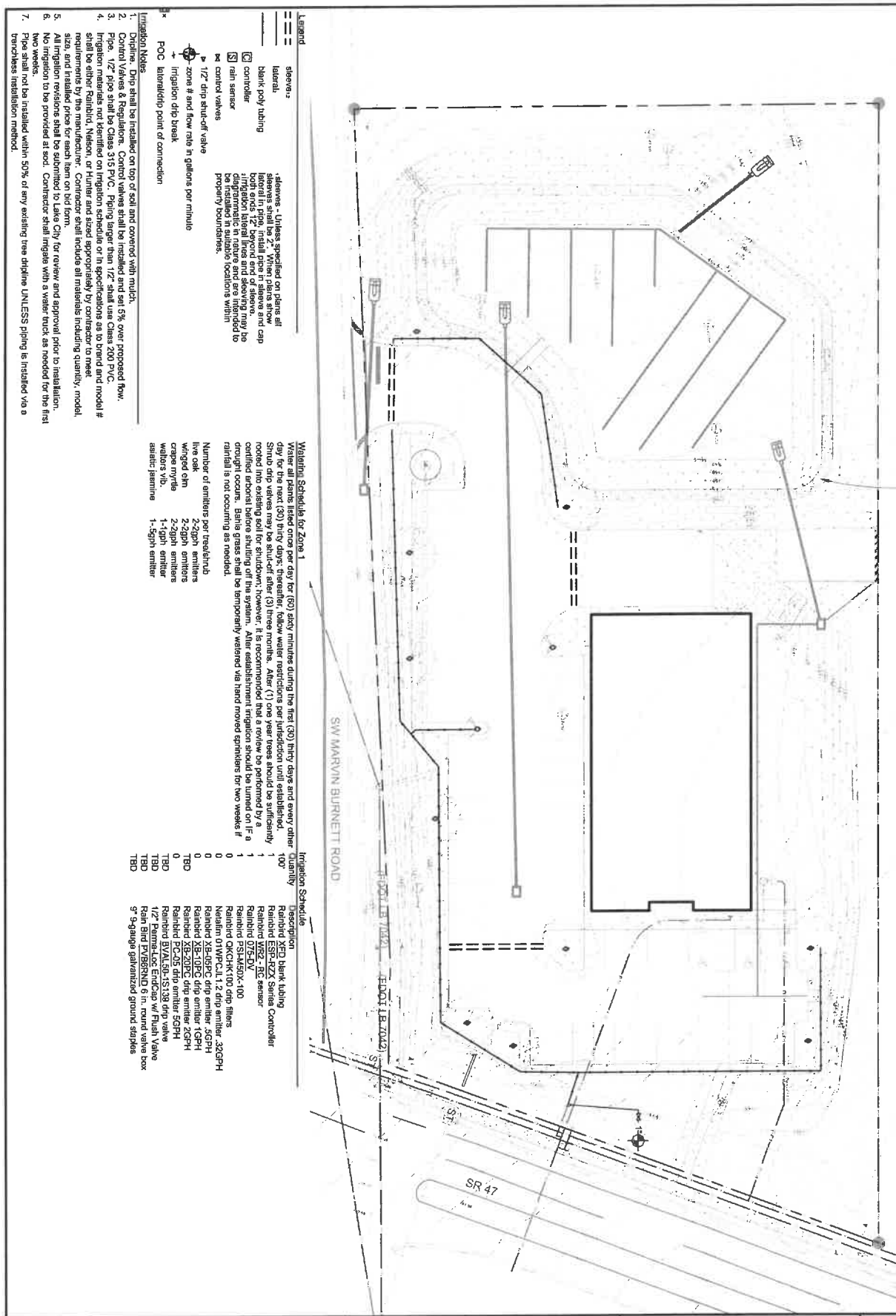
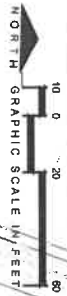
LANDSCAPE PLAN

COMMERCIAL RETAIL STORE - MARVIN BURNETT

PREPARED FOR
CONCEPT COMANIES

REVISIONS:

Barton Design, Inc.
1000 N. W. 10th St., Suite 100
Fort Lauderdale, FL 33304
Phone: 954.575.1111
www.bartondesign.com



- Legend**
- sleeves
 - lateral
 - blank poly tubing
 - controller
 - ⊠ rain sensor
 - ⊞ control valves
 - ⊞ 1/2" drip shut-off valve
 - ⊞ zone # and flow rate in gallons per minute
 - ⊞ irrigation drip break
 - ⊞ FOC lateral/drip point of connection
- Irrigation Notes**
1. Dripline: Drip shall be installed on top of soil and covered with mulch.
 2. Control Valves & Regulators: Control valves shall be installed and set 5% over proposed flow.
 3. Pipe: 1/2" pipe shall be Class 915 PVC. Piping larger than 1/2" shall use Class 200 PVC.
 4. Irrigation materials not identified on irrigation schedule or in specifications as to brand and model # shall be either Rainbird, Nelson, or Hunter and sized appropriately by contractor to meet requirements by the manufacturer. Contractor shall include all materials including quantity, model size, and installed price for each item on bid form.
 5. All irrigation revisions shall be submitted to Leno City for review and approval prior to installation.
 6. All irrigation to be provided at 50% of any existing tree dripline UNLESS piping is installed via a trenchless installation method.
 7. Pipe shall not be installed within 50% of any existing tree dripline UNLESS piping is installed via a trenchless installation method.

Watering Schedule for Zone 1

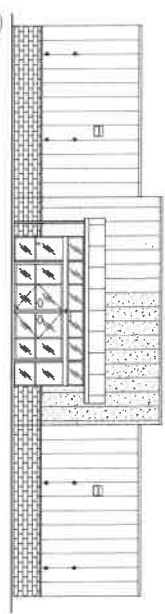
Water all plants listed once per day for (60) sixty minutes during the first (30) thirty days and every other day for the next (30) thirty days. Thereafter, follow water restrictions per jurisdiction until established. Shrub drip valves may be shut-off after (3) three months. After (1) one year trees should be sufficiently established and watering may be discontinued. However, it is recommended that a review be performed by a contractor to determine if a watering schedule is still needed. If a watering schedule is not needed, a note shall be placed in the schedule. If a drought occurs, Bains areas shall be temporarily withheld via hand moved emitters for two weeks if rainfall is not occurring as needed.

Number of emitters per tree/shrub	live oak	2-2gph emitters
winged elm	2-2gph emitters	
crrape myrtle	2-2gph emitters	
walders yew	1-1gph emitter	
eastern juniper	1-1gph emitter	

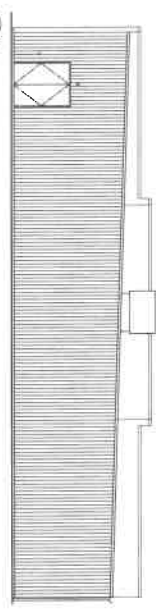
Irrigation Schedule

Description	Quantity
Rainbird X200 Blank Tubing	100'
Rainbird W82-362 Series Controller	1
Rainbird W82-362 Series Controller	1
Rainbird 075-6V	1
Rainbird PS14450X-100	0
Rainbird QKCHK-100 drip filters	0
Nelson 01WPC-1.12 drip emitter .30GPH	0
Rainbird XE-05PC drip emitter .50GPH	0
Rainbird XE-10PC drip emitter 1.0GPH	0
Rainbird XE-20PC drip emitter 2.0GPH	0
Rainbird XE-40PC drip emitter 4.0GPH	0
Rainbird B74-36	TBD
Rainbird B74-36	TBD
1/2" Pexmate-Loc Emitters w/ Flush Valve	TBD
Rain Bird FV-988ND 6 in. round valve box	TBD
9" 9-gauge galvanized ground staples	TBD

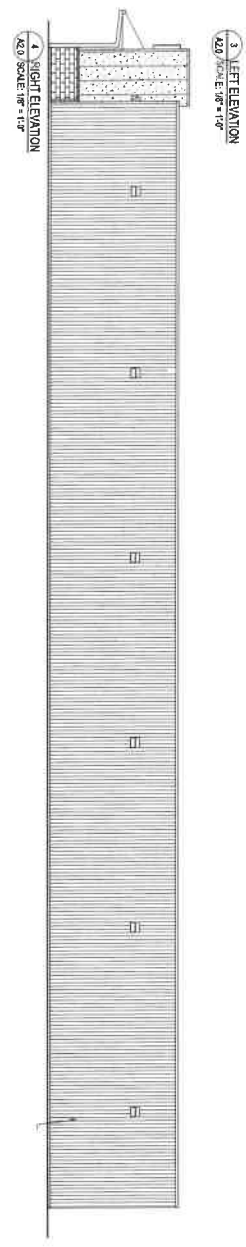
PLANS PREPARED BY LS-02	BDI NO. 24200 DRAWN BY: BDB DESIGNED BY: BOB CHECKED BY: BOB DATE: 12/19/2023	<h2 style="margin: 0;">IRRIGATION PLAN</h2> <p style="margin: 0;">COMMERCIAL RETAIL STORE - MARVIN BURNETT</p> <p style="margin: 0; font-size: small;">PREPARED FOR CONCEPT COMAPANIES</p>	REVISIONS:
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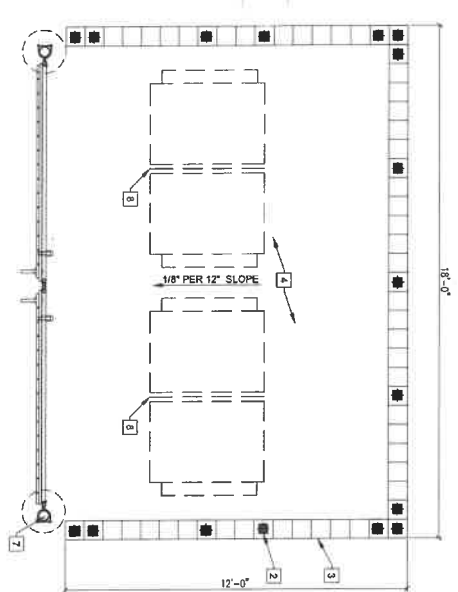
1. FRONT ELEVATION
K20 SCALE: 1/8" = 1'-0"



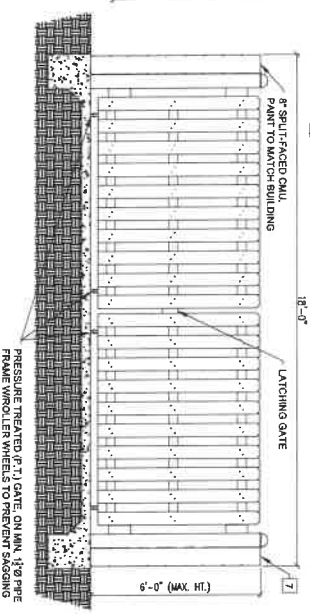
2. REAR ELEVATION
K20 SCALE: 1/8" = 1'-0"



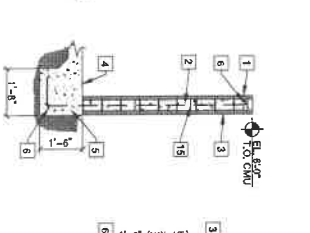
3. LEFT ELEVATION
K20 SCALE: 1/8" = 1'-0"



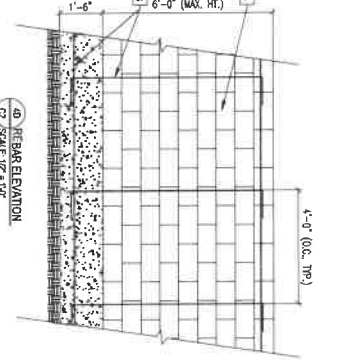
4. DUMPSTER ENCLOSURE PLAN
K2 SCALE: 1/2" = 1'-0"



5. DUMPSTER ENCLOSURE ELEVATION
K2 SCALE: 1/2" = 1'-0"



6. TYP. SECTION
K2 SCALE: 1/2" = 1'-0"



7. REAR ELEVATION
K2 SCALE: 1/2" = 1'-0"

DUMPSTER KEY NOTES

- 1 TOP OF WALL, BOND BEAM SOLID CONCRETE FOOTING W/REINFORCED CONCRETE AS SHOWN
- 2 SOLID POURED CELL EVERY 48" W/1#5 TO BOTTOM W/2" HOOK EACH END AND MIN. 3/8" SPLICE
- 3 8" SPLACED CMU W/1#5 AT 48" O.C. FINISHED SLAB
- 4 20"x16" CONCRETE FOOTING
- 5 2#5 CONT. W/2" STANDARD HOOK
- 6 8" STEEL SQUARED CORR SOLID PAINT FINISH FOR EMBLEMMENT
- 7 DUMPSTER (NIC)

- 8 DUMPSTER BRICK, CONCRETE SPECS. CONSTRUCT FOOTING W/REINFORCED CONCRETE AS SHOWN
- 9 CONCRETE SHALL BE STANDARD MIX PER-3000 PSI FOR ALL FOOTINGS AND SLABS OR SHALL BE STANDARD MIX PER-3000 PSI FOR ALL WALLS AND SLABS OR SHALL BE STANDARD MIX PER-3000 PSI FOR ALL PARTS OF PLACEMENT. MINING, PLACING AND FINISHING SHALL BE PER ACI STANDARDS.
- 10 CONCRETE SHALL BE PER MANUFACTURERS PRODUCT GUIDE ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH.
- 11 MORTAR SHALL BE TYPE M OR N FOR ALL MASONRY UNITS.
- 12 CONCRETE BLOCK PER ASTM C-90 SURFACE FINISH, SEE SPEC. ON A-12. USE TYPE M OR N MORTAR TO LAY UP CONCRETE MASONRY BLOCK.

DOLLAR GENERAL
SR 47
LAKE CITY, FL 32025
STORE # 780
PLAN 124902 - 12,450 SQ. FT.

CONCEPT COMPANIES
1448 SW 74th DR, SU. 202, GAINESVILLE, FL 32607
PHONE: 352-359-9991
PH: 877-306-1028 FAX: 800-218-7008
WWW.CONCEPTCOMPANIES.COM

THESE DRAWINGS HAVE BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THE ARCHITECT BELIEVES TO BE RELIABLE, THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE DRAWINGS FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCURRED AND ARE ADMITTED TO BE A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ARCHITECT. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY. ALL WORK SHALL COMPLY WITH ANY AND ALL APPLICABLE CODES AND ORDINANCES. SUBMITTANCES ARE TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ALL INFORMATION DESIGN AND BUILDING TECHNIQUES RELYED UPON ARE THE EXCLUSIVE PROPERTY OF THE PARTIES NOTED ON THE TITLE BLOCK.

JAMES BLYTHE
REGISTERED ARCHITECT
CORPORATE OFFICE
1000 N. W. 10th St
MIAMI, FL 33136

MEMORANDUM

CRS Marvin Burnett

23-0653



To: The City of Lake City
From: Randall Olney, P.E.
Date: March 20, 2024
RE: CRS Marvin Burnett – Meter Sizing Calculations

The following is a calculation for meter sizing for the proposed project based on the City of Lake City Utility Standards.

CRS Marvin Burnett Building data is based on the information available from the project architect at the time of this memo. Any changes to the building data will void the provided meter sizing calculation and requires a revised analysis to verify calculations are compliant with the City of Lake City Utility Standards criteria.

PROJECT NAME: CRS Marvin Burnett
PROJECT No.: 23-0653
FILE PATH: N:\2023\23-0653\Departments\04_Engineering\01_Regulatory Permitting\Utilities\Meter Sizing

ADF and ADF METER SIZING CALCULATIONS

Proposed Average Daily Flow – Stores per Bathroom = 200 gpd per bathroom per FAC 62E-6

Proposed Average Water Demand	2 bathrooms	X	200 gpd	400	gpd
				Total=	400 gpd

Proposed Average Water Demand ERC (Eqv. Residential Connection =350)	1.14	ERC
Peak Water Demand ERC (PF=4)	4.6	ERC
Peak Flow for Meter Sizing based on ADF (PF = 4, over 16 hours)	1.67	gpm

Peak Flow meter size per Lake City Utility Standards 2010	5/8	inch
---	-----	------

Use 5/8" Meter with 1" RPZ Backflow Preventer

Digitally signed by Randall Scott Olney
DN: E=randyo@chw-inc.com, CN=Randall Scott Olney, O=Randall Scott Olney, L=Alachua, S=Florida, C=US
Date: 2024.03.21 13:50:11-0400'

Randall Olney, FL P.E. No. 68382

03/21/2024

Date

Randall Scott Olney,
State of Florida, Professional
Engineer, License No. 68382

This item has been
electronically signed and
sealed by Randall Scott
Olney, PE. On 03/21/2024
using a Digital Signature.

Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic copies.



CRS Marvin Burnett

Private Lift Station Report

3/20/2024

Prepared for:
Florida Department of Environmental Protection
City of Lake City Utility Department

Prepared on behalf of:
Concept Development, Inc.
1449 SW 74th Drive, Suite 200
Gainesville, FL 32607

Prepared by:
Randall S. Olney
CHW

Randall Scott Olney,
State of Florida, Professional
Engineer, License No. 68382

This item has been
electronically signed and
sealed by **Randall Scott
Olney, PE**. On 03/21/2024
using a Digital Signature.

Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic copies.

Digitally signed by Randall
Scott Olney
DN:
E=rsolney@chw-inc.com,
OU=Randall Scott Olney,
CN=Randall Scott Olney,
C=US
Date: 2024.03.21
13:51:50-0400

23-0653
N:\2023\23-0653\Departments\04_Engineering\01_Regulatory
Permitting\Utilities\Lift Station

Flow Generation

Notes: 1) Estimated sewage flow per FAC 62-6.008, Table I

2 Water closets X 200 gpd 400 gpd

Total average daily flow = 400 GPD
Average Daily In-Flow (Based on 16-hour Operation period) = 0.42 gpm
Peak Hour Factor = 4.0
Design In-Flow = 1.7 gpm

Wetwell Design

PROPOSED

Desired Cycle Time = 30 min
Design In-Flow = 1.7 gpm
Average Daily Flow = 0.4 gpm
Minimum Storage Volume = 9.4 gallons
= 1.3 ft³
Wetwell Diameter = 4.0 ft
Minimum Storage Depth = 0.10 ft
Actual Storage Depth = 0.13 ft
Actual Storage Volume = 12.22 gallons
Rim Elevation = 163.80 ft
Invert Elevation = 159.33 ft
High Water Alarm Elevation = 158.83 ft
Lag Pump on Elevation = 158.33 ft
Lead Pump on Elevation = 157.83 ft
Pumps off Elevation = 157.70 ft
Bottom of Wetwell Elevation = 155.70 ft
Highest Point Along Force Main = 166.40 ft
Height of Wetwell = 8.10 ft

$$Min_Volume = \frac{T}{\frac{1}{DF - ADF} + \frac{1}{ADF}}$$

Force Main Hydraulics

Inside Wet Well/Valve Box Pipe Diameter = 2.0 in
Onsite Forcemain Pipe Diameter = 2.0 in
Offsite Forcemain Pipe Diameter = 4.0 in
Hazen-Williams C = 120

Calculation for friction head loss:

$$H_L = L \frac{10.5}{D^{4.87}} \left(\frac{Q}{C} \right)^{1.852}$$

Normal Operating Tie-in Pressure = 35.0 psi
= 80.9 ft
Static Elevation Head = 8.7 ft

Equivalent Length of Straight Pipe for Fittings

Fitting Type	Equivalent Length (ft)	x	Quantity	=	Subtotal (ft) Eq. Length of same diam. PVC	Subtotal (ft) Eq. Length of 2 in. PVC Pipe	$L_2 = L_1 \left(\frac{D_2}{D_1} \right)^{4.87}$
Inside Pump Station and Valve Vault							
	2.00	in					
Straight Pipe	12	x	1	=	12.0	12.0	
90° Bend	3.1	x	2	=	6.2	6.2	
Plug Valve	2.6	x	1	=	2.6	2.6	
Tee Branch Flow	6.6	x	1	=	6.6	6.6	
Check Valve	17.0	x	1	=	17.0	17.0	
Gate Valve	1.5	x	1	=	1.5	1.5	
Onsite Forcemain							
	2.00	in					
Straight Pipe	155	x	1	=	155.0	155.0	
22.5° Bend	1.7	x	1	=	1.7	1.7	
45° Bend	1.7	x	4	=	6.8	6.8	
90° Bend	3.1	x	0	=	0.0	0.0	
Check Valve	17.0	x	0	=	0.0	0.0	
Plug Valve	2.6	x	1	=	2.6	2.6	
Offsite Forcemain (Proposed)							
	4.00	in					
Straight Pipe	2	x	1	=	2.0	0.1	
11.25° Bend	3.5	x	0	=	0.0	0.0	
22.5° Bend	3.5	x	0	=	0.0	0.0	
45° Bend	3.5	x	0	=	0.0	0.0	
Tee Branch Flow	12.0	x	1	=	12.0	0.4	
Check Valve	38.0	x	0	=	0.0	0.0	
Gate Valve	2.5	x	1	=	2.5	0.1	
NORMAL CONDITION:					Total Proposed Force Main Length =	169 ft	(Includes length within lift station)
					Total Proposed Effective Force Main Length =	213 ft	

Out-Flow Design

Pump Run Time = 0.50 min
 Design Out-Flow = 24.4 gpm
 Design Out-Flow Velocity = 2.5 ft/s (No less than 2.0 ft/s, No more than 8 ft/s)

System Performance Curve

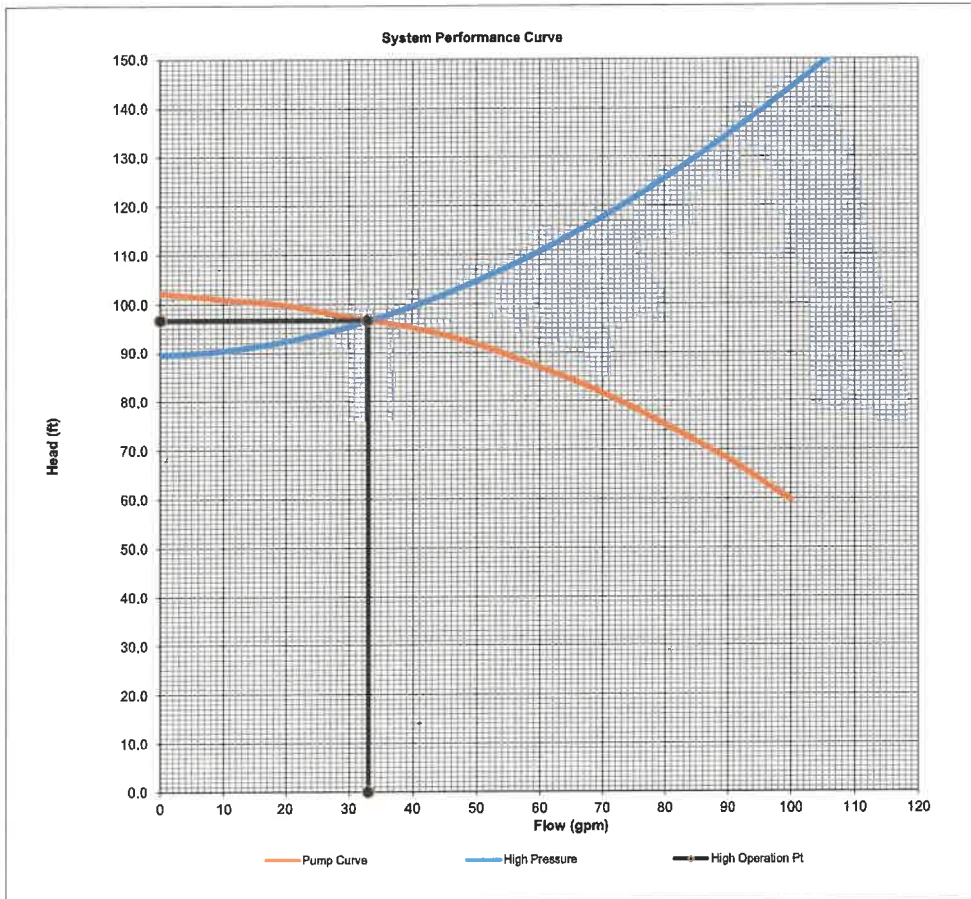
Flow (gpm)	Normal Operation (with tie-in pressure) Head (ft)
0	89.6
10	90.3
20	92.3
30	95.4
40	99.5
50	104.6
60	110.7
70	117.7
80	125.6
90	134.3
100	144.0
110	154.5
120	165.9
130	178.1
140	191.1
150	204.9
160	219.6
170	235.0
180	251.3
190	268.3
200	286.1
210	304.7
220	324.1
230	344.2
240	365.1
250	386.7
260	409.1
270	432.2
280	456.1
290	480.7
300	506.1
310	532.2
320	559.0
330	586.5
340	614.7
350	643.7
360	673.4
370	703.8

Pump Curve

One Pump - Simplex Flow (gpm)	Head (ft)
0	102.2
10	100.9
20	99.7
30	97.3
40	95.1
50	91.7
60	86.9
70	81.7
80	75.2
90	68.1
100	59.7

Pump Specifications:

Pump: Barnes	Imp Dia: 5	
Model: NGVH50N2	Power: 5	hp
Discharge Flange Dia: 2.5"	Electrical Req: 3 Phase	
Speed: 3450	Voltage: 208	V



Design Operation Point (1 Pump - Normal Operation)

Flow (gpm)	Velocity (fps) in 2" FM	Head (ft)
33.0	3.4	96.6

System Performance at Normal Operation Design Point

Forcemain Velocity =	3.37 ft/s
Pump Run Time =	0.37 min
Cycle Time =	29.70 min 0.49 hrs

$$Pump\ Run\ Time = \frac{Storage\ Volume}{Design\ Operation\ Flow}$$

$$Cycle\ Time = \frac{Storage\ Volume}{ADF} + Pump\ Run\ Time$$

Fiberglass Wetwell

Displaced Volume =	101.8 cf
Unit Weight of Water =	62.4 pcf
Weight of Displaced Water =	6,352 lb

Bouyant Weight of Concrete =	77.60 pcf
Bouyant Weight of Soil above Concrete Ring =	47.60 pcf
Width of Bouyancy Concrete Ring =	1 ft
Required Height of Bouyancy Concrete Ring =	1.97 ft

Submersible Grinder Pumps

Specifications:

DISCHARGE:

NGV Vertical 2" NPT
 NGVH Flange..... 2" 2.50" 3", Horizontal
 NGVHH Flange 2.50" 3", Horizontal

LIQUID TEMPERATURE 104°F (40°C) Continuous

VOLUTE Cast Iron ASTM A-48, Class 30

MOTOR HOUSING Cast Iron ASTM A-48, Class 30

SEAL PLATE Cast Iron ASTM A-48, Class 30

IMPELLER: *Design* 12 Vane, Vortex, With Pump Out Vanes
 On Back Side. Dynamically Balanced,
 ISO G6.3

Material Cast Iron ASTM A-48, Class 30

SHREDDING RING Hardened 440C Stainless Steel,
 Rockwell® C-55

CUTTER Hardened 440C Stainless Steel,
 Rockwell® C-55

SHAFT 416 Stainless Steel

SQUARE RINGS Buna-N

HARDWARE 300 Series Stainless Steel

PAINT Axalta™ Corlar® Epoxy, Two Coats

SEAL: *Design* Tandem Mechanical, Oil Filled Reservoir

Material Rotating Faces - Carbon
 Stationary Faces - Ceramic
 Elastomer - Buna-N

CORD ENTRY Custom Molded, Quick Connected
 for Sealing and Strain Relief

POWER CORD CSA Certified Submersible Power
 Cable 2000V - Ordered Separately

UPPER BEARING:

Design Single Row, Ball, Oil Lubrication
Load Radial

LOWER BEARING:

Design Double Row, Ball, Oil Lubrication
Load Radial & Thrust

MOTOR: *Design* NEMA B

Three Phase Torque Curve
 Oil-Filled, Squirrel Cage Induction,
 Inverter Duty rated per NEMA MG1
 Class H Varnish & Magnet Wire

Insulation..... Class H Varnish & Magnet Wire

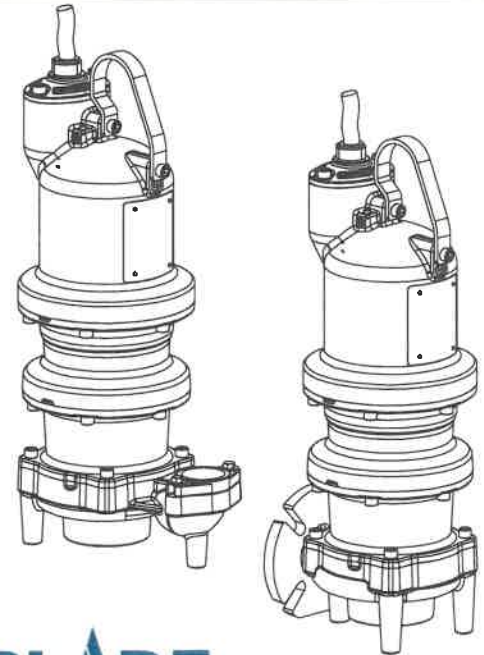
SINGLE PHASE..... Requires overload protection to be
 included in control panel. Requires start
 components to be included in panel.
 Provided with pump

THREE PHASE..... Requires overload protection to be
 included in control panel

MOISTURE SENSORS..... Normally Open (N/O), Requires relay
 in control panel

TEMPERATURE SENSOR Normally Closed (N/C)
 To be wired in series with control circuit

OPTIONAL EQUIPMENT..... Seal Material, Impeller Trims,
 Cord Length, Leg Kit, 3" Spool Kit



BLADE

Series: NGV
3, 5, 7.5 & 10HP,
3450RPM, 60Hz

Sample Specifications: Section 3 Page 12.

DESCRIPTION:

THE GRINDER PUMP IS DESIGNED TO
REDUCE DOMESTIC, COMMERCIAL,
INSTITUTIONAL AND LIGHT INDUSTRIAL
SEWAGE TO A FINELY GROUND SLURRY.



WARNING:

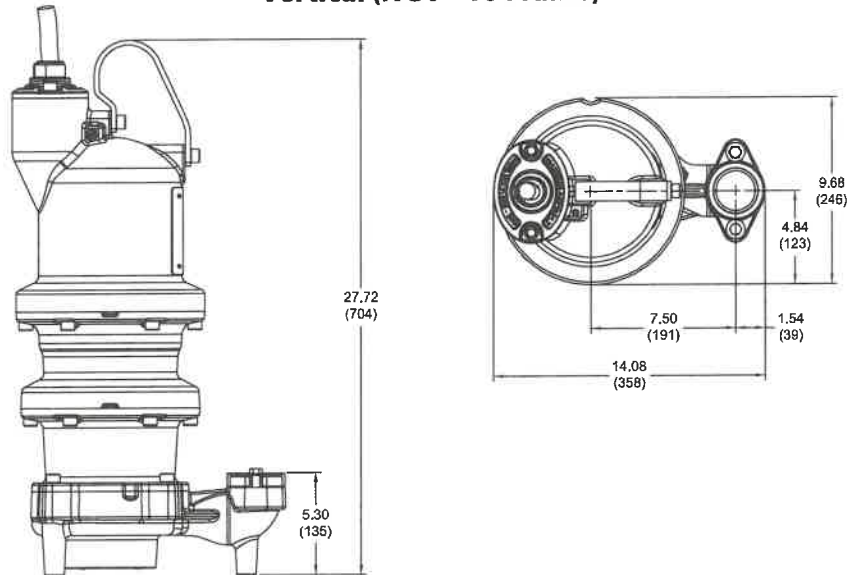
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV



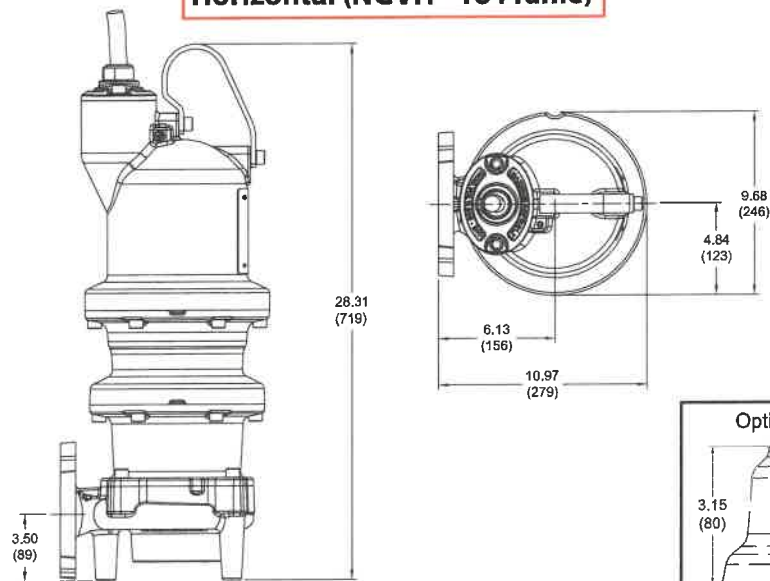
Submersible Grinder Pumps

Vertical (NGV - 18 Frame)

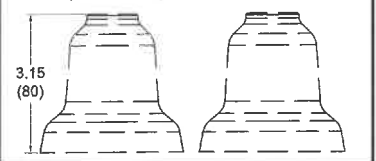
inches
(mm)



Horizontal (NGVH - 18 Frame)



Optional Leg Kit - p/n 125506



IMPORTANT !

- 1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE WARRANTY.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.**
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) THIS PUMP IS NOT APPROPRIATE FOR THOSE APPLICATIONS SPECIFIED AS CLASS 1 DIVISION 1 HAZARDOUS LOCATIONS.

Submersible Grinder Pumps

MODEL NO	PART NO	HP	VOLT	PH	HZ	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.
NGVH3072	141350N	3.0	208	1	60	3450	J	25.0	1.0	113.2	18	125496	12/4 - 18/4	.86 ± .02
			230					131.2						
			208					85.4						
NGVH30N2	141351N	3.0	230	3	60	3450	P	12.1	1.0	95.2	18	125496	12/4 - 18/4	.86 ± .02
			230					47.6						
			460					38.1						
NGVH3052	141353N	3.0	575	3	60	3450	P	5.0	1.0	38.1	18	125497	12/4 - 18/4	.86 ± .02
NGVH5072	141354N	5.0	208	1	60	3450	E	34.1	1.0	113.2	18	125498	8/4 - 18/4	1.12 ± .02
			230					131.2						
			208					85.4						
NGVH50N2	141355N	5.0	230	3	60	3450	J	17.8	1.0	95.2	18	125496	12/4 - 18/4	.86 ± .02
			230					47.6						
			460					38.1						
NGVH5052	141357N	5.0	575	3	60	3450	J	6.4	1.0	38.1	18	125497	12/4 - 18/4	.86 ± .02
NGVH75N2	141358N	7.5	208	3	60	3450	M	28.0	1.0	173.9	18	125496	12/4 - 18/4	.86 ± .02
			230					201.0						
			460					100.5						
NGVH7552	141360N	7.5	575	3	60	3450	M	11.3	1.0	80.4	18	125497	12/4 - 18/4	.86 ± .02

BLADE NGVH Pump - Horizontal

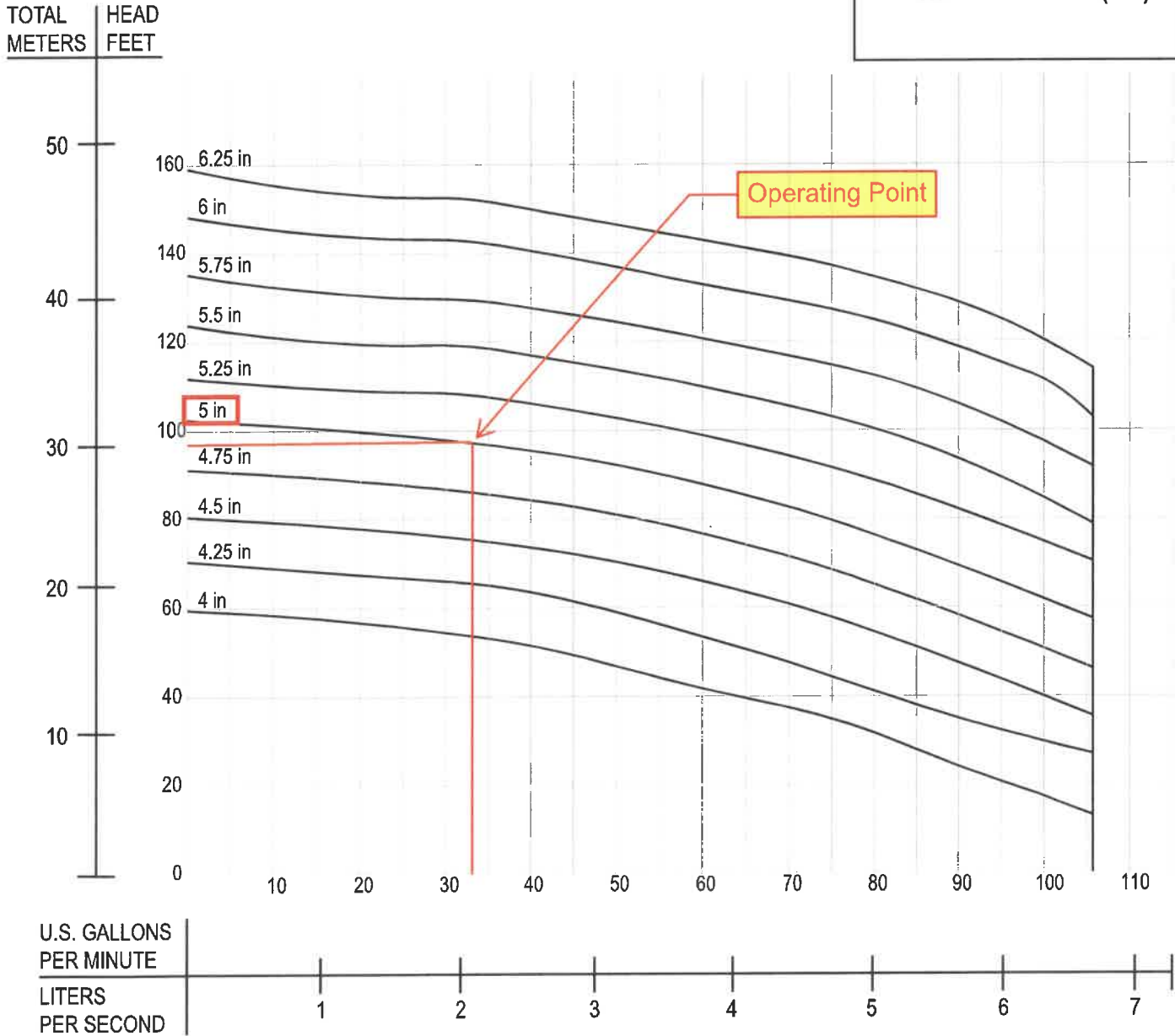
NOTE: A 3" Pipe Spool Kit is recommended for use of a NGVH with a 3x3 BAF.

IMPORTANT !
 Moisture and Temperature sensor leads are integral to power cord.
 Pump rated for operation at ± 10% voltage at motor.
 ▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
 ▲ Cord sold separately.
 Single Phase pumps require start components to be included in panel. Provided with pump.

Submersible Grinder Pumps

STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. in. (mm)
7.5	6.25 (159)
5.0	5.25 (133)
3.0	4.50 (114)



Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

MEMORANDUM

CRS Marvin Burnett

23-0653



To: City of Lake City
From: Randall S. Olney, PE
Date: March 20, 2024
RE: CRS Marvin Burnett– Required Fire Flow

The following is a calculation for the required fire flow for the proposed project based on the NFPA 1: Fire Code.

Building data is based on the information available from the project architect at the time of this memo. Any changes to the building data will void the provided fire flow calculation and requires a revised analysis to verify the building complies with the applicable fire protection criteria. The building will not be protected by an approved automatic fire sprinkler system.

NFPA Required Flow Calculations:

Building: **Commercial Retail Store**
Construction Type: II (000)
Fire Flow Area: ±10,640 SF

Required Fire Flow per NFPA Table 18.4.5.1.2: 2,250 gpm

Available Fire Flow:

Based on the hydrant flow data supplied by the City of Lake City, the total available fire flow at 20 PSI is as follows:

Total Available: 2,345 gpm

Minimum Required Fire Flow to be provided: 2,250 gpm

Conclusions:

The total available flow (2,345 GPM) is higher than the minimum required (2,250 GPM).

As part of this development, a new hydrant will be installed onsite.

Digitally signed by Randall Scott Olney
DN: E=Randdyo@chw-inc.com, O=Randall Scott Olney, OU=Randall Scott Olney, L=Alachua, S=Florida, C=US
Date: 2024.03.21 13:51:12-0400

Randall S. Olney, P.E. 68382

Date: 03/21/2024

Randall Scott Olney,
State of Florida, Professional
Engineer, License No. 68382

This item has been
electronically signed and
sealed by Randall Scott
Olney, PE. On 03/21/2024
using a Digital Signature.

Printed copies of this
document are not considered
signed and sealed and the
signature must be verified on
any electronic copies.

City of Lake City Water flow report

HYDRANT # & LOCATION: **701 SW State Road 47** DATE: **12/4/2023**
 TEST BY: **AJ/Brandon** Day: **Monday** Time: **9:10** Minutes: **2**
 WATER SUPPLIED BY: **Municipal**
 PURPOSE OF TEST: **request**

DATA

FLOW HYDRANT(S)	A1	A2	A3
SIZE OPENING:	2.5	2.5	2.5
COEFFICIENT:	0.8		
PITOT READING:	40		
GPM:	943	0	0
TOTAL FLOW DURING TEST:	943 GPM		
STATIC READING:	74 PSI	RESIDUAL:	64 PSI
RESULTS: AT 20 PSI RESIDUAL	2345 GPM		AT 0 PSI 2780 GPM
ESTIMATED CONSUMPTION:	1887 GAL.		
REMARKS:			

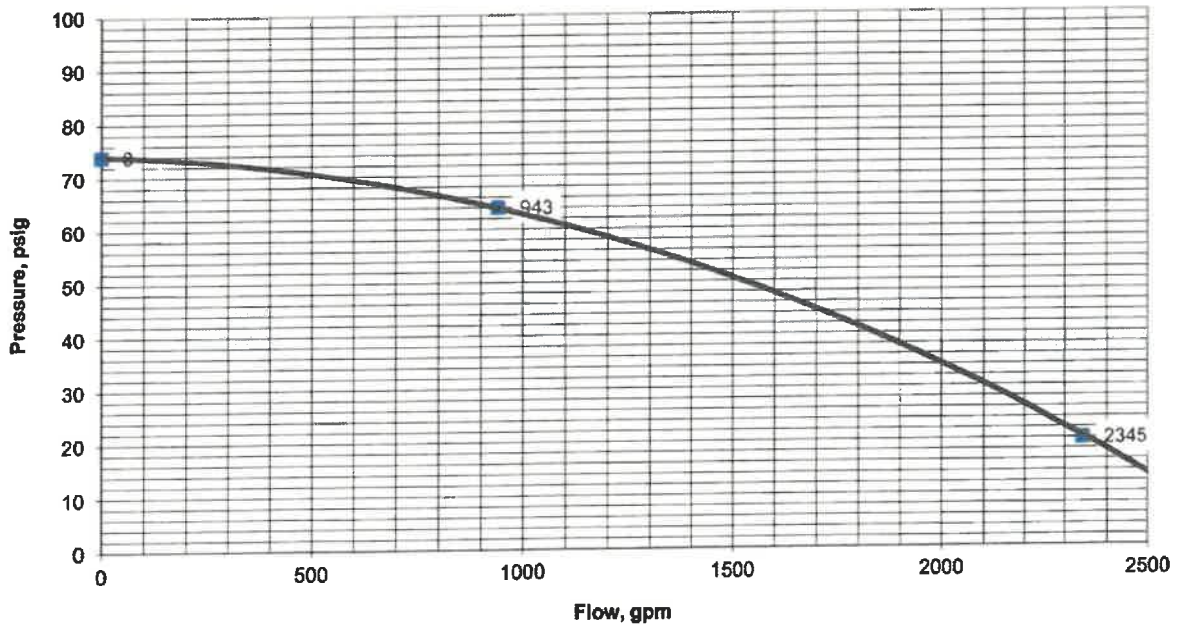


Table 18.4.5.1.2 Minimum Required Fire Flow and Flow Duration for Buildings

Fire Flow Area ft ² (x 0.0929 for m ²)					Fire Flow gpm ¹ (x 3.785 for L./min)	Flow Duration (hours)
I(443), I(332), II(222)*	II(111), III(211)*	IV(2HH), V(111)*	II(000), III(200)*	V(000)*		
0-22,700	0-12,700	0-8200	0-5900	0-3600	1500	2
22,701-30,200	12,701-17,000	8201-10,900	5901-7900	3601-4800	1750	
30,201-38,700	17,001-21,800	10,901-12,900	7901-9800	4801-6200	2000	
38,701-48,300	21,801-24,200	12,901-17,400	9801-12,600	6201-7700	2250	
48,301-59,000	24,201-33,200	17,401-21,300	12,601-15,400	7701-9400	2500	
59,001-70,900	33,201-39,700	21,301-25,500	15,401-18,400	9401-11,300	2750	
70,901-83,700	39,701-47,100	25,501-30,100	18,401-21,800	11,301-13,400	3000	
83,701-97,700	47,101-54,900	30,101-35,200	21,801-25,900	13,401-15,600	3250	
97,701-112,700	54,901-63,400	35,201-40,600	25,901-29,300	15,601-18,000	3500	
112,701-128,700	63,401-72,400	40,601-46,400	29,301-33,500	18,001-20,600	3750	
128,701-145,900	72,401-82,100	46,401-52,500	33,501-37,900	20,601-23,300	4000	4
145,901-164,200	82,101-92,400	52,501-59,100	37,901-42,700	23,301-26,300	4250	
164,201-183,400	92,401-103,100	59,101-66,000	42,701-47,700	26,301-29,300	4500	
183,401-203,700	103,101-114,600	66,001-73,300	47,701-53,000	29,301-32,600	4750	
203,701-225,200	114,601-126,700	73,301-81,100	53,001-58,600	32,601-36,000	5000	
225,201-247,700	126,701-139,400	81,101-89,200	58,601-65,400	36,001-39,600	5250	
247,701-271,200	139,401-152,600	89,201-97,700	65,401-70,600	39,601-43,400	5500	
271,201-295,900	152,601-166,500	97,701-106,500	70,601-77,000	43,401-47,400	5750	
Greater than 295,900	Greater than 166,500	106,501-115,800	77,001-83,700	47,401-51,500	6000	
		115,801-125,500	83,701-90,600	51,501-55,700	6250	
		125,501-135,500	90,601-97,900	55,701-60,200	6500	
		135,501-145,800	97,901-106,800	60,201-64,800	6750	
		145,801-156,700	106,801-113,200	64,801-69,600	7000	
		156,701-167,900	113,201-121,300	69,601-74,600	7250	
		167,901-179,400	121,301-129,600	74,601-79,800	7500	
		179,401-191,400	129,601-138,300	79,801-85,100	7750	
		Greater than 191,400	Greater than 138,300	Greater than 85,100	8000	

*Types of construction are based on NFPA 220.

¹Measured at 20 psi (139.9 kPa).

COMPREHENSIVE PLAN CONSISTENCY ANALYSIS

CRS Marvin Burnett

23-0653



To: Robert Angelo, City of Lake City Growth Management
From: Braxton Linton III, Project Planner
Date: December 7th, 2023
RE: CRS Marvin Burnett – Comprehensive Plan Consistency Analysis

This Concurrency Analysis is submitted for CRS Marvin Burnett Lake City. The proposed use is a ±10,640-square-foot Commercial Retail Store and associated parking and stormwater. The site is on a portion of tax parcel is 07-4S-17-08127-005 in Columbia County, FL. A lot split is being completed on the site to create a 2.72-acre parcel adjacent to the intersection. One driveway connection will be to Marvin Burnett Road which is a county road. The future land use category is Commercial, and the zoning district is Commercial, Intensive (CI).

The following analysis estimates potential impacts on Lake City public facilities that may result from the proposed development. The following tables include data obtained within the City Comprehensive Plan and Florida Administrative Code (F.A.C.).

Future Land Use Element

Policy I.1.1: The location of higher density residential, high intensity commercial and heavy industrial uses shall be directed to areas adjacent to arterial or collector roads, identified on the Future Traffic Circulation Map, where public facilities are available to support such higher density or intensity.

COMMERCIAL

Lands classified as commercial use consist of areas used for the sale, rental, and Distribution of products or performance of services, as well as public, charter and private elementary, middle and high schools. In addition, off-site signs, churches and other house of worship, private clubs and lodges, residential dwelling units, which existed within this category on the date of adoption of this objective, and other similar uses compatible with commercial uses may be approved as special exceptions and be subject to an intensity of less than or equal to 0.25 floor area ratio except withing the (CG) Commercial, General, (CI) Commercial, Intensive, (C-CBD) Commercial-Central Business District and (CHI) Commercial, Highway Interchange districts being subject to intensity of less than or equal to 1.0 floor area ratio.

The proposed use, a Commercial Retail Store, is considered a retail use, which is consistent with the Commercial FLU category. Development will be consistent with standards set forth by the Commercial FLU category and CI Zoning District.

Objective I.2 The City shall adopt performance standards which regulate the location of land development consistent with topography and soil conditions and the availability of facilities and services.

The site is composed of three soils:

1. Blanton Fine Sand, 0 to 5 percent slopes (hydro group: A)

N:\2023\23-0653\Departments\02_Planning\Reports\RPT 2301204 Comprehensive Plan Consistency - CRS Marvin Burnett.docx

2. Pelham Fine Sand, 0 to 2 percent slopes (hydro group: B/D)
3. Ichetucknee Fine Sand, 5 to 8 percent slopes (hydro group: D)

According to the NRCS soil database, these soil types are conducive to the proposed development, which is also demonstrated on adjacent sites with similar uses and soil types.

Currently, there are no buildings located on the project site, there are developments to the north and east of the site.

Objective I.3 The City shall require that all proposed development be approved only where the public facilities meet or exceed the adopted level of service standard

Currently, there is no development on the project site. The proposed commercial retail store does not result in a degradation of Level of Service (LOS) standards, as is demonstrated in the Concurrency Impact Analysis memorandum submitted as part of this application.

Policy I.6.2 The City shall continue to include provisions for drainage, stormwater management, open space and safe and convenient on-site traffic flow including the provisions of needed vehicle parking for all development.

The proposed development will have onsite stormwater management facilities and adhere to all open space requirements set forth in Lake City’s LDR. Safe and convenient on-site traffic flow will include one ingress and egress point on Marvin Burnett Road which is a county road. Parking will adhere to standards set in Lake City’s LDR.

Objective I.6.5 The City shall continue to require that where a commercial or industrial use is erected or expanded on land abutting a residential district, then the proposed use shall provide a landscaped buffer. A masonry or wood opaque structure may be substituted for the planted buffer.

The subject property, specifically tax parcel 07-4S-17-08127-005, abuts a residential district to on the southwestern boundary. A landscape buffer is provided following guidelines from Lake City’s LDR as shown in the landscape plan.

Transportation Element

Objective II.1: Level of Service

The City shall establish a safe, convenient, and efficient level of service standard which shall be maintained for all roadways.

The proposed Commercial Retail Store (Institute of Transportation Engineers (ITE) Land Use Code 814) will not result in a degradation of transportation Level of Service (LOS) standards. Demonstrated in the Concurrency Impact Analysis memorandum submitted as part of this application, there will be 447 net total projected daily trips.

Policy II.1.2 The City shall control the number and frequency of connection and access points of driveways and roads to arterials and collectors by requiring access points for state roads to be in conformance with Chapter 14-96 and 14-97, Florida Administrative Code, and the following requirements for non-state roads:

1. Permitting 1 access point for ingress and egress purposes to a single property or development.

The subject property includes one ingress and egress point one ingress and egress point on Marvin Burnett Road which is a county road.

Policy II.1.3 The City shall continue to require development to provide safe and convenient on-site traffic flow, which includes the provisions for vehicle parking.

Safe and convenient on-site traffic flow will be achieved by having one ingress and egress point one ingress and egress point on Marvin Burnett Road which is a county road. The parking lot will adhere to parking requirements set forth in Lake City's LDR.

Conservation Element

Policy V.5.2: Soils. The City shall protect soil resources through erosion and sedimentation control, by requiring proper design criteria on specific soils.

In an effort to conserve potable water, that at least 50 percent of the following required landscaped areas be comprised of vegetation native or indigenous to the north Florida area:

1. 10 percent of offstreet parking areas;

Parking area landscaped islands have been provided as shown in the landscape plan.

2. 10 foot buffer between residential and commercial uses;

This buffer has been provided following guidelines from Lake City's LDR as shown in the landscape plan.

3. 15 foot buffer between single family uses and multi-family uses or mobile home parks; and

Not Applicable.

4. 25 foot buffer between residential and industrial uses.

Not Applicable.

Sanitary Sewer, Solid Waste, Drainage, Potable Water and Natural Groundwater aquifer Recharge Element

Objective IV.3: The City shall coordinate the extension of, or increase in the capacity of facilities by scheduling the completion of public sanitary sewer improvements concurrent with projected demand.

Policy IV.3.1: The City hereby establishes the following Level of Service standards for sanitary sewer facilities:

<u>FACILITY TYPE</u>	<u>LEVEL OF SERVICE STANDARD</u>
City of Lake City Community Sanitary Sewer System	135 gallons per capita per day

The proposed development will allow a use of ±10,640 sq. ft. of nonresidential use. As is demonstrated in the Concurrency Impact Analysis submitted as part of this application, this facility is estimated to use 1,064 Gallons Per day by the proposed use.

Objective IV.4: The City shall continue to coordinate the extension of, or increase in the capacity of solid waste facilities by scheduling the completion of public facility improvements and requiring that they are concurrent with projected demand.

Policy IV.4.1: The City hereby establishes the following level of service standards for solid waste disposal facilities:

<u>FACILITY TYPE</u>	<u>LEVEL OF SERVICE STANDARD</u>
Solid Waste Landfill	.85 tons per capita per year Residual capacity of landfill

The proposed development will allow a use of ±10,640sq. ft. of nonresidential use. As is demonstrated in the Concurrency Impact Analysis submitted as part of this application, this facility is estimated to use 233.02 lbs./day and 42.53 tons/year.

Objective IV.6: The City shall continue to coordinate the extension of, or increase in the capacity of potable water facilities by scheduling the completion of public facility improvements and requiring that they are concurrent with projected demand.

Policy IV.4.1: The City hereby establishes the following level of service standards for potable water.

<u>FACILITY TYPE</u>	<u>LEVEL OF SERVICE STANDARD</u>
City of Lake City	150 gallons per capita per day Residual capacity of landfill

The proposed development will allow a use of ±10,640 sq. ft. of nonresidential use. As is demonstrated in the Concurrency Impact Analysis submitted as part of this application, this facility is estimated to use 1,064 Gallons Per day by the proposed use.

CONCURRENCY ANALYSIS

CRS Marvin Burnett

23-0653



To: Robert Angelo, City of Lake City Growth Management
From: Braxton Linton III, Project Planner
Date: December 7th, 2023
Re: CRS Marvin Burnett – Concurrency Impact Analysis

This Concurrency Analysis is submitted for CRS Marvin Burnett Lake City. The proposed use is a ±10,640-square-foot Commercial Retail Store and associated parking and stormwater. The site is on a portion of tax parcel is 07-4S-17-08127-005 in Columbia County, FL. A lot split is being completed on the site to create a 2.72 acre parcel adjacent to the intersection. One driveway connection will be to Marvin Burnett Road which is a county road. The future land use category is Commercial, and the zoning district is Commercial, Intensive (CI).

The following analysis estimates potential impacts on Lake City public facilities that may result from the proposed development. The following tables include data obtained within the City Comprehensive Plan and Florida Administrative Code (F.A.C.).

Roadways / Transportation

Trip generation figures are based on the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition.

Table 1: Projected Trip Generation

Land Use ¹ (ITE)	Variable KSF	Daily	AM Peak		PM Peak			
		Total	Total	In	Out	Total	In	Out
Variety Store (ITE 814)	10.640	677	32	18	14	71	36	35
Pass-by Rate: = 34%*		230	11	6	5	24	12	12
Net Total Project Trips		447	21	12	9	47	24	23

1. Source: ITE Trip Generation 11th Edition

* The IT Trip Generation Manual, 11th Edition provides a pass-by rate of 34% during the PM peak but does not provide a pass-by rate for the AM and daily conditions, therefore, a pass-by rate of 34% is applied to the AM and daily scenarios.

Conclusion: Approval of this application may generate **447** daily vehicle trips. This is not anticipated to negatively impact the adopted LOS for adjacent and nearby roadways.

Potable Water / Sanitary Sewer / Solid Waste

Table 2: Projected Potable Water Impacts

Land Use	Maximum Units	Gallons Per Day ¹	Estimated Demand (GPD)
Shopping center without food or laundry	10,640	.01 gallons / sq. ft. / day	1,064

1. Source: Ch. 62E-6.008, Table 1, Florida Administrative Code

Conclusion: The project site will be served by the existing Lake City potable water infrastructure. The subject property is served by Lake City’s potable water, and it’s anticipated to generate 1,064 Gallons per day.

Table 3: Projected Sanitary Sewer Impacts

Land Use	Maximum Units	Gallons Per Day ¹	Estimated Demand (GPD)
Shopping center without food or laundry	10,640	.01 gallons / sq. ft. / day	1,064

1. Source: Ch. 62E-6.008, Table 1, Florida Administrative Code

Conclusion: The project site will be served by the existing Lake City wastewater infrastructure. The subject property is served by Lake City’s sanitary sewer, and it’s anticipated to generate 1,064 Gallons per day.

Table 4: Projected Solid Waste Impacts

Land Use	Units	Solid Waste Generated (lbs/day) ¹	Solid Waste Generated (tons/year) ²
Nonresidential	10,640 sq. ft.	233.02	42.53

1. Formulas per Sincero and Sincero; *Environmental Engineering: A Design Approach*. Prentice Hall, New Jersey, 1996.

a. Formula used, nonresidential: $((12 \text{ lbs.} / 1,000 \text{ sq. ft./day} * [10,640 \text{ sq. ft.}] * 365) / 2,000)$

2. Formula used, pounds per day to tons per year: $((\text{lbs/day}) * 0.005) * 365$

Conclusion: Solid waste facility capacity exists to adequately serve the intended office development for the subject property. The subject property is served by Lake City’s solid waste, and it’s anticipated to generate 233.02 pounds per day and 42.53 tons per year.



Engineering & Consulting, Inc.

**SUMMARY REPORT OF A
GEOTECHNICAL SITE EXPLORATION – REVISION 1**

**DOLLAR GENERAL – LAKE CITY SW MARVIN BURNETT
LAKE CITY, COLUMBIA COUNTY, FLORIDA**

GSE PROJECT NO. 16251

Prepared For:

CONCEPT DEVELOPMENT, INC.

DECEMBER 2023



December 7, 2023

Andrea Barnett
Concept Development, Inc.
1449 SW 74th Drive, Suite 200
Gainesville, Florida 32607

Subject: Summary Report of a Geotechnical Site Exploration – Revision 1
Dollar General – Lake City SW Marvin Burnett
Lake City, Columbia County, Florida
GSE Project No. 16251

GSE Engineering & Consulting, Inc. (GSE) is pleased to submit this geotechnical site exploration report for the above referenced project.

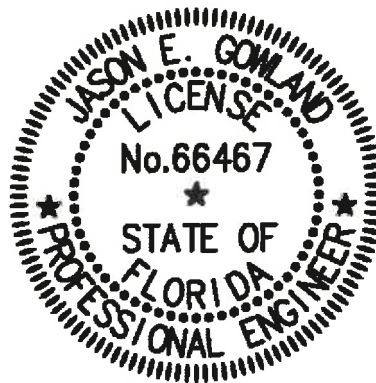
Presented herein are the findings and conclusions of our exploration, including the geotechnical parameters and recommendations to assist with building foundation, pavement, and stormwater management designs. This revision includes recommended soil parameters for stormwater management design with underdrains.

GSE appreciates this opportunity to have assisted you on this project. If you have any questions or comments concerning this report, please contact us.

Sincerely,

GSE Engineering & Consulting, Inc.

Angelina X. Liu, E.I.
Staff Engineer



This item has been digitally signed and sealed by
Jason E Gowland
Digitally signed by Jason E Gowland
Date: 2023.12.07 15:39:40 -05'00'
on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Jason E. Gowland, P.E.
Principal Engineer
Florida Registration No. 66467

AXL / JEG: tlf
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1.0 INTRODUCTION

1.1 General

GSE Engineering & Consulting, Inc. (GSE) has completed this geotechnical exploration for the proposed commercial retail store located on SW Marvin Burnett Road in Lake City, Columbia County, Florida. This exploration was performed in accordance with GSE Proposal No. 2023-589 dated September 12, 2023. Ms. Andrea Barnett authorized our services on September 15, 2023.

1.2 Project Description

We understand that you are coordinating due diligence related work related to the development of this site into a commercial retail store. The site is located on the northwest corner of the State Road 47 and SW Marvin Burnett Road intersection in Lake City, Columbia County, Florida. The site is approximately +/-2.72 acres.

You provided GSE with information about the project. We understand the project will consist of an approximate 10,640 square foot building, a parking lot, and a stormwater management facility.

The structure is expected to be a single-story, high wall concrete masonry unit (CMU) and steel frame construction. Structural loads have not been provided but are expected to be on the order of 1 to 2 kips per foot for non-load bearing CMU walls, and less than 50 kips for columns. The finished floor of the structure is anticipated to be constructed within 1 to 2 feet of the existing site grades.

The building will be located in the northern portion of the site. The parking lot will be located west, south, and east of the structure. The stormwater management facility will be located on the western portion of the site.

A recent aerial photograph of the site was obtained and reviewed. The site plan and aerial photograph were used in preparation of this exploration and report.

1.3 Purpose

The purpose of this geotechnical exploration was to determine the general subsurface conditions, evaluate these conditions with respect to the proposed construction, and prepare geotechnical parameters and recommendations to assist with building foundation, stormwater management, and pavement designs.

2.0 FIELD AND LABORATORY TESTS

2.1 General Description

The procedures used for field sampling and testing are in general accordance with industry standards of care and established geotechnical engineering practices for this geographic region. This exploration consisted of performing five (5) Standard Penetration Test (SPT) borings to a depth of 20 feet below land surface (bls) within the proposed building area, five (5) auger borings to a depth of 5 feet bls in the area of the parking lot and driveways, and five (5) auger borings to depths of 15 feet bls in the area of the stormwater management facility.

The soil borings were performed at the approximate locations as shown on Figure 2. The borings were located at the site using the provided site plan, Global Positioning System (GPS) coordinates, and obvious site features as reference. The boring locations should be considered approximate. The soil borings were performed on September 20, 2023.

2.2 Auger Borings

The auger borings were performed in accordance with ASTM D1452. The borings were performed with flight auger equipment that was rotated into the ground in a manner that reduces soil disturbance. After penetrating to the required depth, the auger was retracted and the soils collected on the auger flights were field classified and placed in sealed containers. Representative samples of each stratum were retained from the auger boring. Results from the auger borings are provided in Section 5.1.

2.3 Standard Penetration Test Borings

The soil borings were performed with a drill rig employing mud rotary drilling techniques and Standard Penetration Testing (SPT) in accordance with ASTM D1586. The SPTs were performed continuously to 10 feet and at 5-foot intervals thereafter. Soil samples were obtained at the depths where the SPTs were performed. The soil samples were classified in the field, placed in sealed containers, and returned to our laboratory for further evaluation.

After drilling to the sampling depth, the standard two-inch O.D. split-barrel sampler was seated by driving it 6 inches into the undisturbed soil. The sampler was then driven an additional 12 inches by blows of a 140-pound hammer falling 30 inches. The number of blows required to produce the next 12 inches of penetration were recorded as the penetration resistance (N-value). These values and the complete SPT boring logs are provided in Section 5.2.

Upon completion of the sampling, the boreholes were abandoned in accordance with Water Management District guidelines.

2.4 Soil Laboratory Tests

The soil samples recovered from the soil borings were returned to our laboratory, and examined to confirm the field descriptions. Representative samples were then selected for laboratory testing. The laboratory tests consisted of nine (9) percent soil fines passing the No. 200 sieve, nine (9) natural moisture content determinations, two (2) Atterberg Limits tests, and three (3) constant head hydraulic conductivity tests. These tests were performed in order to aid in classifying the soils and to further evaluate their engineering properties. The laboratory tests are provided in Section 5.3.

3.0 FINDINGS

3.1 Surface Conditions

Karen Roylos with GSE visited the site on September 18, 2023 to observe the site conditions and mark the boring locations. Mr. Jason Kite with Jason Kite, LLC was retained by GSE to clear lanes to allow access to the boring locations for drilling equipment.

The majority of the site is densely vegetated with trees, scattered saw palmettos, shrubs, vines and weedy groundcover. Portions of the site were densely vegetated and more difficult to traverse. To the south of the site is SW Marvin Burnett Road. State Road 47 is located east of the site. Undeveloped wooded land borders the site to the north and west.

The topography at the site is moderately sloping from northeast towards southwest. Regional topography can be characterized as gently to moderately sloping. The Lake City West USGS Topographic Map indicates the ground surface elevations at the site are near 155 to 165 feet¹ NAVD 88.

3.2 Subsurface Conditions

The locations of the auger and SPT borings are provided on Figure 2. Complete logs for the borings are provided in Sections 5.1 and 5.2. Descriptions for the soils encountered are accompanied by the Unified Soil Classification System symbol (SM, SP-SM, etc.) and are based on visual examination of the recovered soil samples and the laboratory tests performed. Stratification boundaries between the soil types should be considered approximate, as the actual transition between soil types may be gradual.

The auger borings located within the proposed parking lot and driveways encountered relatively similar soil conditions. Auger borings A-1 to A-3 encountered poorly graded sand, and sand with silt (SP, SP-SM) to the explored depths of 5 feet bls. Auger borings A-4 and A-5 initially encountered sand with silt (SP-SM) to depths of 1.5 to 3.5 feet bls. This was underlain by clayey to very clayey sand (SC, SC/CL) to the explored depths of 5 feet bls.

The auger borings located within the stormwater management facility encountered relatively consistent soil conditions. Auger boring P-1 encountered 6 feet of silty sand, and poorly graded sand (SM, SP) overlying clayey to very clayey sand, and clay with sand (SC, SC/CL, CL/CH) to the explored depth of 15 feet bls. Auger borings P-2 to P-4 initially encountered poorly graded sand, sand with silt, and silty sand (SP, SP-SM, SM) to depths of 2 to 5 feet bls, overlying silty clayey sand, and clayey to very clayey sand (SM-SC, SC, SC/CL) to depths of 7 to 10.5 feet bls. This was underlain by sand with silt (SP-SM) to depths of 12 to 13.5 feet bls, followed by clay-rich soils (CL/CH) to the explored depth of 15 feet bls. Auger boring P-5 initially encountered 5.5 feet of clayey sand (SC) and 5 feet of sand with silt (SP-SM) overlying clay with sand (CL/CH) to a depth of 12.5 feet bls. This was underlain by sand with silt (SP-SM) to the explored depth of 15 feet bls.

¹ United States Geological Survey, Lake City West Quadrangle, 2021.

The SPT borings located within the proposed building footprint indicate the soils across these areas are relatively consistent. SPT boring B-1 initially encountered 3 feet of sand with silt (SP-SM), and 4.5 feet of sandy clay (CL) overlying sand with clay, and poorly graded sand (SP-SC, SP) to a depth of 12 feet bls. This was underlain by clay (CL/CH) to the explored depth of 20 feet bls. SPT borings B-2 to B-5 encountered poorly graded sand, sand with silt, sand with clay, silty sand, and silty clayey sand (SP, SP-SM, SP-SC, SM-SC) with some interbedded layers of clayey to very clayey sand (SC, SC/CL) to depths of 13.5 to 17.5 feet bls. This was underlain by clay-rich (CL, CL/CH) soils to the explored depths of 20 feet bls.

The sandy soils (SP, SP-SM, SP-SC) encountered are generally in a very loose to dense condition with N-values ranging from 2 to 45 blows per foot. The silty sand, silty clayey sand, and clayey to very clayey sands (SM, SM-SC, SC, SC/CL) encountered are generally in a very loose to dense condition with N-values ranging from 4 to 38 blows per foot. The sandy clay, clay with sand, and clay (CL/CH, CL) encountered are generally in a very soft to hard condition with N-values ranging from 3 to 33 blows per foot.

Weight-of-rod strength material was encountered in SPT boring B-2 at depth range from 13.5 to 14.5 feet bls. This isolated occurrence is likely related to depositional characteristics of the soil materials and transitions between material types.

The groundwater table was encountered in the auger and SPT borings at depths of 6.1 to 8.8 feet bls at the time of our investigation.

3.3 Review of Published Data

The majority of the site is mapped as three soil series by the Soil Conservation Service (SCS) Soil Survey for Columbia County². The following soil descriptions are from the Soil Survey.

Blanton fine sand, 0 to 5 percent slopes

Map Unit Setting

- *National map unit symbol:* 2w0q2
- *Elevation:* 30 to 200 feet
- *Mean annual precipitation:* 51 to 59 inches
- *Mean annual air temperature:* 64 to 72 degrees F
- *Frost-free period:* 258 to 310 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Blanton and similar soils:* 85 percent
- *Minor components:* 15 percent
- *Estimates are based on observations, descriptions, and transects of the map unit.*

² Soil Survey of Hamilton County, Florida. Soil Conservation Service, U.S. Department of Agriculture.

Description of Blanton

Setting

- *Landform*: Knolls on marine terraces, ridges on marine terraces
- *Landform position (two-dimensional)*: Backslope
- *Landform position (three-dimensional)*: Side slope, interfluvial, riser
- *Down-slope shape*: Convex
- *Across-slope shape*: Linear
- *Parent material*: Sandy and loamy marine deposits

Typical profile

- *A - 0 to 7 inches*: fine sand
- *E - 7 to 52 inches*: fine sand
- *Bt - 52 to 80 inches*: fine sandy loam

Properties and qualities

- *Slope*: 0 to 5 percent
- *Depth to restrictive feature*: More than 80 inches
- *Drainage class*: Moderately well drained
- *Runoff class*: Negligible
- *Capacity of the most limiting layer to transmit water (Ksat)*: Moderately high to high (0.20 to 6.00 in/hr)
- *Depth to water table*: About 42 to 72 inches
- *Frequency of flooding*: None
- *Frequency of ponding*: None
- *Maximum salinity*: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Sodium adsorption ratio, maximum*: 4.0
- *Available water supply, 0 to 60 inches*: Low (about 3.6 inches)

Interpretive groups

- *Land capability classification (irrigated)*: None specified
- *Land capability classification (nonirrigated)*: 3s
- *Hydrologic Soil Group*: A
- *Forage suitability group*: Sandy soils on rises, knolls, and ridges of mesic uplands (G138XA121FL)
- *Other vegetative classification*: Sandy soils on rises, knolls, and ridges of mesic uplands (G138XA121FL)
- *Hydric soil rating*: No

Minor Components

Albany

- *Percent of map unit:* 6 percent
- *Landform:* Ridges on marine terraces
- *Landform position (two-dimensional):* Shoulder
- *Landform position (three-dimensional):* Interfluve, talf
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy soils on rises and knolls of mesic uplands (G138XA131FL), North Florida Flatwoods (R138XY004FL)
- *Hydric soil rating:* No

Troup

- *Percent of map unit:* 4 percent
- *Landform:* Ridges, knolls
- *Landform position (two-dimensional):* Summit
- *Landform position (three-dimensional):* Interfluve
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy soils on ridges and dunes of xeric uplands (G133AA111FL), Longleaf Pine-Turkey Oak Hills (R133AY002FL)
- *Hydric soil rating:* No

Chipley

- *Percent of map unit:* 3 percent
- *Landform:* Knolls on marine terraces, rises on marine terraces, flats on marine terraces
- *Landform position (two-dimensional):* Shoulder, footslope
- *Landform position (three-dimensional):* Interfluve
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy soils on rises and knolls of mesic uplands (G138XA131FL)
- *Hydric soil rating:* No

Alpin

- *Percent of map unit:* 2 percent
- *Landform:* Flatwoods on marine terraces, knolls on marine terraces, ridges on marine terraces
- *Landform position (two-dimensional):* Shoulder, backslope
- *Landform position (three-dimensional):* Interfluve
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy soils on ridges and dunes of xeric uplands (G138XA111FL), Sand Pine Scrub (R153AY001FL)
- *Hydric soil rating:* No

Ichetucknee fine sand, 5 to 8 percent slopes

Map Unit Setting

- *National map unit symbol:* vrt4
- *Elevation:* 330 to 660 feet
- *Mean annual precipitation:* 50 to 58 inches
- *Mean annual air temperature:* 64 to 72 degrees F
- *Frost-free period:* 258 to 288 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Ichetucknee and similar soils:* 80 percent
- *Minor components:* 20 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Ichetucknee

Setting

- *Landform:* Hills on marine terraces, ridges on marine terraces
- *Landform position (three-dimensional):* Interfluve, side slope
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Parent material:* Sandy and clayey marine deposits over limestone

Typical profile

- *A - 0 to 4 inches:* fine sand
- *E - 4 to 7 inches:* fine sand
- *Bg - 7 to 75 inches:* clay
- *2R - 75 to 79 inches:* weathered bedrock

Properties and qualities

- *Slope:* 5 to 8 percent
- *Depth to restrictive feature:* 50 to 75 inches to lithic bedrock
- *Drainage class:* Somewhat poorly drained
- *Runoff class:* Negligible
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)
- *Depth to water table:* About 18 to 36 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Sodium adsorption ratio, maximum:* 4.0
- *Available water supply, 0 to 60 inches:* Moderate (about 8.4 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 6e
- *Hydrologic Soil Group:* D
- *Forage suitability group:* Loamy and clayey soils on rises, knolls, and ridges of mesic uplands (G138XA322FL)
- *Other vegetative classification:* Loamy and clayey soils on rises, knolls, and ridges of mesic uplands (G138XA322FL)
- *Hydric soil rating:* No

Minor Components

Goldsboro

- *Percent of map unit:* 10 percent
- *Landform:* Knolls on marine terraces, ridges on marine terraces
- *Landform position (three-dimensional):* Interfluve
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Loamy and clayey soils on flats and rises of mesic lowlands (G138XA331FL)
- *Hydric soil rating:* No

Ocilla

- *Percent of map unit:* 10 percent
- *Landform:* Rises on marine terraces
- *Landform position (three-dimensional):* Interfluve
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy over loamy soils on rises and knolls of mesic uplands (G138XA231FL)
- *Hydric soil rating:* No

Pelham fine sand, 0 to 2 percent slopes

Map Unit Setting

- *National map unit symbol:* 2tg56
- *Elevation:* 0 to 190 feet
- *Mean annual precipitation:* 48 to 63 inches
- *Mean annual air temperature:* 57 to 79 degrees F
- *Frost-free period:* 251 to 293 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Pelham and similar soils:* 75 percent
- *Minor components:* 25 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Pelham

Setting

- *Landform*: Flatwoods
- *Landform position (three-dimensional)*: Talf
- *Down-slope shape*: Linear
- *Across-slope shape*: Linear
- *Parent material*: Sandy and loamy marine deposits

Typical profile

- *A - 0 to 6 inches*: fine sand
- *Eg - 6 to 26 inches*: fine sand
- *Btg1 - 26 to 42 inches*: sandy clay loam
- *Btg2 - 42 to 83 inches*: sandy clay loam

Properties and qualities

- *Slope*: 0 to 2 percent
- *Depth to restrictive feature*: More than 80 inches
- *Drainage class*: Poorly drained
- *Runoff class*: High
- *Capacity of the most limiting layer to transmit water (Ksat)*: Moderately high to high (0.20 to 5.95 in/hr)
- *Depth to water table*: About 6 to 12 inches
- *Frequency of flooding*: None
- *Frequency of ponding*: None
- *Maximum salinity*: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Sodium adsorption ratio, maximum*: 4.0
- *Available water supply, 0 to 60 inches*: Moderate (about 7.0 inches)

Interpretive groups

- *Land capability classification (irrigated)*: None specified
- *Land capability classification (nonirrigated)*: 3w
- *Hydrologic Soil Group*: B/D
- *Ecological site*: F153AY060NC - Wet Loamy Flats and Depressions
- *Forage suitability group*: Sandy over loamy soils on flats of hydric or mesic lowlands (G153AA241FL)
- *Other vegetative classification*: Sandy over loamy soils on flats of hydric or mesic lowlands (G153AA241FL)
- *Hydric soil rating*: No

Minor Components

Unnamed

- *Percent of map unit:* 13 percent
- *Landform:* Flatwoods
- *Landform position (three-dimensional):* Talf
- *Down-slope shape:* Linear
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy over loamy soils on flats of hydric or mesic lowlands (G153AA241FL)
- *Hydric soil rating:* Yes

Albany

- *Percent of map unit:* 6 percent
- *Landform:* Flatwoods
- *Landform position (three-dimensional):* Talf
- *Microfeatures of landform position:* Rises
- *Down-slope shape:* Convex
- *Across-slope shape:* Convex
- *Ecological site:* F153AY040NC - Moist Loamy Rises and Flats
- *Other vegetative classification:* Sandy soils on rises and knolls of mesic uplands (G153AA131FL)
- *Hydric soil rating:* No

Meggett

- *Percent of map unit:* 3 percent
- *Landform:* Flatwoods
- *Landform position (three-dimensional):* Talf
- *Down-slope shape:* Linear
- *Across-slope shape:* Linear
- *Ecological site:* F153AY090NC - Flooded Mineral Soil Floodplains and Terraces
- *Other vegetative classification:* Loamy and clayey soils on flats of hydric or mesic lowlands (G153AA341FL)
- *Hydric soil rating:* Yes

Surrency

- *Percent of map unit:* 3 percent
- *Landform:* Drainageways, depressions
- *Landform position (three-dimensional):* Dip
- *Down-slope shape:* Linear, concave
- *Across-slope shape:* Convex, concave
- *Ecological site:* F153AY060NC - Wet Loamy Flats and Depressions
- *Other vegetative classification:* Sandy over loamy soils on stream terraces, flood plains, or in depressions (G153AA245FL)
- *Hydric soil rating:* Yes

3.4 Laboratory Soil Analysis

Selected soil samples recovered from the soil borings were analyzed for the percent soil fines passing the No. 200 sieve, natural moisture content, Atterberg Limits, and hydraulic conductivity. Samples selected for laboratory testing were collected at depths ranging from near-surface to 15 feet bls. These tests were performed to confirm visual soil classification and evaluate their engineering properties. The complete laboratory report is provided in Section 5.3.

The laboratory tests indicate the tested soils consist sand with silt, silty sand, silty sand with clay, sand with clay, clayey sand, very clayey sand, and sandy clay. The tested sand with silt (SP-SM) contains approximately 11 percent soil fines passing the No. 200 sieve with a natural moisture content of about 8.7 percent. The tested silty sand, and silty sand with clay (SM, SM-SC) contains approximately 14 to 27 percent soil fines passing the No. 200 sieve with natural moisture contents of about 7.8 to 18 percent. The tested sand with clay (SP-SC) contains approximately 11 percent soil fines passing the No. 200 sieve with a natural moisture content of about 17 percent. The tested clayey sand (SC) contains approximately 30 percent soil fines passing the No. 200 sieve with a natural moisture content of about 13 percent. The tested very clayey sand (SC/CL) contains approximately 34 percent soil fines passing the No. 200 sieve with a natural moisture content of about 18 percent. The tested sandy clay (CL) contains approximately 56 to 62 percent soil fines passing the No. 200 sieve with natural moisture contents of about 17 to 23 percent.

Atterberg Limits tests indicate the tested sandy clay (CL) has Liquid Limit (LL) values of 35 and 41, Plastic Limit (PL) values of 15 to 18, and Plasticity Index (PI) values of 17 and 26. These values correspond to materials with low potential ($LL < 50$) to marginal potential ($PI \leq 35$) for expansive behavior³.

The constant head hydraulic conductivity test results indicate the near-surface silty sand (SM) has hydraulic conductivity values of 0.8 to 1.1 feet per day. The tested clayey sand (SC) has no flow. Tests were not conducted on the deeper very clayey sand due to the limitations of the test method on soils having moderate to high fines content, but these soils are expected to have permeability values at least one order of magnitude lower than the sandy soils.

³ U.S. Department of the Army USA, 1983, Foundations in Expansive Soils, TM 5-818-7, p. 4-1.

4.0 EVALUATION AND RECOMMENDATIONS

4.1 General

The following recommendations are made based upon our understanding of the proposed construction, a review of the attached soil borings and laboratory test data, and experience with similar projects and subsurface conditions. If plans or the location of proposed construction changes from those discussed previously, GSE requests the opportunity to review and possibly amend our recommendations with respect to those changes.

The final design of a foundation system is dependent upon adequate integration of geotechnical and structural engineering considerations. Consequently, GSE must review the final foundation design in order to evaluate the effectiveness and applicability of our initial analyses, and to determine if additional recommendations may be warranted. Without such a review, the recommendations presented herein could be misinterpreted or misapplied resulting in potentially unacceptable performance of the foundation system.

The performance of site improvements may be sensitive to their post-construction relationship to site groundwater levels, seepage zones, or soil/rock characteristics exposed at final site grades. GSE recommends that use of boring information for final design of all site improvements be predicated on proper horizontal and vertical control of borings.

In this section of the report, we present our geotechnical parameters and recommendations to assist with building foundation, stormwater management, and pavement designs as well as our general site preparation guidelines.

4.2 Groundwater

The groundwater table was encountered in the borings at depths of 6.1 to 8.8 feet bls at the time of our exploration. The Soil Survey indicates the groundwater table is typically at a depth of near-surface to 6 feet bls. We anticipate the seasonal high groundwater table will be near depths of 1 to 3.5 feet bls. Estimates for the seasonal high groundwater table are shown on the individual boring logs.

4.3 Building Foundations

The SPT borings located within the proposed building footprint indicate the soils across these areas are relatively consistent. SPT boring B-1 initially encountered 3 feet of sand with silt (SP-SM), and 4.5 feet of sandy clay (CL) overlying sand with clay, and poorly graded sand (SP-SC, SP) to a depth of 12 feet bls. This was underlain by clay (CL/CH) to the explored depth of 20 feet bls. SPT borings B-2 to B-5 encountered poorly graded sand, sand with silt, sand with clay, silty sand, and silty clayey sand (SP, SP-SM, SP-SC, SM-SC) with some interbedded layers of clayey to very clayey sand (SC, SC/CL) to depths of 13.5 to 17.5 feet bls. This was underlain by clay-rich (CL, CL/CH) soils to the explored depths of 20 feet bls.

Based upon the soil conditions encountered and our limited understanding of the structural loads and site grading, we recommend the building be supported by conventional, shallow strip and/or spread foundations. We recommend the shallow foundations be designed for a maximum allowable gross bearing pressure of 2,500 psf. The gross bearing pressure is defined as the soil contact pressure that can be imposed from the maximum structural loads, weight of the concrete foundations, and weight of the soil above the foundations. The foundations should be designed based upon the maximum load that could be imposed by all loading conditions.

The foundations should be embedded a minimum of 18 inches below the lowest adjacent grade. Interior foundations or thickened sections should be embedded a minimum of 12 inches. The foundations should have minimum widths of 18 inches for strip footings, and 24 inches for columns, even though the maximum soil bearing pressure may not be fully developed.

Due to the mostly sandy nature of the majority of the near-surface soils, we expect settlement to be mostly elastic in nature. The majority of the settlement will occur on application of the loads, during and immediately following construction. Using the recommended maximum bearing pressure, the assumed maximum structural loads, and the field and laboratory test data which we have correlated into the strength and compressibility characteristics of the subsurface soils, we estimate the total settlements of the structure to be 1 inch or less, with approximately half of it occurring upon load application (during construction).

Differential settlement results from differences in applied bearing pressures and the variations in the compressibility characteristics of the subsurface soils. For the building pad prepared as recommended, we anticipate differential settlement of less than 1/2 inch.

Post-construction settlement of the structures will be influenced by several interrelated factors, such as (1) subsurface stratification and strength/compressibility characteristics of the bearing soils; (2) footing size, bearing level, applied loads, and resulting bearing pressures beneath the foundation; (3) site preparation and earthwork construction techniques used by the contractor, and (4) external factors, including but not limited to vibration from off-site sources and groundwater fluctuations beyond those normally anticipated for the naturally-occurring site and soil conditions which are present.

Our settlement estimates for the structure are based upon our limited understanding of the structural loads and site grading and the use of successful adherence to the site preparation recommendations presented later in this report. Any deviation from our project understanding and/or our site preparation recommendations could result in an increase in the estimated post-construction settlement of the structure.

4.4 Flexible Pavement

Overall soil conditions encountered by our borings at this site are suitable for supporting conventional limerock base and asphalt wearing surface pavements. We have not been provided the anticipated traffic loading conditions; therefore, the following pavement component recommendations should be used only as guidelines. The below recommendations are intended to be minimums. Increasing base course and asphalt thicknesses would increase the design life of the pavement.

The seasonal high groundwater table is estimated to be approximately 12 inches to about 3.5 feet beneath existing grade across the site. We recommend a minimum of either 12 to 24 inches of separation (depending upon the pavement section design) be present between the bottom of the base course and the estimated seasonal high groundwater table. If this separation cannot be achieved by site grading, GSE recommends underdrains be used beneath the base course.

4.4.1 Stabilized Subgrade

If a crushed limerock or recycled concrete base is used, we recommend a stabilized subgrade be located beneath the base. The stabilized subgrade should have a minimum Limerock Bearing Ratio (LBR) of 40, with minimum thicknesses of 6 inches for automobile parking areas and 12 inches for driveways.

The stabilized subgrade can be imported material or a mixture of imported and on-site material. If a mix is proposed, a mix design should be performed to determine the optimum mix proportions. The stabilized subgrade should be compacted to a minimum of 98 percent of the Modified Proctor maximum dry density (ASTM D1557) for soils with less than 15 percent fines content. Soils with 15 percent or greater fines content should be compacted to 100 percent of the Standard Proctor maximum dry density (ASTM D698).

4.4.2 Base Course

The base course can consist of either crushed limerock, soil cement, or recycled concrete. If you should use a soil cement base course, a stabilized subgrade is not required.

Limerock should have an LBR of at least 100, be obtained from a FDOT approved source and meet FDOT gradation requirements. The base course thickness should be a minimum of 6 inches in automobile parking areas, and 8 inches in driveway areas. The base course should be compacted to at least 98 percent of the Modified Proctor maximum dry density (ASTM D1557). We recommend a minimum 24 inches separation between the bottom of the limerock base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.

Soil cement can consist of an imported material or a blend of the on-site soils and cement. A mix design should be performed to determine the optimum cement content. We recommend the soil cement have a minimum 28-day compressive strength of 500 psi. Soil cement can be blended off-site (in a pug mill) or on site. Soil cement pills should be cast from each day's production to verify the recommended compressive strength has been achieved at 28 days. We recommend the soil cement base course be a minimum of 8 inches thick throughout the project. We recommend a minimum 18 inches separation between the bottom of the soil cement base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.

Recycled concrete should have an LBR of at least 150, be obtained from a FDOT approved source and meet FDOT gradation requirements. The base course thickness should be a minimum of 8 inches. The base course should be compacted to at least 98 percent of the Modified Proctor maximum dry density (ASTM D1557). We recommend a minimum 12 inches separation between the bottom of the recycled concrete base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.

4.4.3 Wearing Surface

The asphalt-wearing surface should consist of an FDOT Type SP Hot Mix Asphalt mixture. For automobile parking areas, the thickness should be a minimum of 1.5 inches. For driveway areas, the thickness should be a minimum of 2 inches. The asphalt-wearing surface should consist of an SP-12.5 mix. The asphalt should be compacted to at least 95 percent of the mix design density.

The constructability of differing asphalt thicknesses may be difficult, and having a uniform 2-inch thick asphalt wearing surface may be more practical.

4.5 Rigid Pavement

Concrete pavement is a rigid pavement that results in smaller load transfers to the subgrade soils than flexible pavement. For concrete pavement subgrade, we recommend using the existing surficial sands or recommended clean sand (SP) fill, compacted to at least 98 percent of the Modified Proctor maximum dry density without additional stabilization with the following stipulations:

1. Subgrade soils must be compacted to at least 98 percent of Modified Proctor maximum dry density to a depth of at least 2 feet prior to placement of concrete.
2. The surface of the subgrade soils must be smooth and any disturbances or wheel rutting corrected prior to placement of the concrete.
3. The subgrade soils must be moistened prior to placement of concrete.
4. Concrete pavement thickness should be uniform throughout, with the exception of thickened edges (curb or footing).
5. The bottom of the pavement should be separated from the estimated seasonal high groundwater level by at least 18 inches.
6. Limerock or any other impermeable base is not suitable unless it meets the minimum recommended permeability of 10 ft/day.
7. The upper 12 inches of subgrade underlying the base course must also be “free-draining” and water that enters the base and subgrade must be allowed to seep out by gravity or if this is not possible, underdrains must be incorporated into the subgrade. A “bathtub” condition within the base/subgrade must be avoided.

Our recommendations for slab thickness for both light-duty and heavy-duty concrete pavements is based on a.) subgrade soils are compacted to 98 percent of the Modified Proctor maximum dry density, b.) modulus of subgrade reaction (k) of 200 pounds per cubic inch, c.) a 20-year design life, and d.) previously stated design parameters. For an anticipated light-duty traffic group, a minimum pavement thickness of 5.5 inches is recommended, using Table 2.4 from the ACI 330 Guide for Design and Construction of Concrete Parking Lots, ACI 330R-01. For an anticipated heavy-duty traffic group, a minimum pavement thickness of 8 inches is recommended, using Table 3.4 from the FDOT *Rigid Pavement Design Manual*, January 2019.

We recommend using concrete with a minimum 28-day compressive strength of 4,000 pounds per square inch and a minimum 28-day flexural strength (modulus of rupture) of at least 600 pounds per square inch based on the third point loading of concrete beam test samples. Maximum control joint spacing of 12.5 by 12.5 feet is suggested for light-duty concrete pavements. Maximum control joint spacing of 15 by 15 feet is suggested for heavy-duty concrete pavements. Layout of sawcut control joints should form square panels, and the depth of sawcut joint should be at least 1/4 of the concrete slab thickness. The joints should be sawed within six hours of concrete placement or as soon as the concrete has developed sufficient strength to support workers and equipment.

For further details on concrete pavement construction, refer to “Guide to Jointing Non-reinforced Concrete Pavements” published by the Florida Concrete and Products Associates, Inc. and “Building Quality Concrete Parking Areas”, published by the Portland Cement Association.

4.6 Site Preparation

The soils at this site should be suitable for supporting the proposed construction using normal, good practice site preparation procedures. The following recommendations are our general guidelines for site preparation.

4.6.1 Stripping

Strip the construction limits and 10 feet beyond the perimeter of all grass, roots, topsoil, and other deleterious materials. You should expect to strip to depths of 12 or more inches. Deeper stripping will likely be necessary due to major root systems present at the site.

4.6.2 Dewatering

Temporary dewatering may be necessary for this project. If needed, we anticipate dewatering can be accomplished with sumps placed near the construction area, or with underdrains connected to a vacuum pump.

In any case, the site should always be graded to promote runoff and limit the amount of ponding. Localized ponding of stormwater is expected without proper grading during construction, and could render previously acceptable surfaces unacceptable.

4.6.3 Proof-Rolling

Proof-roll the subgrade with heavy rubber-tired equipment, such as a loaded front-end loader or dump truck, to identify any loose or soft zones not found by the soil borings. The proof-rolling should be monitored by a geotechnical engineer or qualified technician. Undercut or otherwise treat these zones as recommended by the geotechnical engineer in this report.

4.6.4 Proof Compaction

Compact the subgrade to a density of at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557). The specified compaction should be obtained to a depth of 1 foot below the foundation bottoms and the existing grade prior to placing fill. Vibratory roller equipment should not be used within approximately 100 feet of existing structures. Lighter “walk-behind” compaction equipment may be used to achieve the degree of compaction.

Should clayey sand be encountered at the bearing surface, this material should be probed and visually confirmed to be unyielding in the upper 12 inches in lieu of density testing. If the foundation excavations penetrate the clayey sand, the excavation should be performed in a manner that reduces soil disturbance. Clayey sand soils (with fines content in excess of 15 percent) that are removed and replaced or appreciably disturbed need to be re-compacted to 98 percent of the Standard Proctor maximum dry density (ASTM D698).

4.6.5 Fill Placement

Imported fill placed to raise the site grades should consist of clean sand having less than 10 percent passing the No. 200 sieve. On-site soils meeting the requirements of Section 4.9 may also be used as structural fill. The fill should be placed in maximum 12-inch loose lifts that are compacted to at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557). If lighter “walk-behind” compaction equipment is used, this may require lifts of 4 inches or less to achieve the required degree of compaction.

4.7 Quality Control and Construction Materials Testing

It should be noted that the geotechnical engineering design does not end with the advertisement of the construction documents. As the geotechnical engineer of record, GSE is the most qualified to perform the construction materials testing that will be required for this project. The benefits of having the geotechnical engineer of record also perform the construction materials testing are numerous. If GSE continues to be involved with the project through construction, we will be able to constantly re-evaluate and possibly alter our geotechnical recommendations in a timely and cost effective manner once final design and construction techniques are developed. This often results in cost savings for the project.

We recommend performing compaction testing beneath the concrete floor slab and the building foundations. We recommend one test be performed every 50 linear feet of continuous footing and every other column footing, per foot depth of fill or native material. We recommend a compaction test be performed for each 2,500 square feet of floor area or 10,000 square feet of pavement area per foot of fill or native material, or a minimum of three tests each, whichever is greater. Test all footing excavations to a depth of 12 inches at the frequencies stated above.

4.8 Stormwater Management

The auger borings located within the stormwater management facility encountered relatively consistent soil conditions. Auger boring P-1 encountered 6 feet of silty sand, and poorly graded sand (SM, SP) overlying clayey to very clayey sand, and clay with sand (SC, SC/CL, CL/CH) to the explored depth of 15 feet bls. Auger borings P-2 to P-4 initially encountered poorly graded sand, sand with silt, and silty sand (SP, SP-SM, SM) to depths of 2 to 5 feet bls, overlying silty clayey sand, and clayey to very clayey sand (SM-SC, SC, SC/CL) to depths of 7 to 10.5 feet bls. This was underlain by sand with silt (SP-SM) to depths of 12 to 13.5 feet bls, followed by clay-rich soils (CL/CH) to the explored depth of 15 feet bls. Auger boring P-5 initially encountered 5.5 feet of clayey sand (SC) and 5 feet of sand with silt (SP-SM) overlying clay with sand (CL/CH) to a depth of 12.5 feet bls. This was underlain by sand with silt (SP-SM) to the explored depth of 15 feet bls.

The water table was encountered in the auger borings at depths of 7.5 to 8.8 feet bls at the time of our exploration. We anticipate the seasonal high groundwater table to be at depths of 1 to 2.5 feet bls.

The laboratory permeability tests indicate the surficial layers of silty sand (SM) has hydraulic conductivity values of 0.8 to 1.1 feet per day, and clayey sand (SC) has no flow. The deeper very clayey sand encountered below the surficial sandy soils is friable and will have permeability values at least one order of magnitude lower than the sandy soils. The underlying dense soils and clay-rich soils are expected to be confining soils.

Mr. Cole Menhennett with CHW confirmed the proposed stormwater management facility as a dry pond via email. We understand that the current design will consider underdrains. We understand that imported clean sand will be used for the backfill for the underdrains. This revision includes soil parameters considering and underdrain design with clean sand backfill.

Based upon our findings and test results, our recommended soil parameters for the stormwater management design in the explored areas are presented below. The recommended parameters consider the results of the permeability tests, wash 200 determinations, and our experience with these types of soils. The parameters below do not consider a factor of safety.

Proposed Stormwater Management Facility

1. Base elevation of effective or mobilized aquifer (average depth of confining layer) equal to 8 feet bls.
2. Unsaturated vertical infiltration rate of 10 foot per day.
3. Horizontal hydraulic conductivity equal to 10 feet per day.
4. Specific yield (fillable porosity) of 20 percent.
5. Average seasonal high groundwater table depth equal to 2 feet bls.
6. Average seasonal low groundwater table depth equal to 6 feet bls.

In areas where clay-rich soils are present at the basin bottom, we recommend these soils be undercut a minimum of 2 feet and backfilled with the on-site sands and sands with silt (SP, SP-SM) having a maximum of 12 percent soil fines passing the No. 200 sieve. This fill should also be used above the bottom of the underdrains. The intent of this undercutting and replacement is to provide a more uniform sand “blanket” at the basin bottom that allows the migration of water to the underdrains. This sand blanket will also reduce the potential for clay-fines leaching out of the soils when water is present in the basin that can result in a thin layer of confining type material on the basin bottom that can reduce the effectiveness of the basin.

4.9 Fill Suitability

The soils encountered at this site within the explored depths range from sands (SP) to clays (CL/CH). A discussion of the suitability for reuse as structural fill for each soil classification according to the Unified Soil Classification System (USCS) designation is provided below.

SP, SP/SM – Sands (SP) and sand with silt (SP/SM) have less than 5 percent and 12 percent soil fines passing the No. 200 sieve, respectively, and are typically well draining soils that are suitable for reuse as structural fill. The sands with silt may require moisture conditioning (drying) to make the material more workable. These soils will require stockpiling and drying before they are reused if they are excavated from below the water table.

SM – Silty sands (SM) can have between 12 percent and 50 percent soil fines passing the No. 200 sieve. Silty sands are typically non-plastic or have low plasticity, and can be reused as structural fill with precautions. Silty sands can be moisture sensitive and difficult to work and compact and can rut if the moisture content is near or above the optimum moisture content. We recommend these soils be moisture conditioned (dried) so that the moisture content during use is at or below the optimum moisture content. Aerating and exposure to the sun is typically the most effective methods of drying these soils. It may not be practical to reuse these materials during the wet season, as frequent rain showers may not allow these soils to dry to a workable moisture content. Suitable silty sands are limited to soil having less than 30 percent soil fines passing the No. 200 sieve. Silty sands with more than 30 percent soil fines are especially moisture sensitive, and are not recommended for reuse as structural fill. These soils will behave more as sandy silt, and for this reason, very silty sands having more than 30 percent soil fines passing the No. 200 sieve have been assigned a dual classification of SM/ML. Silty sand soils that are excavated from below the water table are not recommended for reuse as structural fill due to the amount of time that will be required to dry these soils to a workable condition.

SC – Clayey sand (SC) soils can have between 12 percent and 50 percent soil fines passing the No. 200 sieve. Clayey sands can have a high range of plasticity, varying from a PI of 7 or greater and plotting above the A-line to highly plastic. Friable clayey sands are typically suitable for use as structural fill with precautions. Clayey sands will be moisture sensitive and difficult to work and compact and can rut during placement if the moisture content is near or above the natural moisture content. We recommend these soils be moisture conditioned (dried) so that the moisture content during use is at or below the optimum moisture content. Aerating and exposure to the sun is typically the most effective methods of drying these soils. It may not be practical to reuse these materials during the wet season, as frequent rain showers may not allow these soils to dry to a workable moisture content. Suitable clayey sands are limited to soil having less than 30 percent soil fines passing the No. 200 sieve. Clayey sands with more than 30 percent soil fines passing the No. 200 sieve are especially moisture sensitive and are typically highly plastic, and are not recommended for reuse as structural fill. These soils will behave more as sandy clay, and for this reason, very clayey sands having more than 30 percent soil fines passing the No. 200 sieve have been assigned a dual classification of SC/CH or SC/CL. Clayey sand soils that are excavated from below the water table are not recommended for reuse as structural fill due to the amount of time that will be required to dry these soils to a workable condition.

ML, MH, CL, CH – Silts and clays are not suitable materials for reuse as structural fill.

When using on-site soils as fill materials, we recommend the silty and clayey sand soils (SM, SC) be used in the lower depths of the fill. Sand and sand with silt (SP, SP-SM) should be used in the upper portions of the fill. We recommend a minimum of 2 feet of sand (SP, SP-SM) cover the silty and clayey sand fill materials to reduce the potential for soggy surface conditions due to the low permeability characteristics of the silty and clayey sand materials.

4.10 Surface Water Control and Landscaping

Roof gutters should be considered to divert runoff away from the building. The gutter downspouts should discharge a minimum of 10 feet from the structure to reduce the amount of water collecting around the foundations. Where possible, the gutter downspouts should discharge directly into the storm sewer system or onto the asphalt paved areas in order to reduce the amount of water collecting around the foundations. Grading of the site should be such that water is diverted away from the building on all sides to reduce the potential for erosion and water infiltration along the foundation.

With respect to landscaping, it is recommended that any trees and large “tree-like” shrubbery with potential for developing large root systems be planted a minimum distance of half their mature height, and preferably their expected final height, away from the structure. The purpose of this is to reduce the potential for foundation or slab movements from the growth of root systems as the landscaping matures.

5.0 FIELD DATA

5.1 Auger Boring Logs



GSE Engineering
 5590 SW 64th St
 Gainesville, FL 32608
 Telephone: 3523773233

CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER A-1**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▽ AT TIME OF DRILLING NE CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 3.5 ft
 NOTES _____

DATE PERFORMED 9/20/2023 **BORING NUMBER A-2**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▽ AT TIME OF DRILLING NE CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 3.5 ft
 NOTES _____

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DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION	DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0				(SP) Brown and gray SAND	0				(SP-SM) Dark brown and gray SAND with silt
1		AU 1			1		AU 1		%PASS-200 = 11 MC = 8.7
2		AU 2		(SP) Pale gray and brown SAND	2		AU 2		
3					3				(SP) Pale brown SAND
4					4				
5				Bottom of borehole at 5.0 feet.	5				Bottom of borehole at 5.0 feet.

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CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER A-3**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▽ AT TIME OF DRILLING NE CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 3.5 ft
 NOTES _____

DATE PERFORMED 9/20/2023 **BORING NUMBER A-4**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▽ AT TIME OF DRILLING NE CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 3.0 ft
 NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION	DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0		AU 1		(SP-SM) Brown and gray SAND with silt	0		AU 1		(SP-SM) Brown and gray SAND with silt
1					1				
2		AU 2		(SP) Pale gray and brown SAND	2				(SC/CL) Brown, gray, and orange very clayey SAND
3					3		AU 2		▽ %PASS-200 = 34 MC = 18
4					4				
5				Bottom of borehole at 5.0 feet.	5				Bottom of borehole at 5.0 feet.

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CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER A-5**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▽ AT TIME OF DRILLING NE CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 3.0 ft
 NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0		AU 1		(SP-SM) Brown and gray SAND with silt
1				
2				
3			▽	
3.5				(SC) Brown and gray clayey SAND
4		AU 2		
5				Bottom of borehole at 5.0 feet.

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CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER P-1**

DATE PERFORMED 9/20/2023 **BORING NUMBER P-2**

DRILLING CONTRACTOR Whitaker Drilling, Inc.

DRILLING CONTRACTOR Whitaker Drilling, Inc.

GROUND WATER LEVELS: LOGGED BY WDI

GROUND WATER LEVELS: LOGGED BY WDI

▽ AT TIME OF DRILLING 7.5 ft CHECKED BY AXL

▽ AT TIME OF DRILLING 7.8 ft CHECKED BY AXL

▽ ESTIMATED SEASONAL HIGH 2.5 ft

▽ ESTIMATED SEASONAL HIGH 2.5 ft

NOTES _____

NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION	DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0.0				(SM) Gray and brown silty SAND	0.0		AU 1		(SP) Brown and gray SAND
2.5		AP 1		▽ %PASS-200 = 14 MC = 7.8 k _v = 1.1 ft/day	2.5				▽
4.0		AU 2		(SP) Brown and gray SAND with trace of clay	3.5		AU 2		(SC) Brown and orange clayey SAND
5.0				(SC/CL) Pale gray and brown very clayey SAND	5.0				
6.0					6.0				
7.5		AU 3		▽	7.5		AU 3		(SM-SC) Gray, brown, and orange silty clayey SAND
10.0					10.0				
12.0		AU 4		(CL/CH) Gray CLAY with sand	10.5		AU 4		(SP-SM) Pale gray and brown SAND with silt
12.5					12.5				
13.5		AU 5		(SC) Brown and orange clayey SAND	13.5				(CL/CH) Pale gray and brown CLAY with sand
15.0				Bottom of borehole at 15.0 feet.	15.0		AU 5		
					15.0				Bottom of borehole at 15.0 feet.

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CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER P-3**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▽ AT TIME OF DRILLING 7.5 ft CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 1.5 ft
 NOTES _____

DATE PERFORMED 9/20/2023 **BORING NUMBER P-4**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▽ AT TIME OF DRILLING 8.8 ft CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 2.5 ft
 NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION	DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0.0				(SM) Brown silty SAND	0.0				(SP-SM) Brown and gray SAND with silt
2.5		AP 1		▽ %PASS-200 = 15 MC = 9.7 k _v = 0.8 ft/day	2.5		AU 1		▽
5.0		AU 2		(SC) Brown, gray, and orange clayey SAND	5.0		AU 2		(SC) Brown, gray, and orange clayey SAND
7.5				(SP-SM) Pale gray and pale brown SAND with silt	7.5		AU 3		(SC/CL) Brown, gray, and orange very clayey SAND
10.0		AU 3			10.0		AU 4		(SP-SM) Pale brown and pale gray SAND with silt
12.5		AU 4		(CL/CH) Green CLAY with sand	12.5		AU 5		(CL/CH) Brown and gray CLAY with sand
15.0				Bottom of borehole at 15.0 feet.	15.0				Bottom of borehole at 15.0 feet.

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CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER P-5**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▽ AT TIME OF DRILLING 8.8 ft CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 1.0 ft
 NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0.0				(SC) Brown and gray clayey SAND
2.5				▽
5.0		AP 1		%PASS-200 = 30 MC = 13 k _v = NF
5.5				
7.5		AU 2		(SP-SM) Brown, gray, and orange SAND with silt
10.0				▽
10.5		AU 3		(CL/CH) Gray and brown CLAY with sand
12.5				
12.5		AU 4		(SP-SM) Brown and orange SAND with silt
15.0				Bottom of borehole at 15.0 feet.

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5.2 Standard Penetration Test Soil Boring Logs



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 5590 SW 64th St
 Gainesville, FL 32608
 Telephone: 3523773233

BORING NUMBER B-1

CLIENT Concept Development, Inc. **PROJECT NAME** Dollar General - Lake City SW Marvin Burnett
PROJECT NUMBER 16251 **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 9/20/23 **COMPLETED** 9/20/23 **GROUND ELEVATION** _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Whitaker Drilling, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD Flight Auger ▼ **AT TIME OF DRILLING** 6.5 ft
LOGGED BY WDI **CHECKED BY** AXL ▼ **ESTIMATED SEASONAL HIGH** 3.5 ft
NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	▲ SPT N VALUE ▲								
											20	40	60	80					
0		(SP-SM) Very loose brown SAND with silt																	
				SPT 1	1-1-1 (2)														
		▽ (CL) Firm to very stiff brown, gray, and orange sandy CLAY	3	SPT 2	1-2-3 (5)														
5				SPT 3	4-6-9 (15)	35	18	17	56	17									
				SPT 4	7-10-11 (21)														
		(SP-SC) Medium dense brown, gray, and orange SAND with clay	7.5	SPT 5	8-11-12 (23)														
				SPT 6	9-10-14 (24)														
10		(SP) Medium dense pale gray and brown SAND	9.5																
		(CL/CH) Firm to stiff green and orange CLAY	12																
				SPT 7	3-4-5 (9)														
15																			
				SPT 8	2-3-4 (7)														
20		Bottom of borehole at 20.0 feet.	20																

SPT BORINGS - GINT STD US.GDT - 10/11/23 09:54 - P:\GENERAL\PROJECTS\16251 DOLLAR GENERAL - LAKE CITY SW MARVIN BURNETT\16251 BORINGS\16251 BORINGS.GPJ



GSE Engineering
 5590 SW 64th St
 Gainesville, FL 32608
 Telephone: 3523773233

BORING NUMBER B-2

CLIENT Concept Development, Inc. **PROJECT NAME** Dollar General - Lake City SW Marvin Burnett
PROJECT NUMBER 16251 **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 9/20/23 **COMPLETED** 9/20/23 **GROUND ELEVATION** _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Whitaker Drilling, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD Flight Auger ▼ **AT TIME OF DRILLING** 6.1 ft
LOGGED BY WDI **CHECKED BY** AXL ▼ **ESTIMATED SEASONAL HIGH** 3.5 ft

NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	▲ SPT N VALUE ▲								
											20	40	60	80					
0		(SP-SM) Very loose gray and brown SAND with silt																	
			3	SPT 1	1-2-2 (4)														
		▼ (SM-SC) Very loose to medium dense gray, brown, and orange silty clayey SAND		SPT 2	1-2-2 (4)														
5				SPT 3	2-4-6 (10)														
		▼		SPT 4	7-9-8 (17)														
			8.5	SPT 5	7-8-10 (18)														
10		(SP-SC) Very loose to medium dense pale gray and brown SAND with clay		SPT 6	7-9-10 (19)														
		<i>Weight-of-Rod from 13.5 to 14.5 ft bls.</i>																	
15		(CL/CH) Soft gray sandy CLAY	14.5	SPT 7	0-0-3 (3)														
			16.5																
		(CL/CH) Firm green and orange CLAY																	
20			20	SPT 8	3-3-4 (7)														
		Bottom of borehole at 20.0 feet.																	

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GSE Engineering
 5590 SW 64th St
 Gainesville, FL 32608
 Telephone: 3523773233

BORING NUMBER B-3

CLIENT Concept Development, Inc. **PROJECT NAME** Dollar General - Lake City SW Marvin Burnett
PROJECT NUMBER 16251 **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 9/20/23 **COMPLETED** 9/20/23 **GROUND ELEVATION** _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Whitaker Drilling, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD Flight Auger ▼ **AT TIME OF DRILLING** 6.1 ft
LOGGED BY WDI **CHECKED BY** AXL ▼ **ESTIMATED SEASONAL HIGH** 3.5 ft
NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	▲ SPT N VALUE ▲								
											20	40	60	80					
0		(SP-SM) Very loose gray and brown SAND with silt																	
2.5		(SP) Loose pale gray SAND	2.5	SPT 1	1-1-1 (2)														
4.5		(SP-SC) Loose to gray and brown SAND with clay	4.5	SPT 2	1-2-4 (6)														
6		(SC/CL) Medium dense to dense gray, brown, and orange very clayey SAND	6	SPT 3	2-4-5 (9)														
13.5		(CL) Firm gray sandy CLAY	13.5	SPT 4	6-2-9 (11)														
15		(CL/CH) Green and orange CLAY	15	SPT 5	7-9-11 (20)														
16			16	SPT 6	14-16-22 (38)														
20		Bottom of borehole at 20.0 feet.	20	SPT 7	2-3-3 (6)	41	15	26	62	23									

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GSE Engineering
 5590 SW 64th St
 Gainesville, FL 32608
 Telephone: 3523773233

BORING NUMBER B-4

CLIENT Concept Development, Inc. PROJECT NAME Dollar General - Lake City SW Marvin Burnett
 PROJECT NUMBER 16251 PROJECT LOCATION Lake City, Columbia County, Florida
 DATE STARTED 9/20/23 COMPLETED 9/20/23 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Whitaker Drilling, Inc. GROUND WATER LEVELS:
 DRILLING METHOD Flight Auger ▽ AT TIME OF DRILLING 6.5 ft
 LOGGED BY WDI CHECKED BY AXL ▽ ESTIMATED SEASONAL HIGH 3.5 ft
 NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	▲ SPT N VALUE ▲
0		(SP-SM) Very loose gray and brown SAND with silt									20 40 60 80
				SPT 1	1-1-2 (3)						
		▽ (SP) Medium dense pale gray and brown SAND	3	SPT 2	4-7-11 (18)						
5				SPT 3	7-5-6 (11)						
		▽ (SM-SC) Loose to medium dense gray, brown, and orange silty SAND with clay	6	SPT 4	3-4-5 (9)						
				SPT 5	5-7-14 (21)				27	18	
		(SC) gray and brown clayey SAND	9	SPT 6	12-10-9 (19)						
10											
		(SP-SC) Medium dense gray, brown, and orange SAND with clay	13	SPT 7	4-9-12 (21)						
15											
		(CL/CH) Firm green and gray sandy CLAY	17								
				SPT 8	3-3-4 (7)						
20		Bottom of borehole at 20.0 feet.	20								

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GSE Engineering
 5590 SW 64th St
 Gainesville, FL 32608
 Telephone: 3523773233

BORING NUMBER B-5

CLIENT Concept Development, Inc. **PROJECT NAME** Dollar General - Lake City SW Marvin Burnett
PROJECT NUMBER 16251 **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 9/20/23 **COMPLETED** 9/20/23 **GROUND ELEVATION** _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Whitaker Drilling, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD Flight Auger ▽ **AT TIME OF DRILLING** 6.5 ft
LOGGED BY WDI **CHECKED BY** AXL ▽ **ESTIMATED SEASONAL HIGH** 3.5 ft
NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	▲ SPT N VALUE ▲							
											20	40	60	80				
0		(SP-SM) Very loose brown and gray SAND with silt		SPT 1	1-1-2 (3)													
3		▽ (SP) Medium dense pale brown and pale gray SAND		SPT 2	4-7-8 (15)													
5				SPT 3	10-11-13 (24)													
8				SPT 4	10-8-9 (17)													
8		(SP-SC) Medium dense to dense brown and orange SAND with clay		SPT 5	7-8-11 (19)													
10		(SP) Medium dense pale brown and gray SAND		SPT 6	17-21-24 (45)				11	17								
15				SPT 7	5-7-9 (16)													
17.5		(CL/CH) Hard pale gray sandy CLAY																
20				SPT 8	8-14-19 (33)													
20		Bottom of borehole at 20.0 feet.																

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5.3 Laboratory Results



Engineering & Consulting, Inc.

SUMMARY REPORT OF LABORATORY TEST RESULTS

























Project Number: 16251

Project Name: Dollar General - Lake City SW Marvin Burnett

Boring Number	Depth (ft)	Soil Description	Natural Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	Percent Passing No. 200 Sieve	Organic Content (%)	Hydraulic Conductivity (ft/day)	Unified Soil Classification
A-2	1-1.5	Dark brown and gray SAND with silt	8.7				11			SP-SM
A-4	3-3.5	Brown, gray, and orange very clayey SAND	18				34			SC/CL
B-1	4-5.5	Brown, gray, and orange sandy CLAY	17	35	18	17	56			CL
B-3	13.5-15	Gray sandy CLAY	23	41	15	26	62			CL
B-4	7-8.5	Gray, brown, and orange silty SAND with clay	18				27			SM-SC
B-5	8.5-10	Pale brown and gray SAND with clay	17				11			SP-SC
P-1	2-4	Gray and brown silty SAND	7.8				14		1.1	SM
P-3	0-2	Brown silty SAND	9.7				15		0.8	SM
P-5	3-5	Brown and gray clayey SAND	13				30		NF	SC

5.4 Key to Soil Classification

KEY TO SOIL CLASSIFICATION CHART

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests				SYMBOLS		GROUP NAME	
				GRAPHIC	LETTER		
COARSE-GRAINED SOILS More than 50% retained on No. 200 sieve	Gravels	Clean Gravels	$Cu \geq 4$ and $1 \leq Cc \leq 3$		GW	Well graded GRAVEL	
		Less than 5% fines	$Cu < 4$ and/or $1 > Cc > 3$		GP	Poorly graded GRAVEL	
		Gravels with fines	Fines classify as ML or MH		GM	Silty GRAVEL	
		More than 12% fines	Fines classify as CL or CH		GC	Clayey GRAVEL	
	Sands	Clean Sands	$Cu \geq 6$ and $1 \leq Cc \leq 3$		SW	Well graded SAND	
		Less than 5% fines	$Cu < 6$ and/or $1 > Cc > 3$		SP	Poorly graded SAND	
		Sand with fines	Fines classify as ML or MH		SP-SM	SAND with silt	
		5% ≤ fines < 12%	Fines classify as CL or CH		SP-SC	SAND with clay	
		Sand with fines	Fines classify as ML or MH		SM	Silty SAND	
		12% ≤ fines < 30%	Fines classify as CL or CH		SC	Clayey SAND	
		Sand with fines	Fines classify as ML or MH		SM	Very silty SAND	
		30% fines or more	Fines classify as CL or CH		SC	Very clayey SAND	
		FINE-GRAINED SOILS 50% or more passes the No. 200 sieve	Clays	inorganic	$50\% \leq \text{fines} < 70\%$		CL/CH
	$70\% \leq \text{fines} < 85\%$				CL/CH	CLAY with sand	
	$\text{fines} \geq 85\%$				CL/CH	CLAY	
Silts and Clays	inorganic		$PI > 7$ and plots on/above "A" line		CL	Lean CLAY	
	organic		$PI < 4$ or plots below "A" line		ML	SILT	
Liquid Limit less than 50	inorganic		Liquid Limit - oven dried	< 0.75		OL	Organic clay
			Liquid Limit - not dried			OL	Organic silt
	Silts and Clays		inorganic	PI plots on or above "A" line		CH	Fat CLAY
			organic	PI plots below "A" line		MH	Elastic SILT
Liquid Limit 50 or more	organic		Liquid Limit - oven dried	< 0.75		OH	Organic clay
		Liquid Limit - not dried			OH	Organic silt	
HIGHLY ORGANIC SOILS		Primarily organic matter, dark in color, and organic odor			PT	PEAT	

CORRELATION OF PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY

No. OF BLOWS, N	RELATIVE DENSITY	No. OF BLOWS, N	CONSISTENCY
0 - 4	Very Loose	0 - 2	Very Soft
5 - 10	Loose	3 - 4	Soft
SANDS: 11 - 30	Medium dense	CLAYS: 5 - 8	Firm
	Dense		Stiff
31 - 50	Dense	16 - 30	Very Stiff
OVER 50	Very Dense	31 - 50	Hard
		OVER 50	Very Hard

No. OF BLOWS, N	RELATIVE DENSITY
0 - 8	Very Soft
9 - 18	Soft
LIMESTONE: 19 - 32	Moderately Hard
33 - 50	Hard
OVER 50	Very Hard

SAMPLE GRAPHIC TYPE LEGEND



Location of SPT Sample



Location of Auger Sample

PARTICLE SIZE IDENTIFICATION

BOULDERS:	Greater than 300 mm
COBBLES:	75 mm to 300 mm
GRAVEL:	Coarse - 19.0 mm to 75 mm
	Fine - 4.75 mm to 19.0 mm
SANDS:	Coarse - 2.00 mm to 4.75 mm
	Medium - 0.425 mm to 2.00 mm
	Fine - 0.075 mm to 0.425 mm
SILTS & CLAYS:	Less than 0.075 mm

LABORATORY TEST LEGEND

LL =	Liquid Limit, %
PL =	Plastic Limit, %
PI =	Plasticity Index, %
% PASS - 200 =	Percent Passing the No. 200 Sieve
MC =	Moisture Content, %
ORG =	Organic Content, %
k_h =	Horizontal Hydraulic Conductivity, ft/day

6.0 LIMITATIONS

6.1 Warranty

This report has been prepared for our client for their exclusive use, in accordance with generally accepted soil and foundation engineering practices, and makes no other warranty either expressed or implied as to the professional advice provided in the report.

6.2 Auger and SPT Borings

The determination of soil type and conditions was performed from the ground surface to the maximum depth of the borings, only. Any changes in subsurface conditions that occur between or below the borings would not have been detected or reflected in this report.

Soil classifications that were made in the field are based upon identifiable textural changes, color changes, changes in composition or changes in resistance to penetration in the intervals from which the samples were collected. Abrupt changes in soil type, as reflected in boring logs and/or cross sections may not actually occur, but instead, be transitional.

Depth to the water table is based upon observations made during the performance of the auger and SPT borings. This depth is an estimate and does not reflect the annual variations that would be expected in this area due to fluctuations in rainfall and rates of evapotranspiration.

6.3 Site Figures

The measurements used for the preparation of the figures in this report were made using the provided site plan and by estimating distances from existing structures and site features. Figures in this report were not prepared by a licensed land surveyor and should not be interpreted as such.

6.4 Unanticipated Soil Conditions

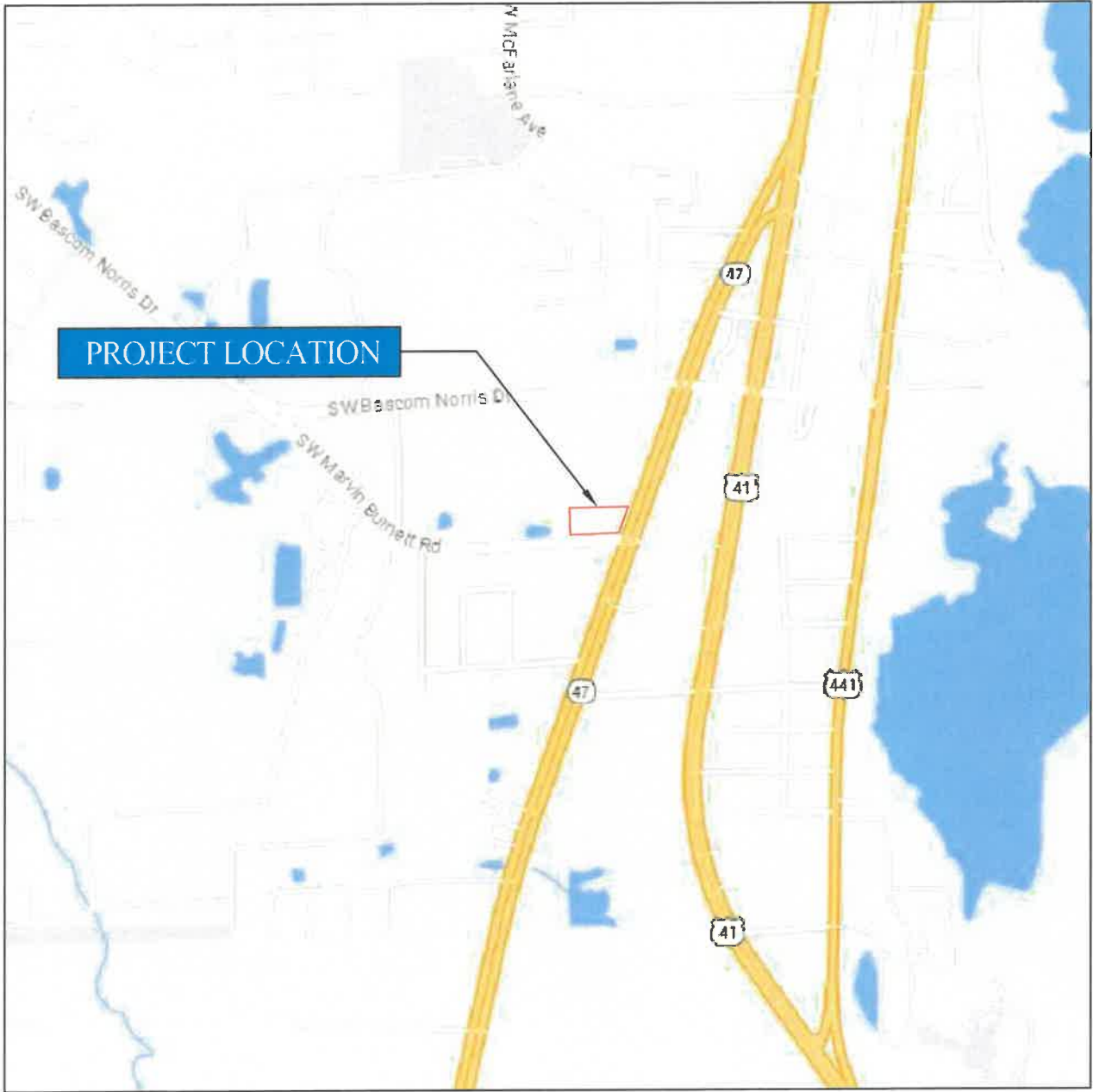
The analysis and recommendations submitted in this report are based upon the data obtained from soil borings performed at the locations indicated on Figure 2. This report does not reflect any variations that may occur between these borings.

The nature and extent of variations between borings may not become known until excavation begins. If variations appear, we may have to re-evaluate our recommendations after performing on-site observations and noting the characteristics of any variations.


6.5 Misinterpretation of Soil Engineering Report

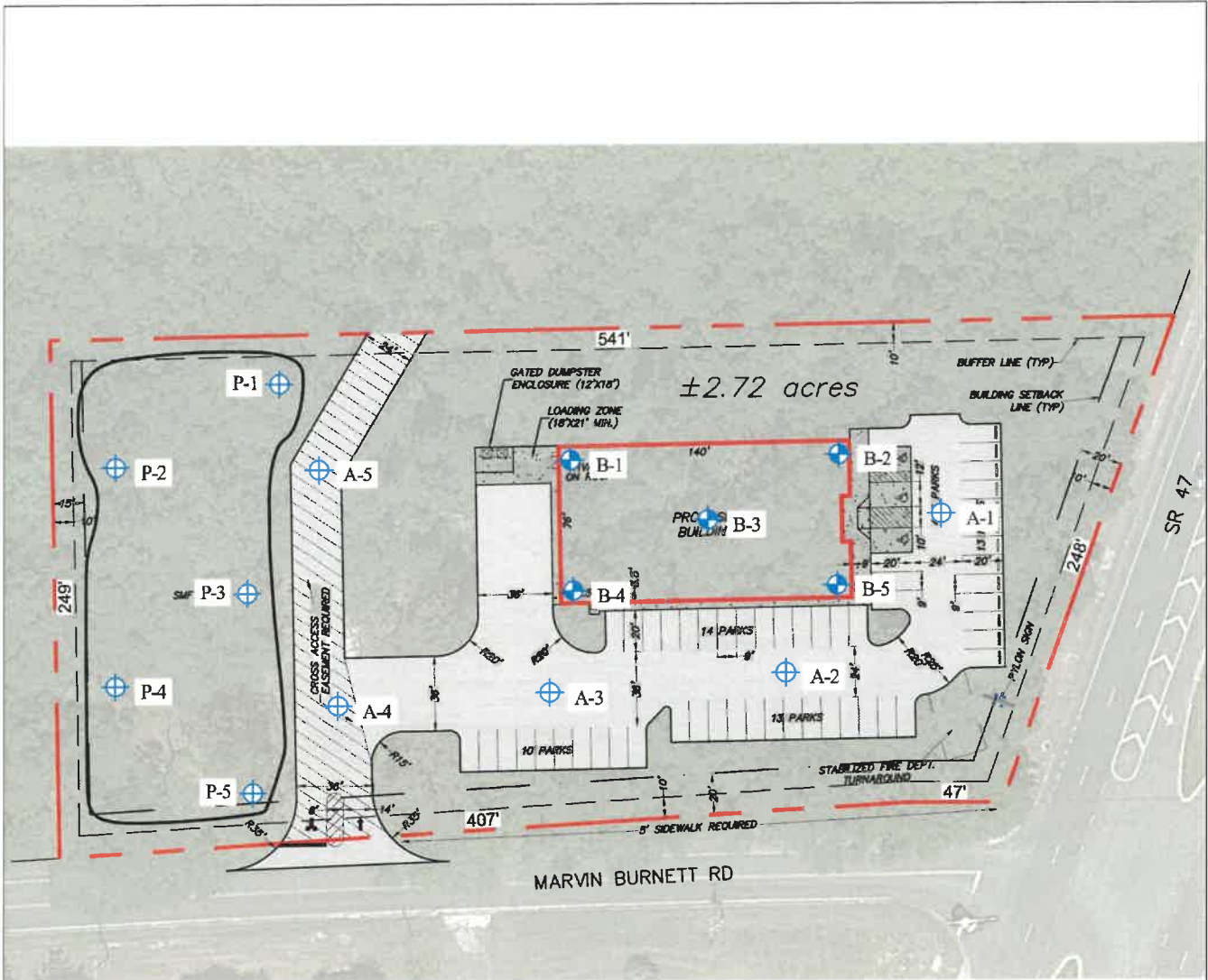
GSE Engineering & Consulting, Inc. is responsible for the conclusions and opinions contained within this report based upon the data relating only to the specific project and location discussed herein. If others make the conclusions or recommendations based upon the data presented, those conclusions or recommendations are not the responsibility of GSE.

FIGURES





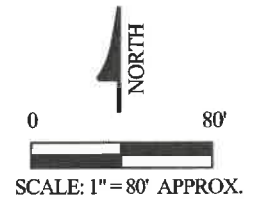

 NORTH
 NOT TO SCALE

DOLLAR GENERAL - LAKE CITY SW MARVIN BURNETT LAKE CITY, COLUMBIA COUNTY, FLORIDA GSE PROJECT NO. 16251	PROJECT SITE LOCATION MAP		
	DESIGNED BY : AXL CHECKED BY : JEG DRAWN BY : EEW		FIGURE 1



LEGEND:

-  SPT BORING
-  AUGER BORING



DOLLAR GENERAL - LAKE CITY
 SW MARVIN BURNETT
 LAKE CITY, COLUMBIA COUNTY, FLORIDA
 GSE PROJECT NO. 15396

**SITE PLAN SHOWING APPROXIMATE LOCATIONS OF
 FIELD TESTS**

DESIGNED BY: AXL
 CHECKED BY: JEG
 DRAWN BY: AXL



FIGURE
 2

DATE: OCTOBER 25, 2023
PROJECT NAME: DG LAKE CITY ALTA
PROJECT NO: 23-0653
DESCRIPTION FOR: PARCEL A

A TRACT OF LAND BEING A PORTION OF LANDS AS DESCRIBED IN OFFICIAL RECORDS BOOK 1330 PAGE 1324 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, SITUATED IN THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 7, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF AFOREMENTIONED NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 7, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA; THENCE NORTH 02°08'35" WEST, ALONG WEST LINE OF SAID NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER, A DISTANCE OF 50.00 FEET TO THE NORTHERLY RIGHT OF WAY LINE OF S.W. MARVIN BURNETT ROAD (RIGHT OF WAY WIDTH VARIES); THENCE DEPARTING SAID WEST LINE, NORTH 85°44'05" EAST, ALONG SAID NORTHERLY RIGHT OF WAY LINE, A DISTANCE OF 130.73 FEET TO THE **POINT OF BEGINNING**; THENCE NORTH 02°10'29" WEST, A DISTANCE OF 249.00 FEET; THENCE NORTH 88°10'08" EAST, A DISTANCE OF 541.00 FEET TO THE WESTERLY RIGHT OF WAY LINE OF S.W. STATE ROAD NO. 47 (RIGHT OF WAY WIDTH VARIES); THENCE SOUTH 18°32'28" WEST, ALONG SAID WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 248.00 FEET; THENCE, CONTINUE ALONG SAID WESTERLY RIGHT OF WAY LINE, SOUTH 89°06'47" WEST, A DISTANCE OF 46.52 FEET TO THE INTERSECTION OF SAID WESTERLY RIGHT OF WAY LINE AND AFOREMENTIONED NORTHERLY RIGHT OF WAY LINE OF S.W. MARVIN BURNETT ROAD; THENCE SOUTH 85°44'05" WEST, ALONG SAID NORTHERLY RIGHT OF WAY LINE A DISTANCE OF 407.00 FEET TO THE **POINT OF BEGINNING**.

SAID TRACT OF LAND CONTAINING 2.70 ACRES, MORE OR LESS.

PROPERTY OWNER AFFIDAVIT

Property Owner Name:
St. Johns Limited Liability Company

Owner Mailing Address:
13820 W. Newberry Road, Suite 100
Newberry, FL 32669

Owner phone:

Owner email:

Property County: Columbia

Parcel ID #: 07-4S-17-08127-005

Agent:

Concept Development, Inc. and Concept Construction of North Florida, Inc.
1449 SW 74th Drive, Suite 200
Gainesville, FL 32607
(352) 333-3233

Authorized Actions of Agent:

Design and submission of documentation, forms and plans and application for all permits as required from those regulatory agencies having jurisdiction over the Property (e.g. County, City, Water Management District, FDOT, FDEP, etc.) and on-site access for inspections, testing, data collection, etc.

I hereby certify that I am the owner of record. I hereby authorize the above listed agents to act on my behalf for the purposes of any and all applications and securing the above requested actions.

St. Johns Limited Liability Company,
a Florida limited liability company

By: _____

William B. Martin

Its: Manager

STATE OF FLORIDA

COUNTY OF Alachua

The foregoing instrument was acknowledged before me this 30th day of June, 2023, by William. B. Martin, as Manager of St. Johns Limited Liability Company, a Florida limited liability company, on behalf of said company who is personally known to me or has produced _____ as identification.



JAMES D. SALTER
Commission # HH 253673
Expires May 30, 2026

Notary Public, State of Florida at Large

This instrument prepared by
and after recording return to:

John C. Bovay, Attorney at Law
901 N.W. 57th Street
Gainesville, Florida 32605

Inst:2005003121 Date:02/09/2005 Time:15:12
Doc Stamp-Deed : 0.70

Ynk DC, P. DeWitt Cason, Columbia County B:1037 P:1953

██████████
07-4S-██████████
Property Appraiser's Parcel
Identification Number(s)

WARRANTY DEED

The Grantor, William B. Martin, as Trustee of the William B. Martin Trust, dated July 31, 1990, in consideration of Ten and grants and conveys to the Grantee, St. Johns, LLC (a Florida limited liability company), whose mailing address is 2841 NW 41st Street, Gainesville, Florida 32606, the real property in Columbia County, Florida, described as follows:

The South ½ of the Northeast ¼ of the Northeast ¼ of Section 7, Township 4 South, Range 17 East as lies West of S.R. No. 47; LESS AND EXCEPT: Begin at the Southwest Corner of the Northeast ¼ of the Northeast ¼ of said Section 7, and run North along West Line of said Northeast ¼ of the Northeast ¼ 211 feet; thence run East 337 feet; thence run South 211 feet; thence run West 337 feet to the Point of Beginning.

The Grantor warrants that the property is free of all encumbrances, except the lien for real estate taxes not yet due and payable and restrictions, reservations, and easements of record, and that lawful seisin of and good right to convey the property are vested in the Grantor. The Grantor hereby fully warrants the title to the property and will defend the same against the lawful claims of all persons.

This deed was prepared without examination of title or legal opinion, but upon information, including the legal description and the ownership interest, supplied by the Grantor.

The interest conveyed is not the homestead of the Grantor.

Inst: 2005003121 Date: 02/09/2005 Time: 15:12
Doc Stamp-Deed : 0.70
DC, P. DeWitt Cason, Columbia County B: 1037 P: 1954

Signed on February 4, 2005.

Signed in the presence of:

Joseph J. Sadusky
Print Name: Joseph J. Sadusky

William B. Martin
William B. Martin, as Trustee of the
William B. Martin Trust, dated July 31, 1990
2841 NW 41st Street
Gainesville, Florida 32606

Julia Cook
Print Name: Julia Cook

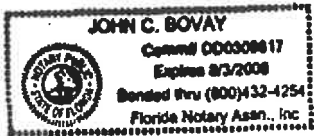
Two witnesses as to
William B. Martin, as Trustee of the
William B. Martin Trust, dated July 31, 1990

STATE OF FLORIDA
COUNTY OF ALACHUA

The foregoing instrument was acknowledged before me on February 4, 2005,
by William B. Martin.

Personally Known ✓
Produced Identification _____
Type of Identification _____

John C. Bovay
Notary Public--State of Florida
Print Notary Name: _____
My Commission Number is: _____
My Commission Expires: _____





GROWTH MANAGEMENT DEPARTMENT
 205 North Marion Ave, Lake City, FL 32055
 Phone: 386-719-5750
 E-mail: growthmanagement@lcfla.com

AGENT AUTHORIZATION FORM

I, Matthew Cason (owner name), owner of property parcel

number 07-4S-17-08127-005 (parcel number), do certify that

the below referenced person(s) listed on this form is/are contracted/hired by me, the owner, or is an officer of the corporation; or, partner as defined in Florida Statutes Chapter 468, and the said person(s) is/are authorized to sign, speak and represent me as the owner in all matters relating to this parcel.

Printed Name of Person Authorized	Signature of Authorized Person
1. Randall Olney (CHW)	1.
2.	2.
3.	3.
4.	4.
5.	5.

I, the owner, realize that I am responsible for all agreements my duly authorized agent agrees with, and I am fully responsible for compliance with all Florida Statutes, City Codes, and Land Development Regulations pertaining to this parcel.

If at any time the person(s) you have authorized is/are no longer agents, employee(s), or officer(s), you must notify this department in writing of the changes and submit a new letter of authorization form, which will supersede all previous lists. Failure to do so may allow unauthorized persons to use your name and/or license number to obtain permits.

Owner Signature (Notarized) 12-15-2023 Date

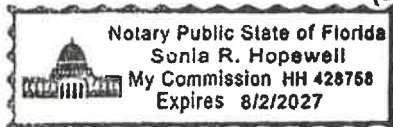
NOTARY INFORMATION:

STATE OF: Florida COUNTY OF: Alachua

The above person, whose name is Matt Cason, personally appeared before me and (is known by me) or has produced identification (type of I.D.) _____ on this 15 day of December, 2023.

NOTARY'S SIGNATURE

(Seal/Stamp)





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Detail by Entity Name

Florida Limited Liability Company
ST. JOHNS LIMITED LIABILITY COMPANY

Filing Information

Document Number L05000000431
FEI/EIN Number 20-3739691
Date Filed 12/23/2004
Effective Date 01/01/2005
State FL
Status ACTIVE

Principal Address

13820 W Newberry Rd
Suite 100
GAINESVILLE, FL 32669

Changed: 01/14/2018

Mailing Address

13820 W Newberry Rd
Suite 100
GAINESVILLE, FL 32669

Changed: 01/14/2018

Registered Agent Name & Address

Martin, William B
13820 W Newberry Road
Suite 100
Newberry, FL 32669

Name Changed: 03/10/2019

Address Changed: 03/10/2019

Authorized Person(s) Detail

Name & Address

Title MGR

Banks, Judith
13820 W Newberry Road
Suite 100
Newberry, FL 32669

Title MGR

Martin, William B
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Annual Reports

Report Year	Filed Date
2022	02/23/2022
2023	02/08/2023
2024	02/12/2024

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06/21/2006 -- ANNUAL REPORT	View image in PDF format
12/23/2004 -- Florida Limited Liabilites	View image in PDF format



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Detail by Entity Name

Florida Profit Corporation
CONCEPT COMPANIES, INC.

Filing Information

Document Number	P14000067003
FEI/EIN Number	47-1672849
Date Filed	08/07/2014
Effective Date	07/08/2009
State	FL
Status	ACTIVE
Last Event	CONVERSION
Event Date Filed	08/07/2014
Event Effective Date	NONE

Principal Address

1449 SW 74th Drive
Suite 200
Gainesville, FL 32607

Changed: 04/18/2022

Mailing Address

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Suite 200
Gainesville, FL 32607

Changed: 04/18/2022

Registered Agent Name & Address

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Gainesville, FL 32607

Name Changed: 04/18/2022

Address Changed: 04/18/2022

Officer/Director Detail

Name & Address

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Crawford, Brian S
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Suite 200
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Title President

Cason, Matthew
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Title CEO

Banks, Nick
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Suite 200
Gainesville, FL 32607

Annual Reports

Report Year	Filed Date
2022	04/18/2022
2023	03/03/2023
2024	03/11/2024

Document Images

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06/09/2020 -- ANNUAL REPORT	View image in PDF format
02/13/2019 -- ANNUAL REPORT	View image in PDF format
04/26/2018 -- ANNUAL REPORT	View image in PDF format
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04/15/2016 -- ANNUAL REPORT	View image in PDF format
04/22/2015 -- ANNUAL REPORT	View image in PDF format
08/07/2014 -- Domestic Profit	View image in PDF format

Tax Record

Last Update: 3/20/2024 3:02:58 PM EDT

Register for eBill

Ad Valorem Taxes and Non-Ad Valorem Assessments

The information contained herein does not constitute a title search and should not be relied on as such.

Account Number	Tax Type	Tax Year			
R08127-005	REAL ESTATE	2023			
Mailing Address		Property Address			
ST JOHNS LLC 13820 W NEWBERRY RD STE 100 NEWBERRY FL 32669		GEO Number 074S17-08127-005			
Exempt Amount	Taxable Value				
See Below	See Below				
Exemption Detail	Millage Code	Escrow Code			
NO EXEMPTIONS	001				
Legal Description (click for full description)					
07-4S-17 0000/00009.69 Acres S1/2 OF NE1/4 OF NE1/4 W OF SR-47. 482-143, LE 1318-991, DC 1327- 1297, DC 1327-1298, WD 1330- 1324, 372-81, 804-766, 894- 679, 912-1064, 1037-1953					
Ad Valorem Taxes					
Taxing Authority	Rate	Assessed Value	Exemption Amount	Taxable Value	Taxes Levied
CITY OF LAKE CITY	4.9000	266,978	0	\$266,978	\$1,308.19
BOARD OF COUNTY COMMISSIONERS	7.8150	266,978	0	\$266,978	\$2,086.43
COLUMBIA COUNTY SCHOOL BOARD DISCRETIONARY	0.7480	266,978	0	\$266,978	\$199.70
LOCAL	3.2170	266,978	0	\$266,978	\$858.87
CAPITAL OUTLAY	1.5000	266,978	0	\$266,978	\$400.47
SUWANNEE RIVER WATER MGT DIST	0.3113	266,978	0	\$266,978	\$83.11
LAKE SHORE HOSPITAL AUTHORITY	0.0001	266,978	0	\$266,978	\$0.03
Total Millage		18.4914	Total Taxes		\$4,936.80
Non-Ad Valorem Assessments					
Code	Levying Authority				Amount
XLCF	CITY FIRE ASSESSMENT				\$61.26
Total Assessments					\$61.26
Taxes & Assessments					\$4,998.06
If Paid By				Amount Due	
				\$0.00	

Date Paid	Transaction	Receipt	Item	Amount Paid
11/27/2023	PAYMENT	9921508.0001	2023	\$4,798.14

Prior Years Payment History

Prior Year Taxes Due

NO DELINQUENT TAXES

TRAFFIC IMPACT STUDY

Variety Retail Store Marvin Burnett Road Lake City, Florida

October 3, 2023

prepared for:
FLORIDA DOT DISTRICT 2
and
THE CITY OF LAKE CITY

submitted on behalf of:
Concept Development, Inc.

prepared by:
The logo for HAGEN CONSULTING SERVICES, LLC features a stylized blue cross symbol to the left of the word "HAGEN" in a bold, blue, sans-serif font. Below "HAGEN" are the words "CONSULTING" and "SERVICES, LLC" in a smaller, blue, sans-serif font, stacked vertically.

PROFESSIONAL ENGINEER ENDORSEMENT

I hereby certify that I am a Registered Professional Engineer in the State of Florida and currently practicing as the principal of Hagen Consulting Services, LLC.

Hagen Consulting Services, LLC is authorized via Registry No: 27955 to operate as an Engineering Business by the Florida Board of Professional Engineers, State of Florida, Department of Professional Regulation.

I have prepared or supervised the preparation of the evaluation, findings, conclusions, recommendations, and professional opinions/advice contained in this document. My endorsement constitutes my approval of these items.

PROJECT: Marvin Burnett Road Retail Store
LOCATION: Lake City, Florida
CLIENT: Concept Development, Inc.

The results contained in this report were developed using procedures and references standard to the transportation engineering practice. These references and procedures were applied using professional judgment and experience.

Name: Lawrence T. Hagen, P.E., PTOE, RSP
Florida P.E. No.: 43968



Lawrence T
Hagen

Digitally signed by
Lawrence T Hagen
Date: 2023.10.03
08:20:11 -04'00'

This item has been digitally signed and sealed by
Lawrence T. Hagen on the date adjacent to the seal.

Printed copies of this document are not considered
signed and sealed and the signature must be verified
on any electronic copies.

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EXECUTIVE SUMMARY

The results of the traffic impact analysis for the proposed variety retail store location at the intersection of State Road 47 and SW Marvin Burnett Road near the City of Lake City show that the traffic generated by the development will not have a significant impact on the operation of the roadway network surrounding it. The existing STOP-Controlled intersection adjacent to the project site will continue to operate well with the addition of the projected traffic from the development. Additionally, the nearby intersection of SW Bascom Norris Drive and SW Marvin Burnett Road will also continue to operate well.

The project location is within Columbia County south of the City of Lake City, Florida and State Road 47 is under the jurisdiction of the Florida DOT, District 2. This study utilized turning movement count data for the AM and PM Peak Hours collected by Hagen Consulting Services in July of 2023. The turning movement count information for the AM and PM Peak Hours of traffic were adjusted using a seasonal adjustment factor from FDOT's Peak Season Factor Category Report and a growth factor was applied to adjust traffic volumes to the build-out year (2024). The adjusted traffic volumes were then analyzed with and without the project traffic utilizing the Highway Capacity Manual (HCM) procedures.

The project traffic was developed using the Institute of Transportation Engineers (ITE) *Trip Generation* – 11th Edition. The ITE Land Use Code for a variety retail store was used to estimate the trips generated by the proposed 12,480 square foot building. The trips were then distributed on the transportation network to estimate the traffic impacts.

The HCM analysis showed that the intersections, and hence the roadway network adjacent to the site, will be able to accommodate the traffic from the proposed development without a significant degradation in operational performance. Traffic conditions in the area will continue to operate at a very good level that meets the needs of the traveling public.

INTRODUCTION

Hagen Consulting Services, LLC is assisting Concept Development, Inc. with the transportation impacts for the proposed new 10,640 square foot variety retail store in Columbia County, Florida. The site will serve the southern Lake City area. The proposed retail store site is located on SW Marvin Burnett Road, at the intersection with State Road 47. State Road 47 is under the jurisdiction of the Florida Department of Transportation, District Two. The proposed site will have a connection to SW Marvin Burnett Road. The site currently is undeveloped and heavily wooded. There is a single family home foundation and accessory shed and propane tank on the site. The project location is shown in **Figure 1** below.

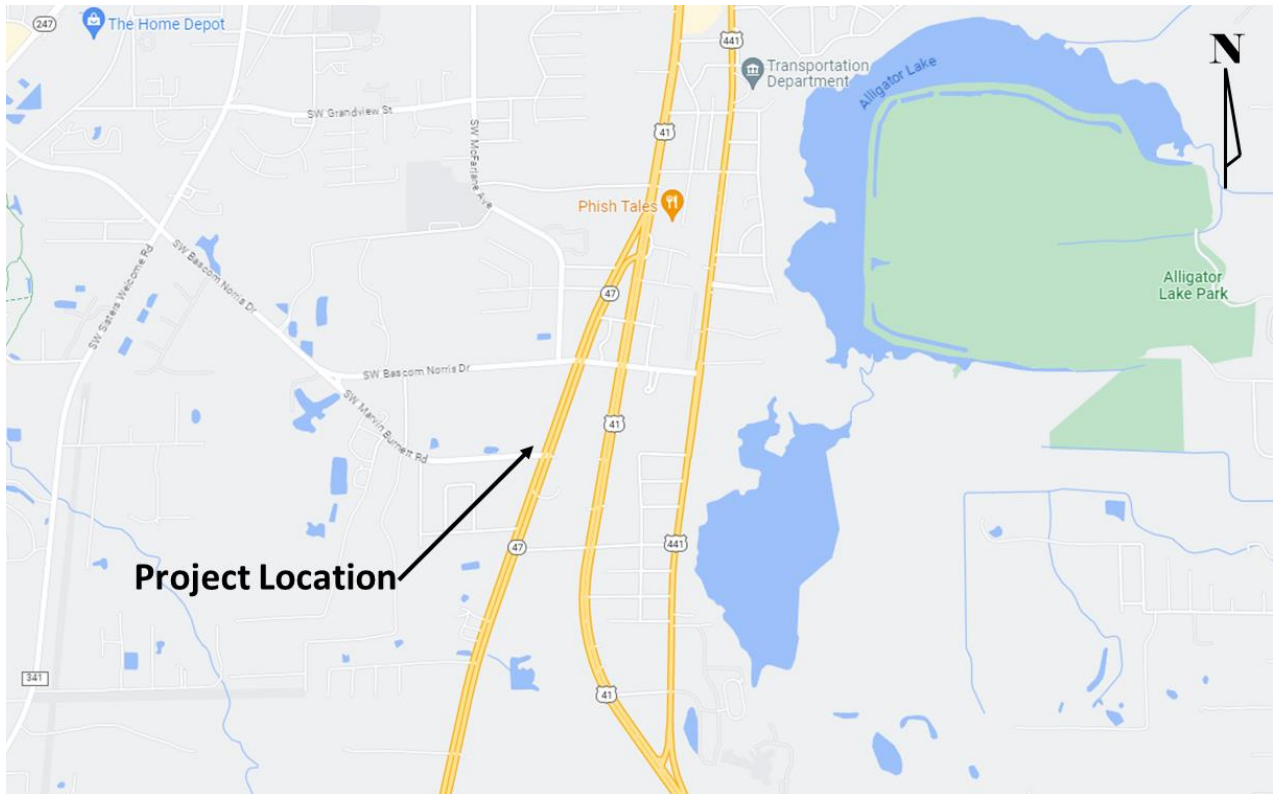


Figure 1 - Project Location Map

The preliminary site plan for the proposed retail store is shown in **Figure 2** on the following page.

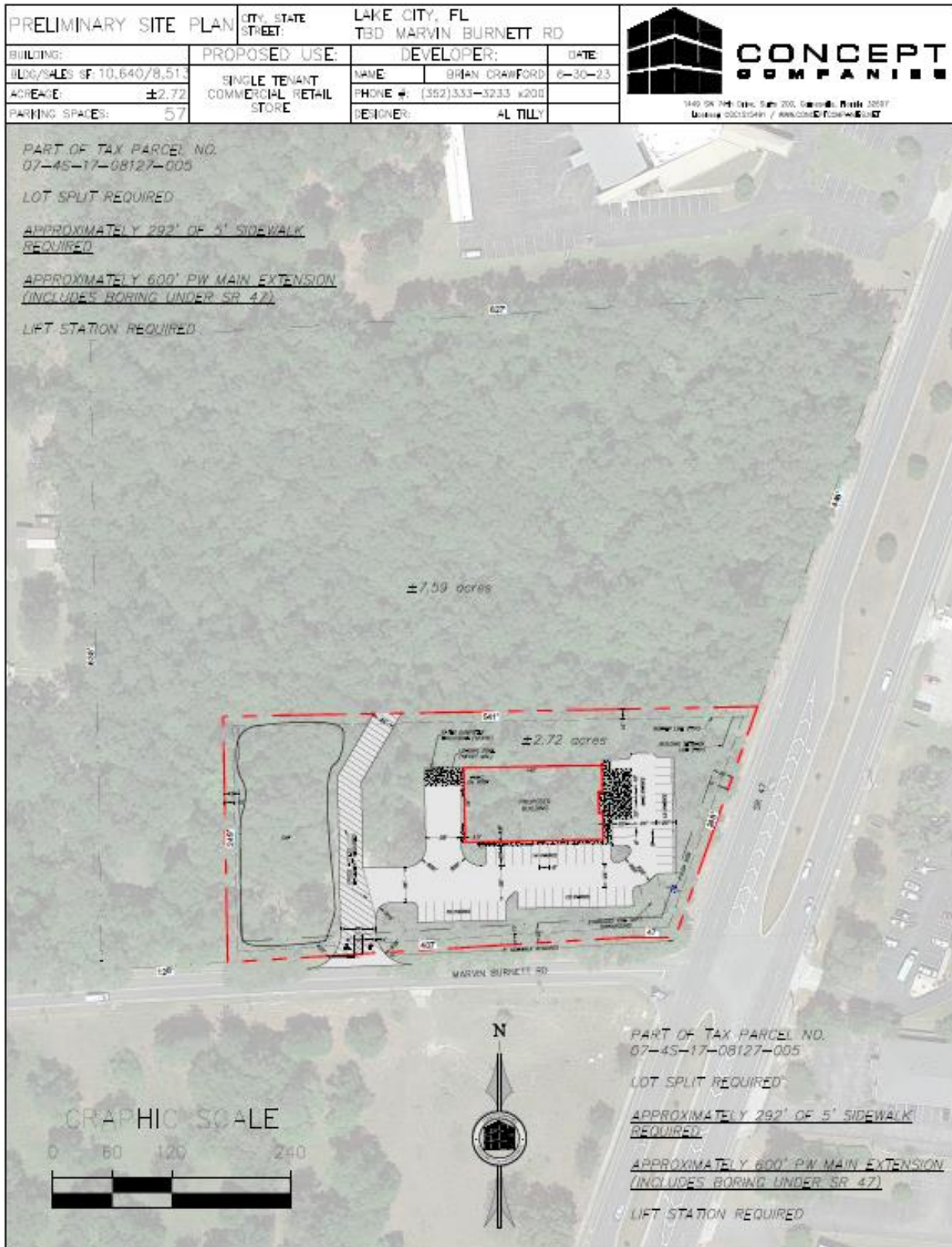


Figure 2 - Preliminary Site Plan

The 11th Edition of the Institute of Transportation Engineers (ITE) *Trip Generation* is the recognized authoritative source for estimating the trips generated by developments such as the proposed variety retail store facility. According to *Trip Generation*, a variety retail facility such as proposed here falls under ITE Land Use Code 814 – Variety Store. The assessment of the traffic impacts of the proposed variety retail store will be based on the impacts to traffic in the AM and PM peak hour periods.

The traffic impacts of the proposed development will be based on a Highway Capacity Software analysis of the operation of the signalized intersection adjoining the site both with and without the traffic generated by the development. A comparison of the delay and Level Of Service (LOS) with and without the project traffic will serve as the basis of the analysis.

EXISTING CONDITIONS

State Road 47 is a four-lane divided highway with an urban typical section (curb and gutter). The posted speed limit in the vicinity of the project site is 45 miles per hour. There are existing bike lanes and sidewalks on both sides of the roadway. State Road 47 is classified as an Urban Minor Arterial. There are existing NB and SB left turn lanes at the Marvin Burnett Road intersection. Marvin Burnett Road is a two-lane roadway that is functionally classified as a minor collector rural with a posted speed of 35 miles per hour. The cross-section features a flush shoulder on the north side of the road and the south side has raised curb. There are currently no bike lanes or sidewalks present.

Existing AM and PM Peak Hour turning movement counts were collected at the intersection of State Road 47 and Marvin Burnett Road. Two hours of AM Peak data (7:00 AM – 9:00 AM) and two hours of PM Peak data (4:00 PM – 6:00 PM) were collected. From these counts, the AM Peak Hour (7:30 – 8:30 AM) and PM Peak Hour (4:30 – 5:30 PM) turning movement counts were determined. The AM and PM Peak Hour turning movement counts are shown in **Figure 3** below.

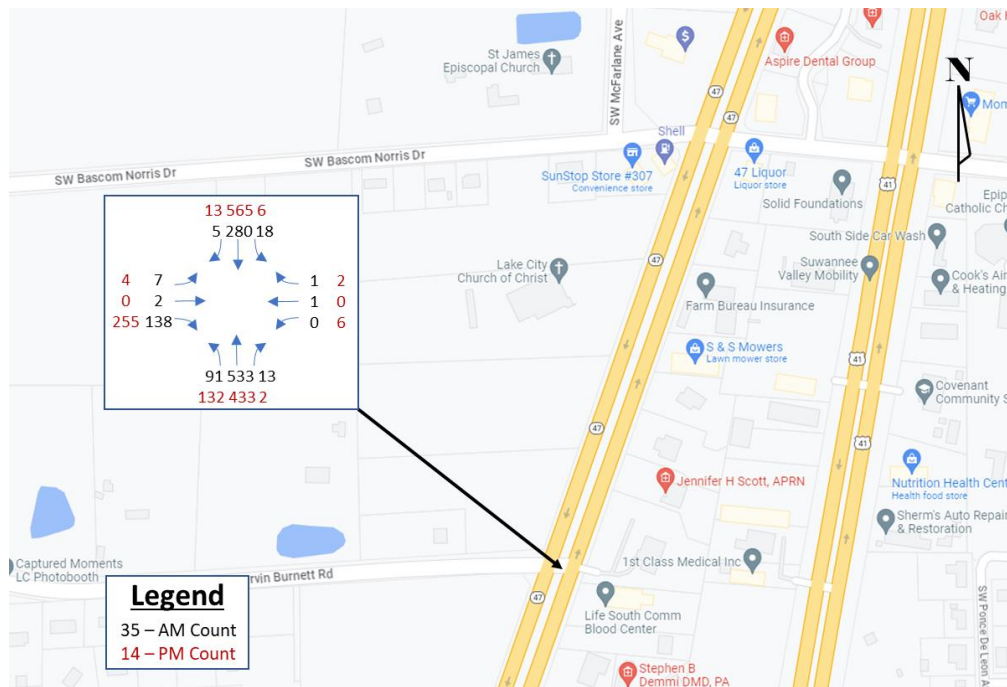


Figure 3 - Existing AM and PM Peak Hour Turning Movement Counts

The raw turning movement count data for the AM and PM Peak Hour is included in Appendix A.

TRIP GENERATION

The Institute of Transportation Engineers (ITE) *Trip Generation* 11th Edition was used to calculate the project trip estimates for the new land use at the project site. Trip generations estimates are shown in terms of daily traffic, as well as the AM and PM peak hours. The proposed Variety Retail Store falls under ITE Land Use Code 814 – Variety Store. The trip generation information for the proposed Variety Retail Store is shown in Table 1 below.

TABLE 1: Trip Generation
Variety Retail Store – ITE Land Use 814 – 10,640 SF
 Lake City, Florida

Period	ITE Rate	Units	Trips	Distribution		Trips		
				% In	% Out	In	Out	Net
Weekday	T = 63.66 (X)	10.64	677	50%	50%	339	338	677
AM Peak	T = 3.04 (X)	10.64	32	55%	45%	18	14	32
PM Peak	T = 6.70 (X)	10.64	71	51%	49%	36	35	71

Source: ITE 11th Edition of Trip Generation - Units: 1,000 square feet Gross Floor Area

The 2021 Pass-By Tables for ITE’s *Trip Generation* indicate a 34% pass-by rate for Land Use 814. This means that 34% of the trips generated are existing pass-by trips, and the net new trips represent 66% of the estimated *Trip Generation* number.

TABLE 2: Net Trip Generation with Pass-By Reduction

Period	Trips	Pass-By	Net Trips	Distribution		Net Trips		
				% In	% Out	In	Out	Net
Weekday	677	34%	447	50%	50%	224	224	447
AM Peak	32	34%	21	55%	45%	12	10	21
PM Peak	71	34%	47	51%	49%	24	23	47

The trip generation data is then used to develop the external distribution of project trips onto the adjacent roadway network from the project site. The next section of the report presents information on the trip distribution.

TRIP DISTRIBUTION

The distribution of project trips on the roadway network is a manual assignment derived from the AM and PM peak period traffic data collected on the adjacent roadway and a review of existing locations of interacting land-uses. The distribution is based on engineering judgment of the expected routes that patrons would take to / from the proposed development. The project has access just on SW Marvin Burnett Road. The AM and PM Peak Hour Project Trip Distribution is shown in **Figure 4** below.

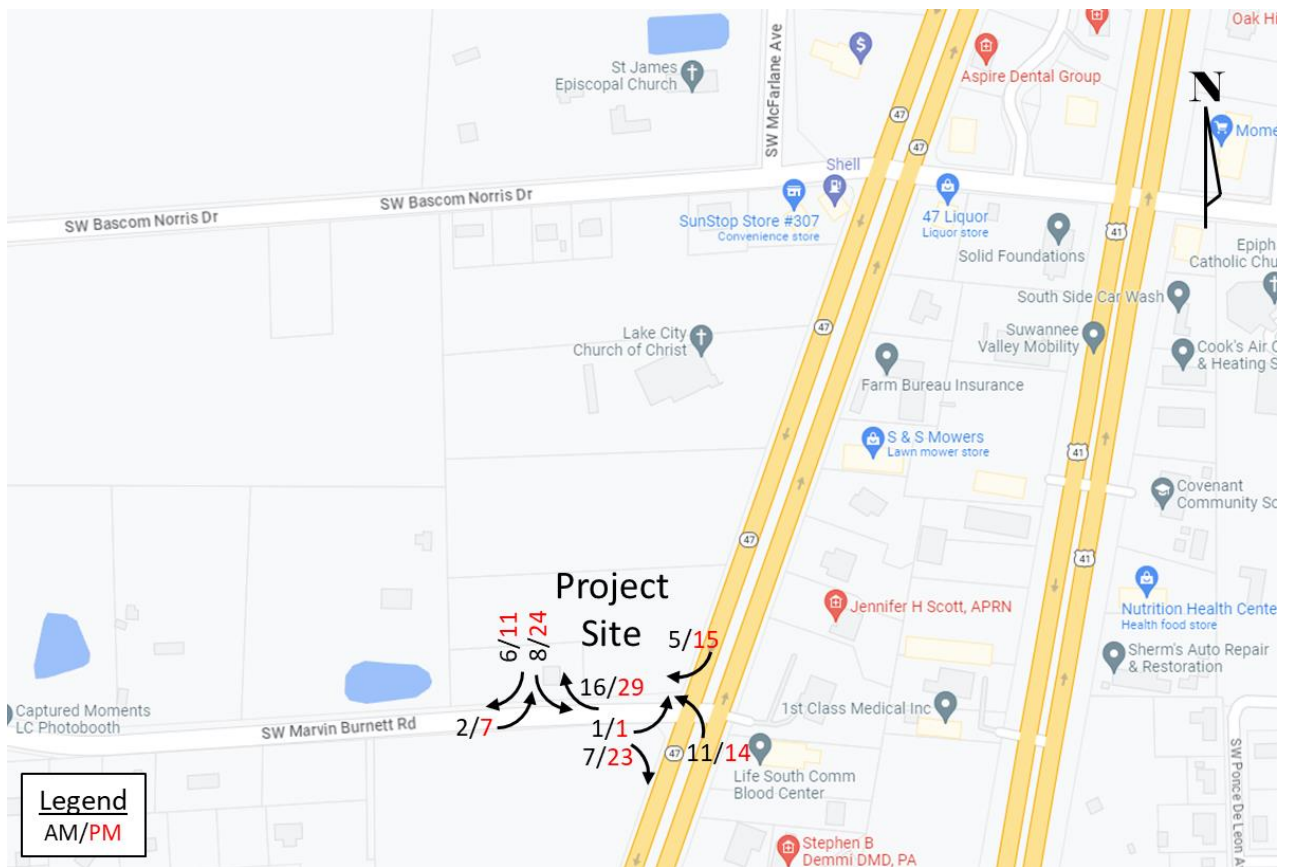


Figure 4 - Peak Hour Project Trip Distribution

LEFT TURN LANE ANALYSIS – Marvin Burnett Road

The criteria for evaluating left turn lanes are established in *NCHRP Report 457: Evaluating Intersection Improvements: An Engineering Study Guide*. The highest left turning volume into the project site from Marvin Burnett Road is the PM Peak Hour left turn volume of 7 vehicles. The left + through + right turn volumes are added together to compute the “advancing volume.” The through + right turning volumes opposing the left turn are used as the “opposing volume.”

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

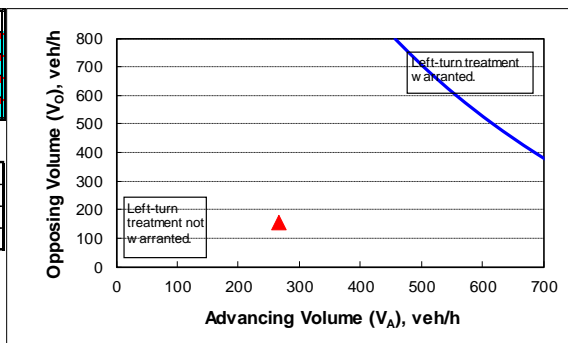
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	35
Percent of left-turns in advancing volume (V_A), %:	3%
Advancing volume (V_A), veh/h:	266
Opposing volume (V_O), veh/h:	156

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	898
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

RIGHT TURN LANE ANALYSIS – Marvin Barnett Road

Similarly, the criteria for evaluating right turn lanes are established in *NCHRP Report 457: Evaluating Intersection Improvements: An Engineering Study Guide*. For this analysis, we need to enter the major road speed, the major road volume (through + right), and the right turn volume.

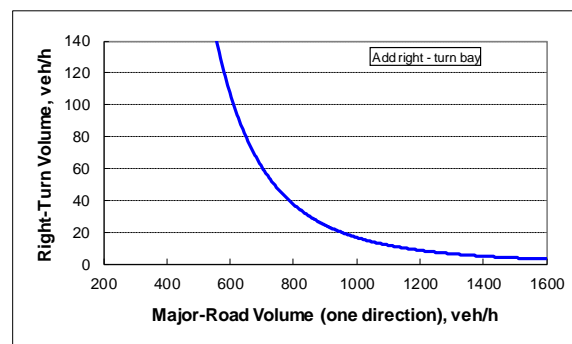
Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

Roadway geometry:	2-lane roadway
Variable	Value
Major-road speed, mph:	35
Major-road volume (one direction), veh/h:	156
Right-turn volume, veh/h:	29

OUTPUT

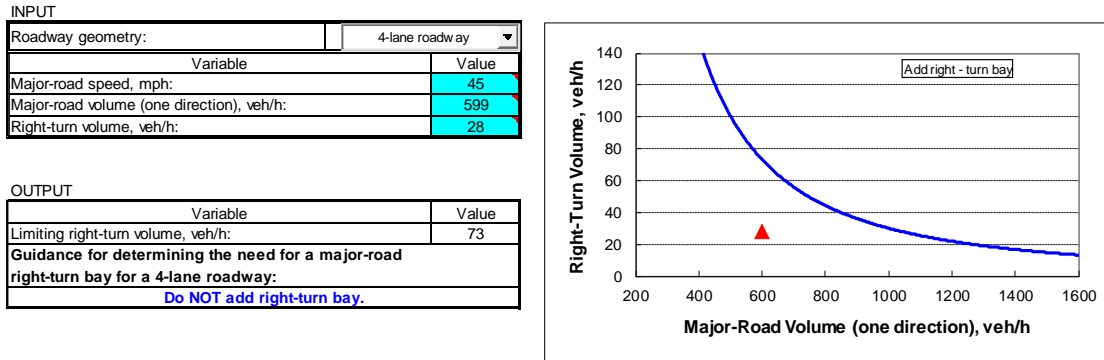
Variable	Value
Limiting right-turn volume, veh/h:	14198
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	



RIGHT TURN LANE ANALYSIS – State Road 47

As indicated previously, the criteria for evaluating right turn lanes are established in *NCHRP Report 457: Evaluating Intersection Improvements: An Engineering Study Guide*. For this analysis, we need to enter the major road speed, the major road volume (left + through + right), and the right turn volume.

Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.



INTERSECTION LEVEL OF SERVICE (LOS) ANALYSIS

The roadway Level Of Service (LOS) analysis is conducted using the procedures outlined in the Transportation Research Board’s *Highway Capacity Manual* (HCM). The HCM procedures represent the state-of-the-practice for the analysis of transportation facilities.

Existing turning movement count data was collected on Tuesday, July 18, 2023 at the intersection of State Road 47 and SW Marvin Burnett Road. Two hours of turning movement count data were collected for both the AM peak period (7 AM to 9 AM) and the PM peak period (4 PM to 6 PM). Out of that two-hours of data collection in each period, the overall AM peak hour of 7:30 AM to 8:30 AM and the overall PM peak hour of 4:30 PM to 5:30 PM were used in the analysis. A seasonal adjustment of 1.02 is then applied based on FDOT Peak Season Factor Category Report for Columbia County (included in Appendix A). A growth factor of 3% is then added to the volumes to convert to 2024 (expected build-out year) volumes. The AM peak hour volumes along with the assigned new project trips are provided in **Table 3** below. The PM peak hour volumes along with the assigned new project trips are provided in **Table 4** below.

Table 3 – AM Peak Hour Volumes

Roadway	State Road 47						SW Marvin Burnett Road					
Approach	Northbound			Southbound			Eastbound			Westbound		
Movement	Lt	Thru	Rt	Lt	Thru	Rt	Lt	Thru	Rt	Lt	Thru	Rt
2023	91	533	13	18	280	5	7	2	138	0	1	1
Seasonal	93	544	13	18	286	5	7	2	141	0	1	1
2024	96	560	14	19	294	5	7	2	145	0	1	1
Project	11	0	0	0	0	5	1	0	7	0	0	0
Total	107	560	14	19	294	10	8	2	152	0	1	1

Table 4 – PM Peak Hour Volumes

Roadway	State Road 47						SW Marvin Burnett Road					
Approach	Northbound			Southbound			Eastbound			Westbound		
Movement	Lt	Thru	Rt	Lt	Thru	Rt	Lt	Thru	Rt	Lt	Thru	Rt
2023	132	433	2	6	565	13	4	0	255	6	0	2
Seasonal	135	442	2	6	576	13	4	0	260	6	0	2
2024	139	455	2	6	594	14	4	0	268	6	0	2
Project	14	0	0	0	0	15	1	0	23	0	0	0
Total	153	455	2	6	594	29	5	0	291	6	0	2

The Highway Capacity Software (HCS) Two-Way Stop-Controlled intersection module was utilized in analyzing the no-build and the build-out traffic volumes at the intersection of SR 47 and Marvin Burnett Road. The results from the HCS analyses are summarized in **Table 5** and **Table 6** below. The outputs from HCS are included in Appendix B.

Table 5 – Intersection Level Of Service (AM)

Roadway	State Road 47				SW Marvin Burnett Road			
Approach	Northbound		Southbound		Eastbound		Westbound	
MOE	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
No-Build	8.3	A	9.0	A	11.3	B	19.4	C
Build	8.3	A	9.0	A	11.5	B	20.1	C

Table 6 – Intersection Level Of Service (PM)

Roadway	State Road 47				SW Marvin Burnett Road			
Approach	Northbound		Southbound		Eastbound		Westbound	
MOE	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
No-Build	9.8	A	8.5	A	15.9	C	28.8	D
Build	10.0	B	8.5	A	17.2	C	35.0	E

The HCS analyses show that the impacts of the proposed variety retail store development on the operation of the intersection are minimal in the AM period. In the PM period, the westbound approach degrades from LOS D to LOS E, despite the fact that the project assigns no trips to the westbound approach. The westbound approach is a minor approach to the intersection and even in the LOS E scenario is operating at a volume to capacity ratio of 0.07 with an hourly flow rate of just nine vehicles. The HCS two-way stop-controlled analysis is well known for being overly pessimistic, and this is an example of that. An average delay of 35 seconds is not an intolerable scenario for those vehicles.

The City of Lake City requested that the intersection of SW Bascom Norris Drive and SW Marvin Burnett Road also be analyzed for this project. Existing turning movement count data was also collected on Tuesday, July 18, 2023 at this intersection. Two hours of turning movement count data were collected for both the AM peak period (7 AM to 9 AM) and the PM peak period (4 PM to 6 PM). Out of that two-hours of data collection in each period, the overall AM peak hour of 7:30 AM to 8:30 AM and the overall PM peak hour of 4:45 PM to 5:45 PM were used in the analysis. A seasonal adjustment of 1.02 is then applied based on FDOT Peak Season Factor Category Report for Columbia County. A growth factor of 3% is then added to the volumes to convert to 2024 (expected build-out year) volumes. The AM peak hour volumes along with the assigned new project trips are provided in **Table 7** below. The PM peak hour volumes along with the assigned new project trips are provided in **Table 8** below. For this analysis, a worst-case scenario where all of the project trips from the proposed retail site are presumed to make a northbound left at the intersection.

Table 7 – AM Peak Hour Volumes

Roadway	SW Marvin Burnett Road						SW Bascom Norris Drive					
	Northbound			Southbound			Eastbound			Westbound		
Movement	Lt	Thru	Rt	Lt	Thru	Rt	Lt	Thru	Rt	Lt	Thru	Rt
2023	102	0	0	-	-	-	0	234	0	0	249	0
Seasonal	104	0	0	-	-	-	0	239	0	0	254	0
2024	107	0	0	-	-	-	0	246	0	0	262	0
Project	6	0	0	-	-	-	0	0	0	0	0	0
Total	113	0	0	-	-	-	0	246	0	0	262	0

Table 8 – PM Peak Hour Volumes

Roadway	SW Marvin Burnett Road						SW Bascom Norris Drive					
	Northbound			Southbound			Eastbound			Westbound		
Movement	Lt	Thru	Rt	Lt	Thru	Rt	Lt	Thru	Rt	Lt	Thru	Rt
2023	145	0	2	-	-	-	0	205	0	0	422	0
Seasonal	148	0	2	-	-	-	0	209	0	0	430	0
2024	152	0	2	-	-	-	0	215	0	0	443	0
Project	11	0	0	-	-	-	0	0	0	0	0	0
Total	163	0	2	-	-	-	0	215	0	0	443	0

The intersection of Bascom Norris Drive and Marvin Burnett Road is a somewhat unusual T-intersection: Bascom Norris Drive is the major street that does not stop, and Marvin Burnett Road intersects and is controlled by a STOP sign. However, the left turn from Bascom Norris Drive WB onto Marvin Burnett Road is prohibited, and the right turn from Bascom Norris Drive EB onto Marvin Burnett Road is a free-flowing movement that is channelized and unimpeded. Thus, the only movement that has any control delay is the northbound left or right turn from Marvin Barnett Road onto Bascom Norris Drive. The layout of the intersection is shown in **Figure 5** below.



Figure 5 - SW Bascom Norris Dr & SW Marvin Burnett Rd

The results from the HCS analyses are summarized in **Table 9** and **Table 10** below. The outputs from HCS are included in Appendix B.

Table 9 – Intersection Level Of Service (AM)

Roadway	SW Marvin Burnett Road				SW Bascom Norris Drive			
Approach	Northbound		Southbound		Eastbound		Westbound	
MOE	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
No-Build	15.8	C	-	-	-	-	-	-
Build	16.1	C	-	-	-	-	-	-

Table 10 – Intersection Level Of Service (PM)

Roadway	SW Marvin Burnett Road				SW Bascom Norris Drive			
Approach	Northbound		Southbound		Eastbound		Westbound	
MOE	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
No-Build	24.6	C	-	-	-	-	-	-
Build	26.0	D	-	-	-	-	-	-

The HCS analyses show that the impact of the project traffic on the intersection of SW Marvin Burnett Road and SW Bascom Norris Drive is minimal. Although in the PM period the LOS does go from C to D, it is only an increase of 1.4 seconds of delay per vehicle. This movement operates with a volume to capacity ratio of just 0.54 in the PM period with the project traffic.

CONCLUSIONS AND RECOMMENDATIONS

Based on the foregoing data and analysis provided, the following conclusions and recommendations are offered:

Conclusions:

- The proposed variety retail store is estimated to generate 32 trips in the AM Peak Hour and 71 trips in the PM Peak Hour. To be conservative in the analyses, these numbers were used. If the pass-by reductions from ITE are used, the net trips would be 21 in the AM Peak Hour and 47 in the PM Peak Hour.
- The additional traffic generated by the proposed variety retail store will not have a noticeable impact on the adjoining STOP-controlled intersections and will not degrade the performance of the transportation network.
- Neither left-turn lanes nor right-turn lanes are warranted on either State Road 47 or on SW Marvin Burnett Road. There is very little disruption to traffic with the addition of the project driveways and the generated project traffic.

Recommendations:

- Approve the project for construction and approve the associated driveway connection onto SW Marvin Burnett Road.

APPENDIX A: TURNING MOVEMENT COUNTS

SR 47 & SW Marvin Burnett - TMC

Tue Jul 18, 2023

Full Length (7 AM-9 AM, 4 PM-6 PM)

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091860, Location: 30.160196, -82.645384, Site Code: SR 47 & Marvin Burnett



Provided by: Hagen Consulting Services
361 Strawder Road, Ray City, GA, 31645, US

Leg Direction	Marvin Burnett Road Eastbound					Radiation Oncology Grp Westbound					SR 47 Northbound					SR 47 Southbound					Int
	L	T	R	U	App	L	T	R	U	App	L	T	R	U	App	L	T	R	U	App	
2023-07-18 7:00AM	0	0	17	0	17	0	0	0	0	0	13	91	2	0	106	0	58	1	1	60	183
7:15AM	1	0	16	0	17	0	0	0	0	0	16	140	2	0	158	0	42	0	0	42	217
7:30AM	2	0	34	0	36	0	0	0	0	0	20	163	3	0	186	2	63	1	4	70	292
7:45AM	0	0	35	0	35	0	1	0	0	1	27	150	3	0	180	1	82	2	4	89	305
Hourly Total	3	0	102	0	105	0	1	0	0	1	76	544	10	0	630	3	245	4	9	261	997
8:00AM	2	0	31	0	33	0	0	1	0	1	23	121	5	0	149	0	63	2	4	69	252
8:15AM	3	2	38	0	43	0	0	0	0	0	20	99	2	1	122	1	72	0	2	75	240
8:30AM	0	1	33	0	34	0	1	2	0	3	28	117	1	0	146	0	54	1	2	57	240
8:45AM	3	0	40	1	44	0	0	2	0	2	32	137	1	0	170	1	65	0	2	68	284
Hourly Total	8	3	142	1	154	0	1	5	0	6	103	474	9	1	587	2	254	3	10	269	1016
4:00PM	2	0	51	0	53	1	0	0	0	1	33	90	0	1	124	0	124	3	2	129	307
4:15PM	3	0	71	0	74	1	1	0	0	2	27	92	0	1	120	0	103	3	1	107	303
4:30PM	1	0	64	0	65	3	0	0	0	3	21	117	1	1	140	0	141	3	4	148	356
4:45PM	0	0	67	0	67	0	0	1	0	1	35	96	0	3	134	0	137	0	1	138	340
Hourly Total	6	0	253	0	259	5	1	1	0	7	116	395	1	6	518	0	505	9	8	522	1306
5:00PM	1	0	63	0	64	3	0	0	0	3	36	133	1	9	179	0	147	7	0	154	400
5:15PM	2	0	61	0	63	0	0	1	0	1	21	97	0	6	124	0	140	3	1	144	332
5:30PM	2	0	66	1	69	3	0	0	0	3	36	88	0	6	130	1	148	4	1	154	356
5:45PM	0	0	79	0	79	0	0	0	0	0	24	76	1	1	102	0	99	1	1	101	282
Hourly Total	5	0	269	1	275	6	0	1	0	7	117	394	2	22	535	1	534	15	3	553	1370
Total	22	3	766	2	793	11	3	7	0	21	412	1807	22	29	2270	6	1538	31	30	1605	4689
% Approach	2.8%	0.4%	96.6%	0.3%	-	52.4%	14.3%	33.3%	0%	-	18.1%	79.6%	1.0%	1.3%	-	0.4%	95.8%	1.9%	1.9%	-	-
% Total	0.5%	0.1%	16.3%	0%	16.9%	0.2%	0.1%	0.1%	0%	0.4%	8.8%	38.5%	0.5%	0.6%	48.4%	0.1%	32.8%	0.7%	0.6%	34.2%	-
Lights and Motorcycles	21	3	759	2	785	11	2	7	0	20	410	1743	22	28	2203	6	1489	28	29	1552	4560
% Lights and Motorcycles	95.5%	100%	99.1%	100%	99.0%	100%	66.7%	100%	0%	95.2%	99.5%	96.5%	100%	96.6%	97.0%	100%	96.8%	90.3%	96.7%	96.7%	97.2%
Heavy	1	0	7	0	8	0	1	0	0	1	2	64	0	1	67	0	49	3	1	53	129
% Heavy	4.5%	0%	0.9%	0%	1.0%	0%	33.3%	0%	0%	4.8%	0.5%	3.5%	0%	3.4%	3.0%	0%	3.2%	9.7%	3.3%	3.3%	2.8%

* L: Left, R: Right, T: Thru, U: U-Turn

SR 47 & SW Marvin Burnett - TMC

Tue Jul 18, 2023

Full Length (7 AM-9 AM, 4 PM-6 PM)

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091860, Location: 30.160196, -82.645384, Site Code: SR 47 & Marvin Burnett



Provided by: Hagen Consulting Services
361 Strawder Road, Ray City, GA, 31645, US

[N] SR 47

Total: 3471

In: 1605

Out: 1866

31
1538
6
30

[W] Marvin Burnett Road

Total: 1241

In: 793

Out: 448

22
3
766

7
11

Out: 31

In: 21

Total: 52

[E] Radiation Oncology Grp

29
412
1807
22

Out: 2344

In: 2270

Total: 4614

[S] SR 47

SR 47 & SW Marvin Burnett - TMC

Tue Jul 18, 2023

AM Peak (7:30 AM - 8:30 AM)

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091860, Location: 30.160196, -82.645384, Site Code: SR 47 & Marvin Burnett



Provided by: Hagen Consulting Services
361 Strawder Road, Ray City, GA, 31645, US

Leg Direction	Marvin Burnett Road Eastbound					Radiation Oncology Grp Westbound					SR 47 Northbound					SR 47 Southbound					Int
	L	T	R	U	App	L	T	R	U	App	L	T	R	U	App	L	T	R	U	App	
2023-07-18 7:30AM	2	0	34	0	36	0	0	0	0	0	20	163	3	0	186	2	63	1	4	70	292
7:45AM	0	0	35	0	35	0	1	0	0	1	27	150	3	0	180	1	82	2	4	89	305
8:00AM	2	0	31	0	33	0	0	1	0	1	23	121	5	0	149	0	63	2	4	69	252
8:15AM	3	2	38	0	43	0	0	0	0	0	20	99	2	1	122	1	72	0	2	75	240
Total	7	2	138	0	147	0	1	1	0	2	90	533	13	1	637	4	280	5	14	303	1089
% Approach	4.8%	1.4%	93.9%	0%	-	0%	50.0%	50.0%	0%	-	14.1%	83.7%	2.0%	0.2%	-	1.3%	92.4%	1.7%	4.6%	-	-
% Total	0.6%	0.2%	12.7%	0%	13.5%	0%	0.1%	0.1%	0%	0.2%	8.3%	48.9%	1.2%	0.1%	58.5%	0.4%	25.7%	0.5%	1.3%	27.8%	-
PHF	0.583	0.250	0.908	-	0.855	-	0.250	0.250	-	0.500	0.833	0.817	0.650	0.250	0.856	0.500	0.854	0.625	0.875	0.851	0.893
Lights and Motorcycles	7	2	137	0	146	0	0	1	0	1	89	515	13	1	618	4	272	3	13	292	1057
% Lights and Motorcycles	100%	100%	99.3%	0%	99.3%	0%	0%	100%	0%	50.0%	98.9%	96.6%	100%	100%	97.0%	100%	97.1%	60.0%	92.9%	96.4%	97.1%
Heavy	0	0	1	0	1	0	1	0	0	1	1	18	0	0	19	0	8	2	1	11	32
% Heavy	0%	0%	0.7%	0%	0.7%	0%	100%	0%	0%	50.0%	1.1%	3.4%	0%	0%	3.0%	0%	2.9%	40.0%	7.1%	3.6%	2.9%

*L: Left, R: Right, T: Thru, U: U-Turn

SR 47 & SW Marvin Burnett - TMC

Tue Jul 18, 2023

AM Peak (7:30 AM - 8:30 AM)

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091860, Location: 30.160196, -82.645384, Site Code: SR 47 & Marvin Burnett



Provided by: Hagen Consulting Services
361 Strawder Road, Ray City, GA, 31645, US

[N] SR 47

Total: 858

In: 303

Out: 555

5 280 4 14

[W] Marvin Burnett Road

Total: 243
In: 147 Out: 96

7 2 138

[E] Radiation Oncology Grp

Out: 19 In: 2
Total: 21

Out: 419

In: 637

Total: 1056

[S] SR 47

1 90 533 13

SR 47 & SW Marvin Burnett - TMC

Tue Jul 18, 2023

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091860, Location: 30.160196, -82.645384, Site Code: SR 47 & Marvin Burnett



Provided by: Hagen Consulting Services
361 Strawder Road, Ray City, GA, 31645, US

Leg Direction	Marvin Burnett Road Eastbound					Radiation Oncology Grp Westbound					SR 47 Northbound					SR 47 Southbound					Int
	L	T	R	U	App	L	T	R	U	App	L	T	R	U	App	L	T	R	U	App	
2023-07-18 4:30PM	1	0	64	0	65	3	0	0	0	3	21	117	1	1	140	0	141	3	4	148	356
4:45PM	0	0	67	0	67	0	0	1	0	1	35	96	0	3	134	0	137	0	1	138	340
5:00PM	1	0	63	0	64	3	0	0	0	3	36	133	1	9	179	0	147	7	0	154	400
5:15PM	2	0	61	0	63	0	0	1	0	1	21	97	0	6	124	0	140	3	1	144	332
Total	4	0	255	0	259	6	0	2	0	8	113	443	2	19	577	0	565	13	6	584	1428
% Approach	1.5%	0%	98.5%	0%	-	75.0%	0%	25.0%	0%	-	19.6%	76.8%	0.3%	3.3%	-	0%	96.7%	2.2%	1.0%	-	-
% Total	0.3%	0%	17.9%	0%	18.1%	0.4%	0%	0.1%	0%	0.6%	7.9%	31.0%	0.1%	1.3%	40.4%	0%	39.6%	0.9%	0.4%	40.9%	-
PHF	0.500	-	0.951	-	0.966	0.500	-	0.500	-	0.667	0.785	0.833	0.500	0.528	0.806	-	0.961	0.464	0.375	0.948	0.893
Lights and Motorcycles	3	0	253	0	256	6	0	2	0	8	113	430	2	18	563	0	549	12	6	567	1394
% Lights and Motorcycles	75.0%	0%	99.2%	0%	98.8%	100%	0%	100%	0%	100%	100%	97.1%	100%	94.7%	97.6%	0%	97.2%	92.3%	100%	97.1%	97.6%
Heavy	1	0	2	0	3	0	0	0	0	0	0	13	0	1	14	0	16	1	0	17	34
% Heavy	25.0%	0%	0.8%	0%	1.2%	0%	0%	0%	0%	0%	0%	2.9%	0%	5.3%	2.4%	0%	2.8%	7.7%	0%	2.9%	2.4%

*L: Left, R: Right, T: Thru, U: U-Turn

SR 47 & SW Marvin Burnett - TMC

Tue Jul 18, 2023

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091860, Location: 30.160196, -82.645384, Site Code: SR 47 & Marvin Burnett



Provided by: Hagen Consulting Services
361 Strawder Road, Ray City, GA, 31645, US

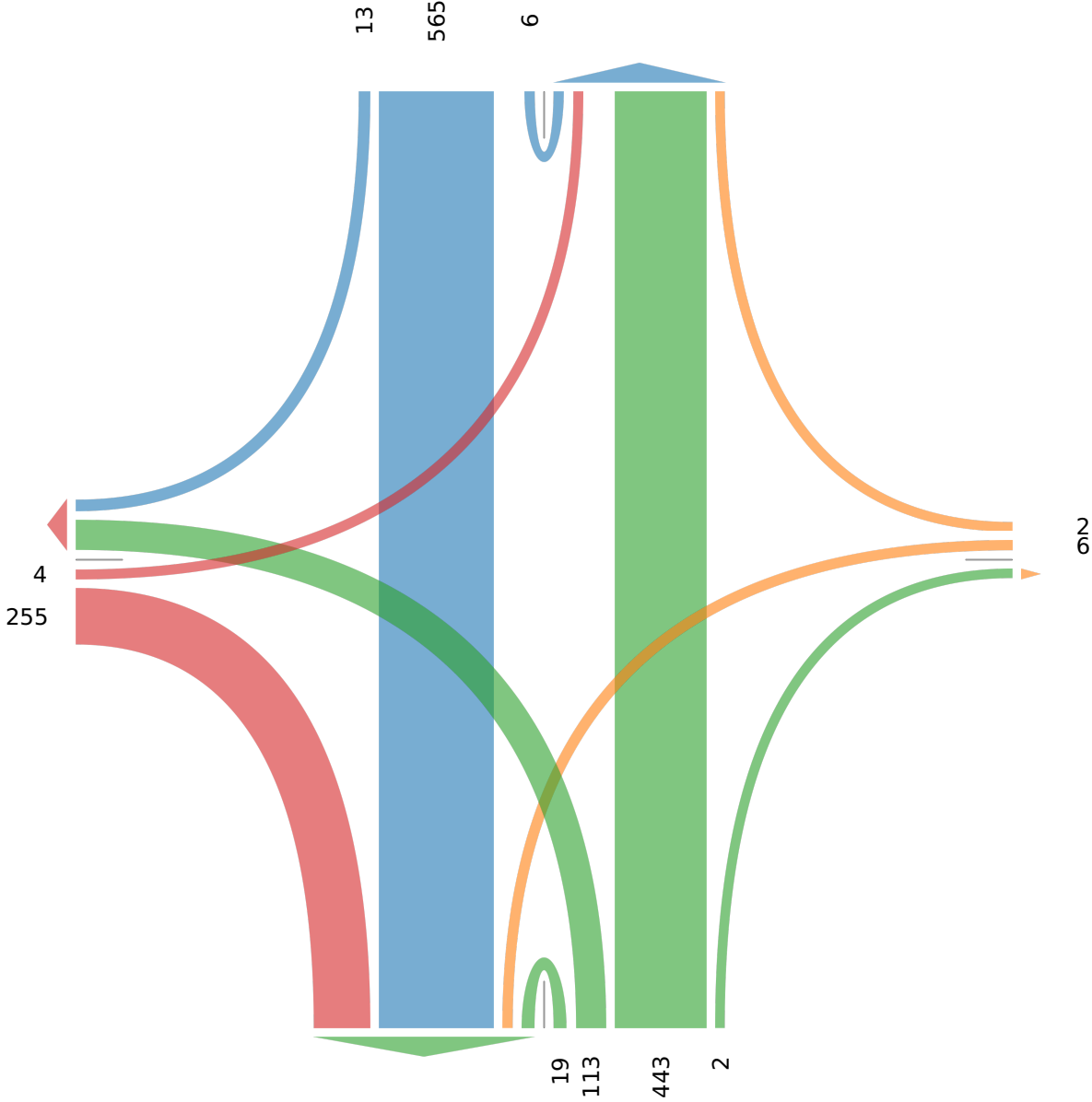
[N] SR 47

Total: 1039

In: 584 Out: 455

[W] Marvin Burnett Road

Total: 385
In: 259 Out: 126



622

Out: 2 In: 8
Total: 10

[E] Radiation Oncology Grp

Out: 845 In: 577

Total: 1422

[S] SR 47

Marvin Burnett & Bascom Norris - TMC

Tue Jul 18, 2023

Full Length (7 AM-9 AM, 4 PM-6 PM)

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091861, Location: 30.163397, -82.655082, Site Code: Marvin Burnett & Bascom Norris



Provided by: Hagen Consulting Services
361 Strawder Road,
Ray City, GA, 31645, US

Leg Direction	SW Bascom Norris Dr Eastbound				SW Bascom Norris Dr Westbound				SW Marvin Burnett Rd Northbound				
Time	T	R	U	App	L	T	U	App	L	R	U	App	Int
2023-07-18 7:00AM	33	0	0	33	0	27	0	27	16	0	0	16	76
7:15AM	31	0	0	31	0	48	0	48	16	0	0	16	95
7:30AM	59	0	0	59	0	63	0	63	21	0	0	21	143
7:45AM	78	0	0	78	0	63	0	63	34	0	0	34	175
Hourly Total	201	0	0	201	0	201	0	201	87	0	0	87	489
8:00AM	41	0	0	41	0	58	0	58	24	0	0	24	123
8:15AM	56	0	0	56	0	65	0	65	23	0	0	23	144
8:30AM	49	0	0	49	0	57	0	57	26	0	0	26	132
8:45AM	41	0	0	41	0	74	0	74	38	0	0	38	153
Hourly Total	187	0	0	187	0	254	0	254	111	0	0	111	552
4:00PM	43	0	0	43	0	103	0	103	36	0	0	36	182
4:15PM	52	0	0	52	0	107	0	107	38	0	0	38	197
4:30PM	48	0	0	48	0	97	0	97	20	0	0	20	165
4:45PM	48	0	0	48	0	95	0	95	32	0	0	32	175
Hourly Total	191	0	0	191	0	402	0	402	126	0	0	126	719
5:00PM	52	0	0	52	0	142	0	142	35	0	0	35	229
5:15PM	58	0	0	58	0	98	0	98	22	1	0	23	179
5:30PM	47	0	0	47	0	87	0	87	56	1	0	57	191
5:45PM	44	0	0	44	0	62	0	62	29	0	0	29	135
Hourly Total	201	0	0	201	0	389	0	389	142	2	0	144	734
Total	780	0	0	780	0	1246	0	1246	466	2	0	468	2494
% Approach	100%	0%	0%	-	0%	100%	0%	-	99.6%	0.4%	0%	-	-
% Total	31.3%	0%	0%	31.3%	0%	50.0%	0%	50.0%	18.7%	0.1%	0%	18.8%	-
Lights and Motorcycles	759	0	0	759	0	1221	0	1221	461	2	0	463	2443
% Lights and Motorcycles	97.3%	0%	0%	97.3%	0%	98.0%	0%	98.0%	98.9%	100%	0%	98.9%	98.0%
Heavy	21	0	0	21	0	25	0	25	5	0	0	5	51
% Heavy	2.7%	0%	0%	2.7%	0%	2.0%	0%	2.0%	1.1%	0%	0%	1.1%	2.0%

*L: Left, R: Right, T: Thru, U: U-Turn

Marvin Burnett & Bascom Norris - TMC

Tue Jul 18, 2023

Full Length (7 AM-9 AM, 4 PM-6 PM)

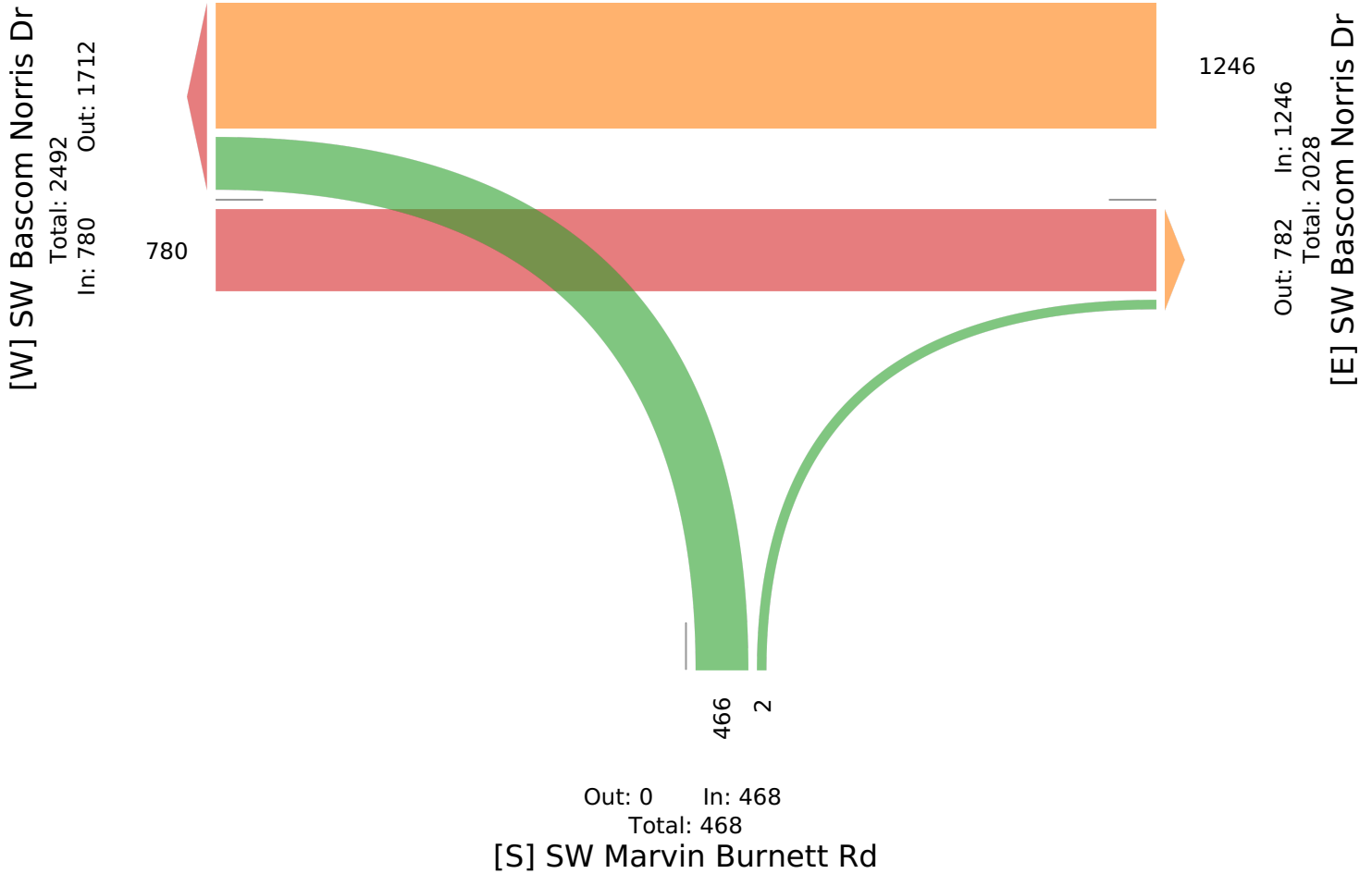
All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091861, Location: 30.163397, -82.655082, Site Code: Marvin Burnett & Bascom Norris



Provided by: Hagen Consulting Services
361 Strawder Road,
Ray City, GA, 31645, US



Marvin Burnett & Bascom Norris - TMC

Tue Jul 18, 2023

AM Peak (7:30 AM - 8:30 AM)

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091861, Location: 30.163397, -82.655082, Site Code: Marvin Burnett & Bascom Norris



Provided by: Hagen Consulting Services
361 Strawder Road,
Ray City, GA, 31645, US

Leg Direction	SW Bascom Norris Dr Eastbound				SW Bascom Norris Dr Westbound				SW Marvin Burnett Rd Northbound				
Time	T	R	U	App	L	T	U	App	L	R	U	App	Int
2023-07-18 7:30AM	59	0	0	59	0	63	0	63	21	0	0	21	143
7:45AM	78	0	0	78	0	63	0	63	34	0	0	34	175
8:00AM	41	0	0	41	0	58	0	58	24	0	0	24	123
8:15AM	56	0	0	56	0	65	0	65	23	0	0	23	144
Total	234	0	0	234	0	249	0	249	102	0	0	102	585
% Approach	100%	0%	0%	-	0%	100%	0%	-	100%	0%	0%	-	-
% Total	40.0%	0%	0%	40.0%	0%	42.6%	0%	42.6%	17.4%	0%	0%	17.4%	-
PHF	0.750	-	-	0.750	-	0.958	-	0.958	0.750	-	-	0.750	0.836
Lights and Motorcycles	222	0	0	222	0	240	0	240	99	0	0	99	561
% Lights and Motorcycles	94.9%	0%	0%	94.9%	0%	96.4%	0%	96.4%	97.1%	0%	0%	97.1%	95.9%
Heavy	12	0	0	12	0	9	0	9	3	0	0	3	24
% Heavy	5.1%	0%	0%	5.1%	0%	3.6%	0%	3.6%	2.9%	0%	0%	2.9%	4.1%

* L: Left, R: Right, T: Thru, U: U-Turn

Marvin Burnett & Bascom Norris - TMC

Tue Jul 18, 2023

AM Peak (7:30 AM - 8:30 AM)

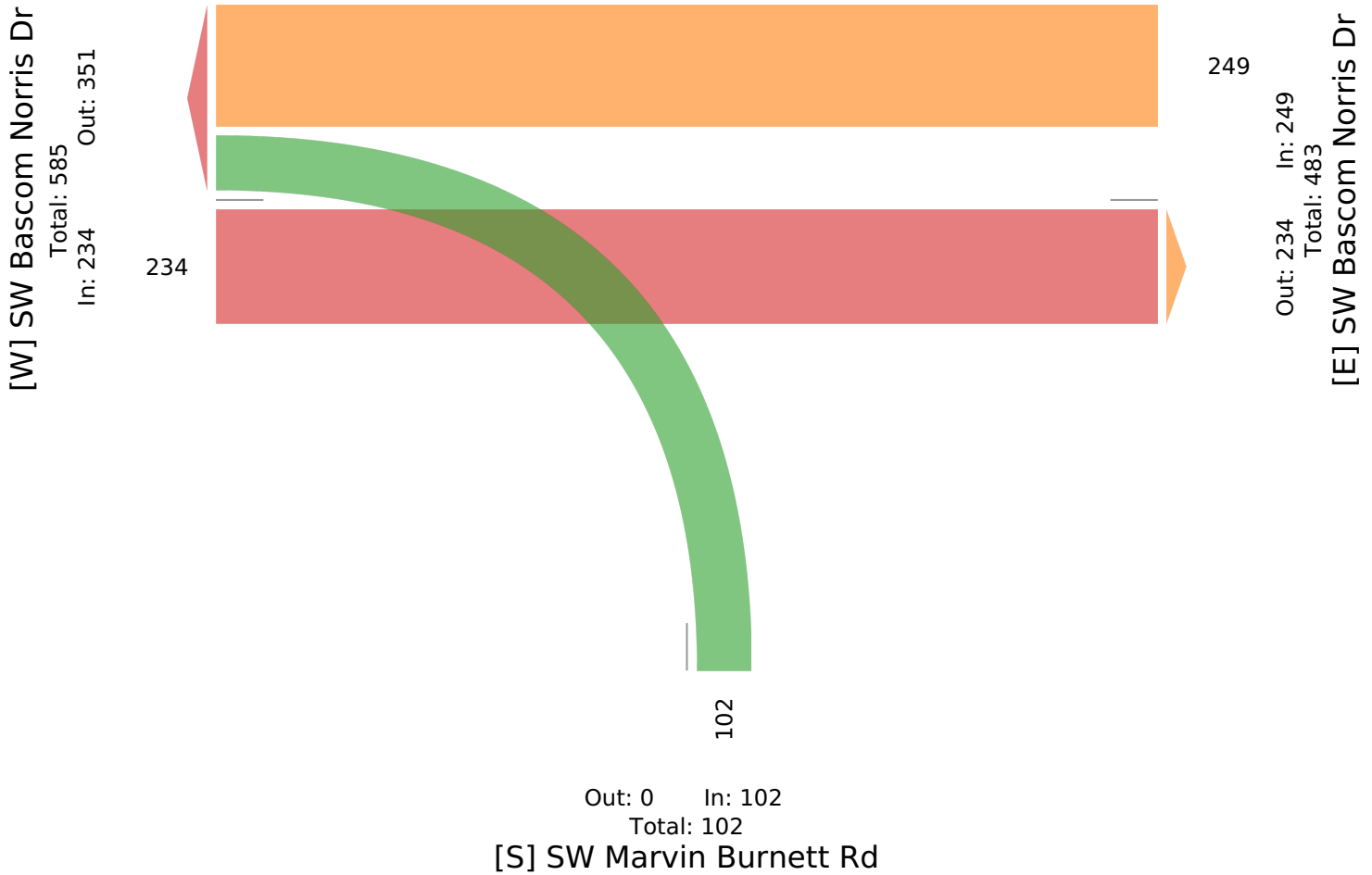
All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091861, Location: 30.163397, -82.655082, Site Code: Marvin Burnett & Bascom Norris



Provided by: Hagen Consulting Services
361 Strawder Road,
Ray City, GA, 31645, US



Marvin Burnett & Bascom Norris - TMC

Tue Jul 18, 2023

PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091861, Location: 30.163397, -82.655082, Site Code: Marvin Burnett & Bascom Norris



Provided by: Hagen Consulting Services
361 Strawder Road,
Ray City, GA, 31645, US

Leg Direction	SW Bascom Norris Dr Eastbound				SW Bascom Norris Dr Westbound				SW Marvin Burnett Rd Northbound				
Time	T	R	U	App	L	T	U	App	L	R	U	App	Int
2023-07-18 4:45PM	48	0	0	48	0	95	0	95	32	0	0	32	175
5:00PM	52	0	0	52	0	142	0	142	35	0	0	35	229
5:15PM	58	0	0	58	0	98	0	98	22	1	0	23	179
5:30PM	47	0	0	47	0	87	0	87	56	1	0	57	191
Total	205	0	0	205	0	422	0	422	145	2	0	147	774
% Approach	100%	0%	0%	-	0%	100%	0%	-	98.6%	1.4%	0%	-	-
% Total	26.5%	0%	0%	26.5%	0%	54.5%	0%	54.5%	18.7%	0.3%	0%	19.0%	-
PHF	0.884	-	-	0.884	-	0.743	-	0.743	0.647	0.500	-	0.645	0.845
Lights and Motorcycles	204	0	0	204	0	416	0	416	144	2	0	146	766
% Lights and Motorcycles	99.5%	0%	0%	99.5%	0%	98.6%	0%	98.6%	99.3%	100%	0%	99.3%	99.0%
Heavy	1	0	0	1	0	6	0	6	1	0	0	1	8
% Heavy	0.5%	0%	0%	0.5%	0%	1.4%	0%	1.4%	0.7%	0%	0%	0.7%	1.0%

*L: Left, R: Right, T: Thru, U: U-Turn

Marvin Burnett & Bascom Norris - TMC

Tue Jul 18, 2023

PM Peak (4:45 PM - 5:45 PM) - Overall Peak Hour

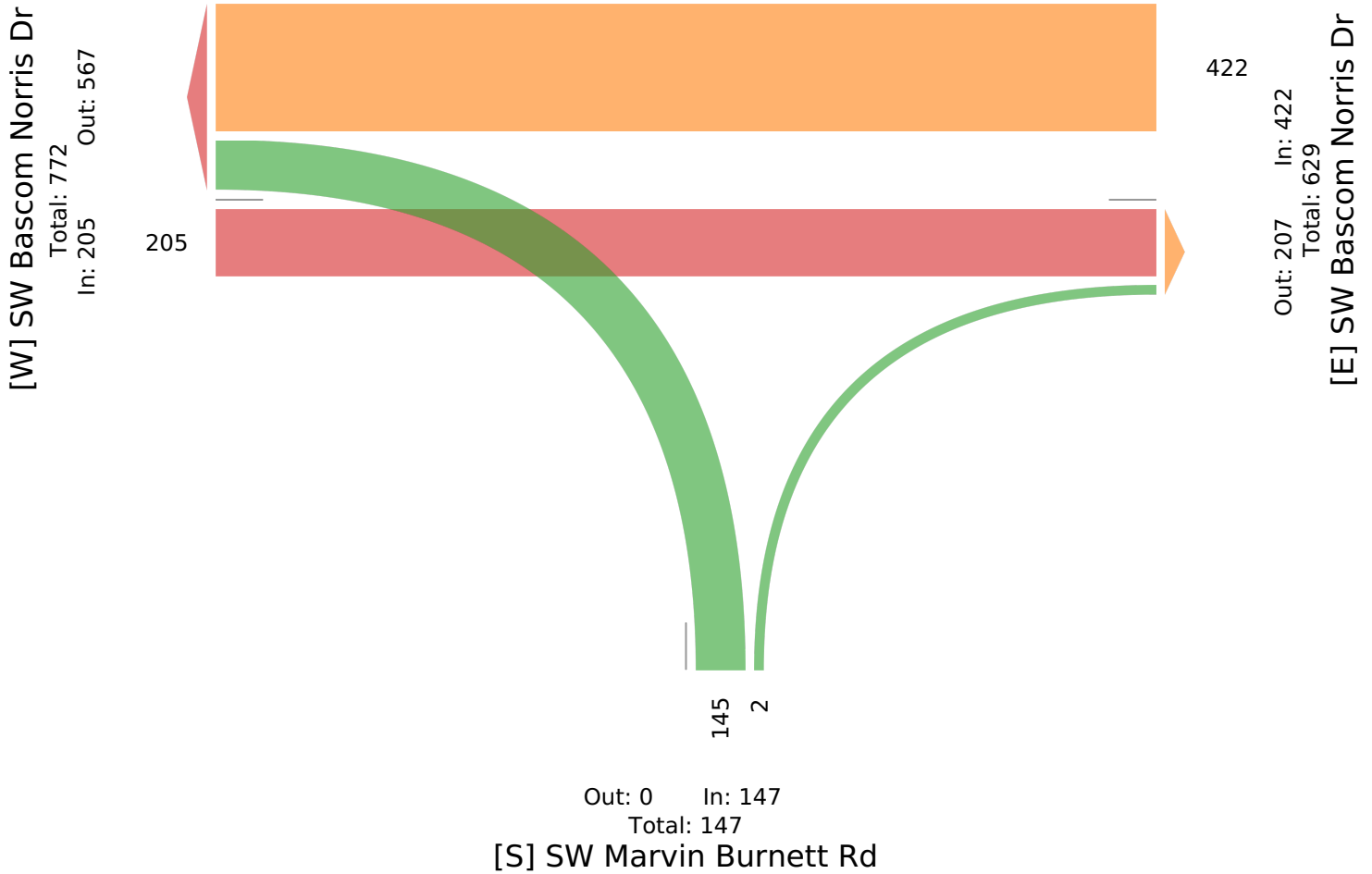
All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1091861, Location: 30.163397, -82.655082, Site Code: Marvin Burnett & Bascom Norris



Provided by: Hagen Consulting Services
361 Strawder Road,
Ray City, GA, 31645, US



2022 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL
 CATEGORY: 2900 COLUMBIA COUNTYWIDE

WEEK	DATES	SF	MOCF: 0.98 PSCF
1	01/01/2022 - 01/01/2022	1.02	1.04
2	01/02/2022 - 01/08/2022	1.05	1.07
3	01/09/2022 - 01/15/2022	1.08	1.10
4	01/16/2022 - 01/22/2022	1.07	1.09
5	01/23/2022 - 01/29/2022	1.05	1.07
6	01/30/2022 - 02/05/2022	1.03	1.05
7	02/06/2022 - 02/12/2022	1.02	1.04
8	02/13/2022 - 02/19/2022	1.00	1.02
9	02/20/2022 - 02/26/2022	1.00	1.02
10	02/27/2022 - 03/05/2022	0.99	1.01
11	03/06/2022 - 03/12/2022	0.99	1.01
*12	03/13/2022 - 03/19/2022	0.98	1.00
*13	03/20/2022 - 03/26/2022	0.98	1.00
*14	03/27/2022 - 04/02/2022	0.98	1.00
*15	04/03/2022 - 04/09/2022	0.97	0.99
*16	04/10/2022 - 04/16/2022	0.97	0.99
*17	04/17/2022 - 04/23/2022	0.97	0.99
*18	04/24/2022 - 04/30/2022	0.97	0.99
*19	05/01/2022 - 05/07/2022	0.97	0.99
*20	05/08/2022 - 05/14/2022	0.97	0.99
*21	05/15/2022 - 05/21/2022	0.98	1.00
*22	05/22/2022 - 05/28/2022	0.98	1.00
*23	05/29/2022 - 06/04/2022	0.99	1.01
*24	06/05/2022 - 06/11/2022	0.99	1.01
25	06/12/2022 - 06/18/2022	1.00	1.02
26	06/19/2022 - 06/25/2022	1.00	1.02
27	06/26/2022 - 07/02/2022	1.01	1.03
28	07/03/2022 - 07/09/2022	1.02	1.04
29	07/10/2022 - 07/16/2022	1.03	1.05
30	07/17/2022 - 07/23/2022	1.02	1.04
31	07/24/2022 - 07/30/2022	1.01	1.03
32	07/31/2022 - 08/06/2022	1.01	1.03
33	08/07/2022 - 08/13/2022	1.00	1.02
34	08/14/2022 - 08/20/2022	0.99	1.01
35	08/21/2022 - 08/27/2022	1.00	1.02
36	08/28/2022 - 09/03/2022	1.00	1.02
37	09/04/2022 - 09/10/2022	1.01	1.03
38	09/11/2022 - 09/17/2022	1.01	1.03
39	09/18/2022 - 09/24/2022	1.00	1.02
40	09/25/2022 - 10/01/2022	0.99	1.01
41	10/02/2022 - 10/08/2022	0.98	1.00
42	10/09/2022 - 10/15/2022	0.97	0.99
43	10/16/2022 - 10/22/2022	0.98	1.00
44	10/23/2022 - 10/29/2022	0.99	1.01
45	10/30/2022 - 11/05/2022	1.00	1.02
46	11/06/2022 - 11/12/2022	1.01	1.03
47	11/13/2022 - 11/19/2022	1.02	1.04
48	11/20/2022 - 11/26/2022	1.02	1.04
49	11/27/2022 - 12/03/2022	1.02	1.04
50	12/04/2022 - 12/10/2022	1.02	1.04
51	12/11/2022 - 12/17/2022	1.02	1.04
52	12/18/2022 - 12/24/2022	1.05	1.07
53	12/25/2022 - 12/31/2022	1.08	1.10

* PEAK SEASON

23-FEB-2023 09:11:19

830UPD

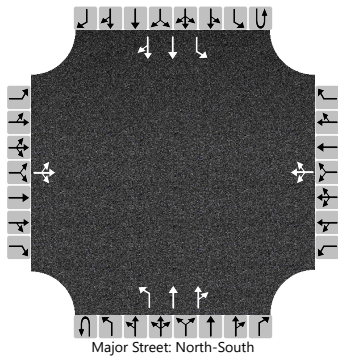
2_2900_PKSEASON.TXT

APPENDIX B: HIGHWAY CAPACITY ANALYSES

HCS Two-Way Stop-Control Report

General Information		Site Information	
Analyst	L. Hagen	Intersection	SR 47 & Marvin Burnett Road
Agency/Co.	Hagen Consulting Services	Jurisdiction	Columbia County
Date Performed	10/2/2023	East/West Street	SW Marvin Burnett Road
Analysis Year	2024	North/South Street	SR 47
Time Analyzed	AM Peak Period	Peak Hour Factor	0.89
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	No-build scenario		

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound					
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R		
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6		
Number of Lanes		0	1	0		0	1	0		0	1	2	0	0	1	2	0	
Configuration			LTR				LTR			L	T	TR			L	T	TR	
Volume (veh/h)		7	2	145		0	1	1		0	96	560	14		0	19	294	5
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3	3				3	3		
Proportion Time Blocked																		
Percent Grade (%)		0				0												
Right Turn Channelized																		
Median Type Storage		Left Only								1								

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1				4.1			
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16				4.16			
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2			
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23				2.23			

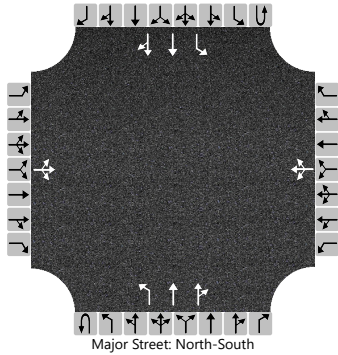
Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			173				2			108				21			
Capacity, c (veh/h)			743				252			1213				929			
v/c Ratio			0.23				0.01			0.09				0.02			
95% Queue Length, Q ₉₅ (veh)			0.9				0.0			0.3				0.1			
Control Delay (s/veh)			11.3				19.4			8.3				9.0			
Level of Service (LOS)			B				C			A				A			
Approach Delay (s/veh)		11.3				19.4				1.2				0.5			
Approach LOS		B				C				A				A			

HCS Two-Way Stop-Control Report

General Information		Site Information	
Analyst	L. Hagen	Intersection	SR 47 & Marvin Burnett Road
Agency/Co.	Hagen Consulting Services	Jurisdiction	Columbia County
Date Performed	10/2/2023	East/West Street	SW Marvin Burnett Road
Analysis Year	2024	North/South Street	SR 47
Time Analyzed	AM Peak Period	Peak Hour Factor	0.89
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	Build scenario		

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound				
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	1	0		1	2	0		1	2	0	
Configuration			LTR				LTR			L	T	TR		L	T	TR	
Volume (veh/h)		8	2	152		0	1	1	0	107	560	14	0	19	294	10	
Percent Heavy Vehicles (%)		3	3	3		3	3	3	3	3			3	3			
Proportion Time Blocked																	
Percent Grade (%)		0				0											
Right Turn Channelized																	
Median Type Storage		Left Only								1							

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1				4.1		
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16				4.16		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23				2.23		

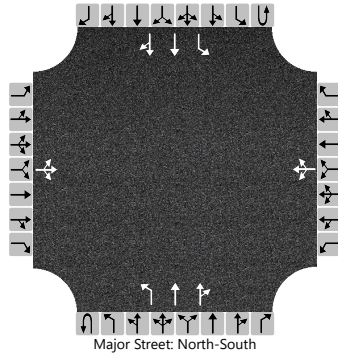
Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			182				2			120				21			
Capacity, c (veh/h)			732				241			1207				929			
v/c Ratio			0.25				0.01			0.10				0.02			
95% Queue Length, Q ₉₅ (veh)			1.0				0.0			0.3				0.1			
Control Delay (s/veh)			11.5				20.1			8.3				9.0			
Level of Service (LOS)			B				C			A				A			
Approach Delay (s/veh)		11.5				20.1				1.3				0.5			
Approach LOS		B				C				A				A			

HCS Two-Way Stop-Control Report

General Information		Site Information	
Analyst	L. Hagen	Intersection	SR 47 & Marvin Burnett Road
Agency/Co.	Hagen Consulting Services	Jurisdiction	Columbia County
Date Performed	10/2/2023	East/West Street	SW Marvin Burnett Road
Analysis Year	2024	North/South Street	SR 47
Time Analyzed	PM Peak Period	Peak Hour Factor	0.89
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	No-build scenario		

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound					
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R		
Movement																		
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6		
Number of Lanes		0	1	0		0	1	0		0	1	2	0		0	1	2	0
Configuration			LTR				LTR			L	T	TR			L	T	TR	
Volume (veh/h)		4	0	268		6	0	2		0	139	455	2		0	6	594	14
Percent Heavy Vehicles (%)		3	3	3		3	3	3		3	3				3	3		
Proportion Time Blocked																		
Percent Grade (%)	0				0													
Right Turn Channelized																		
Median Type Storage	Left Only								1									

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1					4.1			
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16					4.16			
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2					2.2			
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23					2.23			

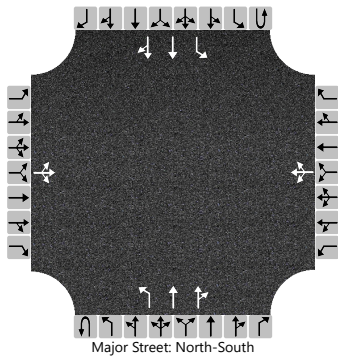
Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			306				9				156					7		
Capacity, c (veh/h)			634				160				899					1041		
v/c Ratio			0.48				0.06				0.17					0.01		
95% Queue Length, Q ₉₅ (veh)			2.6				0.2				0.6					0.0		
Control Delay (s/veh)			15.9				28.8				9.8					8.5		
Level of Service (LOS)			C				D				A					A		
Approach Delay (s/veh)	15.9				28.8				2.3				0.1					
Approach LOS	C				D				A				A					

HCS Two-Way Stop-Control Report

General Information		Site Information	
Analyst	L. Hagen	Intersection	SR 47 & Marvin Burnett Road
Agency/Co.	Hagen Consulting Services	Jurisdiction	Columbia County
Date Performed	10/2/2023	East/West Street	SW Marvin Burnett Road
Analysis Year	2024	North/South Street	SR 47
Time Analyzed	PM Peak Period	Peak Hour Factor	0.89
Intersection Orientation	North-South	Analysis Time Period (hrs)	0.25
Project Description	Build scenario		

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound				
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6	
Number of Lanes		0	1	0		0	1	0	0	1	2	0	0	1	2	0	
Configuration			LTR				LTR			L	T	TR		L	T	TR	
Volume (veh/h)		5	0	291		6	0	2	0	153	455	2	0	6	594	29	
Percent Heavy Vehicles (%)		3	3	3		3	3	3	3	3			3	3			
Proportion Time Blocked																	
Percent Grade (%)		0				0											
Right Turn Channelized																	
Median Type Storage		Left Only								1							

Critical and Follow-up Headways

Base Critical Headway (sec)		7.5	6.5	6.9		7.5	6.5	6.9		4.1				4.1		
Critical Headway (sec)		7.56	6.56	6.96		7.56	6.56	6.96		4.16				4.16		
Base Follow-Up Headway (sec)		3.5	4.0	3.3		3.5	4.0	3.3		2.2				2.2		
Follow-Up Headway (sec)		3.53	4.03	3.33		3.53	4.03	3.33		2.23				2.23		

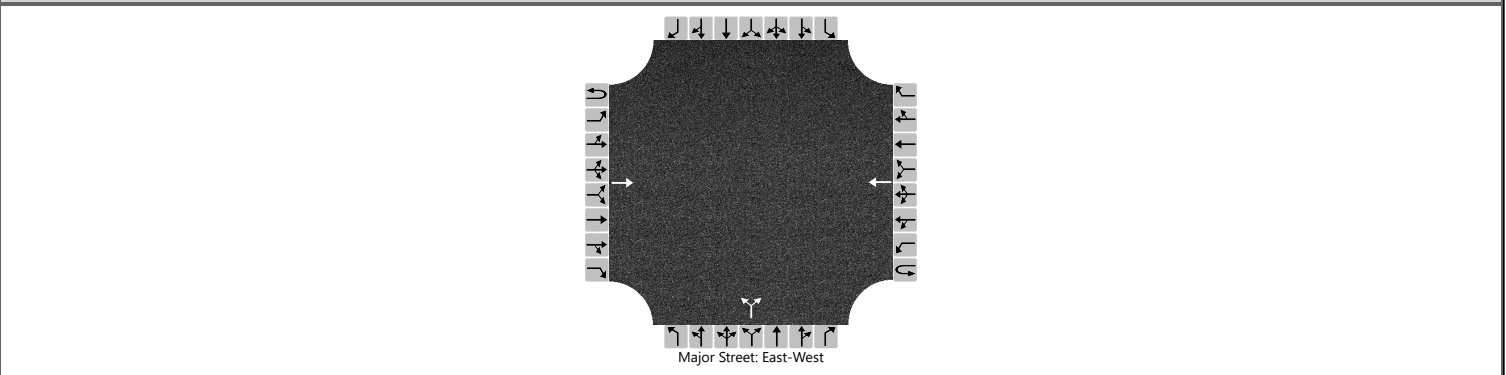
Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)			333				9			172				7			
Capacity, c (veh/h)			622				129			886				1041			
v/c Ratio			0.53				0.07			0.19				0.01			
95% Queue Length, Q ₉₅ (veh)			3.2				0.2			0.7				0.0			
Control Delay (s/veh)			17.2				35.0			10.0				8.5			
Level of Service (LOS)			C				E			B				A			
Approach Delay (s/veh)		17.2				35.0				2.5				0.1			
Approach LOS		C				E				A				A			

HCS Two-Way Stop-Control Report

General Information		Site Information	
Analyst	L. Hagen	Intersection	Bascom Norris & Marvin Burnett
Agency/Co.	Hagen Consulting Services	Jurisdiction	Columbia County
Date Performed	10/2/2023	East/West Street	Bascom Norris Drive
Analysis Year	2024	North/South Street	Marvin Burnett Road
Time Analyzed	AM Peak	Peak Hour Factor	0.84
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	No-build scenario		

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement	1U	1	2	3	4U	4	5	6	7	8	9		10	11	12	
Priority																
Number of Lanes	0	0	1	0	0	0	1	0	0	1	0		0	0	0	
Configuration			T				T			LR						
Volume (veh/h)			246				262			107		0				
Percent Heavy Vehicles (%)										3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized																
Median Type Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)										7.1		6.2				
Critical Headway (sec)										6.43		6.23				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.53		3.33				

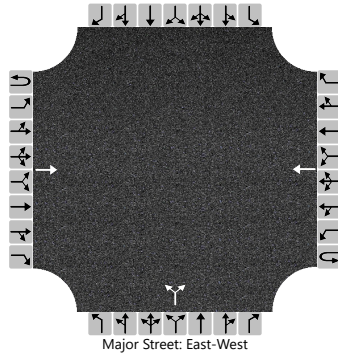
Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										127						
Capacity, c (veh/h)										459						
v/c Ratio										0.28						
95% Queue Length, Q ₉₅ (veh)										1.1						
Control Delay (s/veh)										15.8						
Level of Service (LOS)										C						
Approach Delay (s/veh)										15.8						
Approach LOS										C						

HCS Two-Way Stop-Control Report

General Information		Site Information	
Analyst	L. Hagen	Intersection	Bascom Norris & Marvin Burnett
Agency/Co.	Hagen Consulting Services	Jurisdiction	Columbia County
Date Performed	10/2/2023	East/West Street	Bascom Norris Drive
Analysis Year	2024	North/South Street	Marvin Burnett Road
Time Analyzed	AM Peak	Peak Hour Factor	0.84
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	Build scenario		

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement	1U	1	2	3	4U	4	5	6	7	8	9		10	11	12	
Priority																
Number of Lanes	0	0	1	0	0	0	1	0	0	1	0		0	0	0	
Configuration			T				T			LR						
Volume (veh/h)			246				262			113		0				
Percent Heavy Vehicles (%)										3		3				
Proportion Time Blocked																
Percent Grade (%)									0							
Right Turn Channelized																
Median Type Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)										7.1		6.2				
Critical Headway (sec)										6.43		6.23				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.53		3.33				

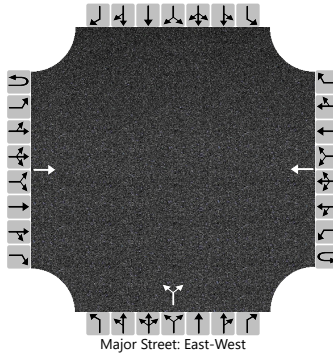
Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										135						
Capacity, c (veh/h)										459						
v/c Ratio										0.29						
95% Queue Length, Q ₉₅ (veh)										1.2						
Control Delay (s/veh)										16.1						
Level of Service (LOS)										C						
Approach Delay (s/veh)									16.1							
Approach LOS									C							

HCS Two-Way Stop-Control Report

General Information		Site Information	
Analyst	L. Hagen	Intersection	Bascom Norris & Marvin Burnett
Agency/Co.	Hagen Consulting Services	Jurisdiction	Columbia County
Date Performed	10/2/2023	East/West Street	Bascom Norris Drive
Analysis Year	2024	North/South Street	Marvin Burnett Road
Time Analyzed	PM Peak	Peak Hour Factor	0.84
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	No-build scenario		

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement	1U	1	2	3	4U	4	5	6	7	8	9		10	11	12	
Priority																
Number of Lanes	0	0	1	0	0	0	1	0	0	1	0		0	0	0	
Configuration			T				T			LR						
Volume (veh/h)			215				443			152		0				
Percent Heavy Vehicles (%)										3		3				
Proportion Time Blocked																
Percent Grade (%)										0						
Right Turn Channelized																
Median Type Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)										7.1		6.2				
Critical Headway (sec)										6.43		6.23				
Base Follow-Up Headway (sec)										3.5		3.3				
Follow-Up Headway (sec)										3.53		3.33				

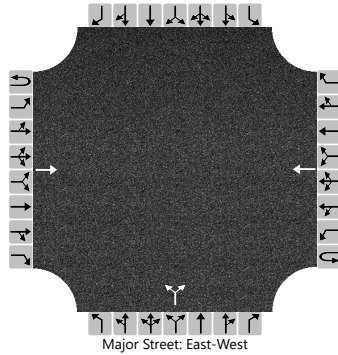
Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)										181						
Capacity, c (veh/h)										361						
v/c Ratio										0.50						
95% Queue Length, Q ₉₅ (veh)										2.7						
Control Delay (s/veh)										24.6						
Level of Service (LOS)										C						
Approach Delay (s/veh)										24.6						
Approach LOS										C						

HCS Two-Way Stop-Control Report

General Information		Site Information	
Analyst	L. Hagen	Intersection	Bascom Norris & Marvin Burnett
Agency/Co.	Hagen Consulting Services	Jurisdiction	Columbia County
Date Performed	10/2/2023	East/West Street	Bascom Norris Drive
Analysis Year	2024	North/South Street	Marvin Burnett Road
Time Analyzed	PM Peak	Peak Hour Factor	0.84
Intersection Orientation	East-West	Analysis Time Period (hrs)	0.25
Project Description	Build scenario		

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement	1U	1	2	3	4U	4	5	6	7	8	9		10	11	12	
Priority																
Number of Lanes	0	0	1	0	0	0	1	0	0	1	0		0	0	0	
Configuration			T				T			LR						
Volume (veh/h)			215				443			163		0				
Percent Heavy Vehicles (%)										3		3				
Proportion Time Blocked																
Percent Grade (%)									0							
Right Turn Channelized																
Median Type Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)									7.1		6.2				
Critical Headway (sec)									6.43		6.23				
Base Follow-Up Headway (sec)									3.5		3.3				
Follow-Up Headway (sec)									3.53		3.33				

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)									194							
Capacity, c (veh/h)									361							
v/c Ratio									0.54							
95% Queue Length, Q ₉₅ (veh)									3.0							
Control Delay (s/veh)									26.0							
Level of Service (LOS)									D							
Approach Delay (s/veh)									26.0							
Approach LOS									D							

Stormwater Management System Report

CRS Marvin Burnett



Prepared For: Concept Development, Inc.

Submitted To: City of Lake City and Suwannee River Water Management District

Date: 03/20/2024
PN# 23-0653
PM: Randall S. Olney,
P.E.

Address: 1449 SW 74th Drive
Suite 200
Gainesville, Florida 32607

www.chw-inc.com

CHW
Professional Consultants

Engineer's Certification Statement

I hereby certify that the design of the stormwater management systems for the project known as CRS Marvin Burnett has been designed substantially in accordance with the City of Lake City, the Suwannee River Water Management District, and the Florida Department of Transportation applicable rules and regulations.

**Randall Scott Olney,
State of Florida, Professional
Engineer, License No. 68382**

This item has been electronically signed and sealed by Randall Scott Olney, PE. On 03/21/2024 using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Digitally signed by Randall Scott Olney
DN: E=randyo@chw-inc.com, CN=Randall Scott Olney, O=Randall Scott Olney, L=Alachua, S=Florida, C=US
Date: 2024.03.21 13:52:58-04'00'

Randall S. Olney, FL PE No. 68382

03 / 21 / 2024
Date

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- 5 FEMA Flood Map
- 6 Pre-Development Drainage Map
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- A. Drainage Calculations and Computer Model Output
- B. Operation and Maintenance Requirements and Erosion and Sedimentation Control Requirements
- C. Geotechnical Report

Introduction

The CRS Marvin Burnett project proposes the development of a ±10,640 sf commercial retail store with associated parking, stormwater, and utility infrastructure. The total proposed site area is ± 2.70 acres, located along the northwest corner of the intersection of State Road 47 and SW Marvin Burnett Road in Lake City, Florida.

The project site is located on a portion of tax parcel #07-4S-17-08127-005 according to the Columbia County Property Appraiser's website. Figure 1 provides a Location Map and Figure 2 depicts the site on a portion of the Lake City West USGS Quadrangle Map. The site is located in Section 7, Township 4 South, Range 17 East in Columbia County, Florida.

Refer to the accompanying engineering plans for details about the proposed construction and demolition regarding this project.

Design Criteria

The design criteria for the proposed stormwater management facility (SMF) is based upon the criteria set forth by the City of Lake City (CLC), the Suwannee River Water Management District (SRWMD), and the Florida Department of Transportation (FDOT) for a dry retention system design in a closed watershed. The criteria are as follows:

1. **Provide Peak Discharge Rate Attenuation:** Attenuate the post-development peak discharge rates to be less than the pre-development peak discharge rates for:
 - a. The 100 year – 1 hour, 100 year – 2 hour, 100 year – 4 hour, 100 year – 8 hour, 100 year – 24 hour storm events (SRWMD).
 - b. The 3, 5, 10, 25, 50, and 100-year frequency analysis of the 1, 2, 4, 8, 24, 72, 168, and 240-hr storm events (FDOT).
2. **Provide Peak Discharge Volume Attenuation:** Attenuate the post-development peak discharge volumes to be less than the pre-development peak discharge volume for:
 - a. The 100 year – 1 hour, 100 year – 2 hour, 100 year – 4 hour, 100 year – 8 hour, 100 year – 24 hour storm events (SRWMD).
 - b. The 3, 5, 10, 25, 50, and 100-year frequency analysis of the 1, 2, 4, 8, 24, 72, 168, and 240-hr storm events (FDOT).
3. **Provide Water Quality Treatment Volume (WQTV):** The minimum stormwater treatment volume shall be the runoff from the first 2.0 inch of runoff from the design storm. WQTV must be recovered within 72 hours (SRWMD).
4. **Freeboard:** Retention ponds shall have a freeboard of 1 foot above the maximum stage in order to function properly during storms greater than the design storm (SRWMD).
5. **Provide Volume Recovery:** Retention systems must have one-half of the total volume available within 7 days following the end of the design storm event, and the total volume must be recovered within 30 days following the end of the storm event (SRWMD and FDOT).

Alternatively, if recovery requirements cannot be met, back-to-back storms can be routed through the system (SRWMD).

6. Fencing: Any water retention areas that have a potential of holding water in excess of one (1) foot depth to be fenced with a four (4) foot high fence and screened by trees or shrubbery (CLC).

City of Lake City, SRWMD, and FDOT also require that best management practices be employed to control erosion, sedimentation, and that an operation and maintenance entity be established.

Site Characteristics

Physical characteristics of the site are described in the following sections. Additional details are provided in the accompanying Engineering plans.

Site Topography

The existing site is undeveloped and heavily wooded with existing pavement and structures that are to be removed. The project site is bordered by a single-family residence to the west, a church to the north, State Road 47 to the east, and Marvin Burnett Road to the south. The site is sloped from the northeast to the southwest. Site topography ranges from EL. $\pm 167.00'$ (NAVD 88) in the northeast corner of the site to EL. $\pm 152.60'$ (NAVD 88) in the southwest corner.

Please refer to the accompanying engineering plans for details.

Pre-Development Drainage

Pre-development drainage consists of two watersheds: Pre-Development Watershed #1 (Pre DA-1) and Pre-Development Watershed #2 (Pre DA-2). Pre DA-1 is ± 2.03 acres in size and includes a portion of offsite area to the north of the site as well as most of the western portion of the project site. Stormwater runoff from Pre DA-1 flows via sheet flow and shallow concentrated flow to a natural low area along the western boundary of the site. Pre DA-2 is ± 1.79 acres in size and includes offsite area to the north as well as the eastern portion of the project site. Stormwater runoff from Pre DA-2 flows via sheet flow and shallow concentrated flow into the SR-47 (FDOT) storm sewer system.

Refer to Figure 4 for a NRCS Soils Map. Refer to Figure 6 for more information on the pre-development watershed.

Post-Development Drainage

Post-Development drainage consists of two watersheds: Post-Development Watershed #1 (Post DA-1) and Post-Development Watershed #2 (Post DA-2). Post DA-1 comprises ± 3.29 acres including ± 0.93 acres of impervious area as well as a portion of offsite area. Stormwater runoff from Post DA-1 will be routed via sheet flow and shallow concentrated flow to a stormwater pipe conveyance system and into the proposed stormwater management facility (SMF-1). Post DA-2 comprises

±0.53 acres including ±0.02 acres of impervious area from a small portion of sidewalk. Stormwater runoff from Post DA-2 will be routed via sheet flow and shallow concentrated flow to the SR-47 (FDOT) storm sewer system as in the pre-development condition. The drainage area discharging to the FDOT system is greatly reduced in comparison to pre-development. Additionally, the CN of this area did not increase. Therefore, it is assumed that runoff rates and volumes have been reduced for each design storm event and these watersheds were not included in the drainage model.

SMF-1 is designed as a dry retention facility that will retain and infiltrate the difference between pre-development and post-development runoff volume. The top of bank for SMF-1 is set at EL. 160.00' while the bottom of pond is at EL. 157.00' with 4:1 side slope. The resulting total storage volume is ±49,744 cf. An underdrain system is proposed to lower the seasonal high-water table and meet recovery requirements. An outfall structure has been provided, which enables discharge to the existing depression beyond the western border of the site, mimicking the pre-development drainage patterns.

Refer to Figure 7 for more information on the post-development watershed.

Soils Information

The National Resource Conservation Service (NRCS) Soil Survey for Columbia County describes the near surface soil profile for the project area as *Blanton fine sand* (0 – 5% slopes) of hydrologic soil group rating of 'A', *Ichetucknee fine sand* (5 – 8% slopes) of hydrologic soil group rating of 'D', *Mascotte fine sand* of hydrologic soil group rating of 'B/D', *Pelham fine sand* (0 – 2% slopes) of hydrologic soil group rating of 'B/D'. Refer to Figure 4 for the NRCS Soils Map.

A site-specific soils investigation was conducted by GSE Engineering & Consulting, Inc. on October 11th, 2023 and the report was later revised on December 7th, 2023. Based on the Summary Report of Geotechnical Site Exploration, the following design parameters were recommended for the stormwater management facility calculations. Refer to Appendix C for further details.

SMF-1

- Average ground elevation of borings within proposed SMF-1 area: 156.70' (NAVD 88)
- Base elevation of effective or mobilized aquifer: 148.70' (NAVD 88)
- Average seasonal high groundwater table elevation: *152.99' (NAVD 88)
- Horizontal hydraulic conductivity: 10 feet per day (5 feet per day used in calculations)
- Unsaturated vertical infiltration rate: 10 feet per day (5 feet per day used in calculations)
- Specific yield (fillable porosity): 20%

*Seasonal high-water table established based on highest invert of the underdrain system.

Drainage Analysis

The proposed stormwater management system (SMF-1) has been designed to provide attenuation of the discharge rates and volumes for the 100 year – 1 hour, 100 year – 2 hour, 100 year – 4 hour, 100 year – 8 hour, and 100 year – 24 hour storm events. Since the portion of the site draining towards the FDOT ROW (Post DA-2) is minimal and has been reduced from its pre- development

condition (Pre DA-2), the FDOT storms were not modeled. SMF-1 should recover one-half of the total volume available within 7 days following the end of the design storm event, and the total volume must be recovered within 30 days. Additionally, the stormwater management system is designed to retain the water quality treatment volume and recover this volume within 72 hours.

Appendix A contains details and calculations as well as a section for routing results, recovery analysis, hydraulic calculations, and general drainage calculations.

Analysis Methodology

The drainage analysis was conducted using the computer program PONDS (v3.3) to generate runoff hydrographs and route the runoff hydrographs through the proposed stormwater system. The required storm events were analyzed using SRWMD rainfall amounts for the pre-development and post-development watersheds.

Unit Hydrograph Parameters

Unit hydrograph parameters required for the drainage analysis include run-off curve number (CN), time of concentration (Tc), and drainage area. Values used in the analysis are summarized as follows:

Pre-Development Watershed #1 (Pre DA-1):

Watershed Area =	2.03 ac.
Impervious Area (Existing) =	0.02 ac.
Woods (Good, Type 'A' Soil) =	0.47 ac.
Woods (Good, Type 'D' Soil) =	1.55 ac.

CN = 66
Tc = 29 min.

Post-Development Watershed #1 (Post DA-1):

Watershed Area =	3.29 ac.
Impervious Area =	0.93 ac.
Stormwater Management Facility =	0.45 ac.
Open Space (Good, Type 'A' Soil) =	1.29 ac.
Open Space (Good, Type 'D' Soil) =	0.62 ac.

CN = 72
Tc = 10 min.*

*Time of Concentration is assumed to be 10 minutes.

Pond Storage

Stage-storage values for the proposed stormwater management facilities are provided in Appendix A.

Water Quality Treatment Volume (WQTV)

Per SRWMD, the required water quality treatment volume (WQTV) required for a dry retention system is 2.0 inch of runoff over the drainage area, that must draw down within 72 hours. The WQTV calculations and modeling results are summarized in Table 1, additional details can be found in appendix A.

Table 1: Post Development Watershed Water Quality Treatment

Stormwater Management Facility	Required WQTV (cf)	Peak Elevation at WQTV (ft)	Time to Recover WQTV (hours)
SMF-1	12,483	157.87	< 6

Run-off and Facility Routing Results

The routing results for Pre DA-1 and Post DA-1 (SMF-1) are summarized in Tables 2 and 3. Table 2 displays the peak stage, freeboard, and recovery time for the analyzed storm events, while Table 3 displays the discharge rates and volumes for pre and post-development. Detailed results and calculations are provided in Appendix A.

Table 2: Pre DA-1 vs. Post DA-1 Routing Results

Storm Event	Peak Stage (ft.)	Freeboard (ft)	Full Volume Recovery (days after storm)
SRWMD 100YR-1HR	158.14	1.86	< 1
SRWMD 100YR-2HR	158.35	1.65	< 1
SRWMD 100YR-4HR	158.46	1.54	< 1
SRWMD 100YR-8HR	158.61	1.39	< 4
SRWMD 100YR-24HR	158.78	1.22	< 7

Table 3: Pre DA-1 vs. Post DA-1 Attenuation Results

Storm Event	Discharge Rates (cfs)			Discharge Volumes (cf)		
	Pre	Post	Change	Pre	Post	Change
SRWMD 100YR-1HR	4.27	0.31	-3.96	8,901	463	-8439
SRWMD 100YR-2HR	5.47	1.28	-4.19	13,242	4,512	-8730
SRWMD 100YR-4HR	6.46	1.93	-4.53	18,428	10,552	-7876
SRWMD 100YR-8HR	7.25	3.00	-4.25	25,727	17,171	-8556
SRWMD 100YR-24HR	6.67	4.28	-2.39	40,983	37,974	-3009

Summary and Conclusions

The proposed drainage system meets CLC, SRWMD, and FDOT criteria for dry retention system designs in a closed watershed. The criteria are as follows:

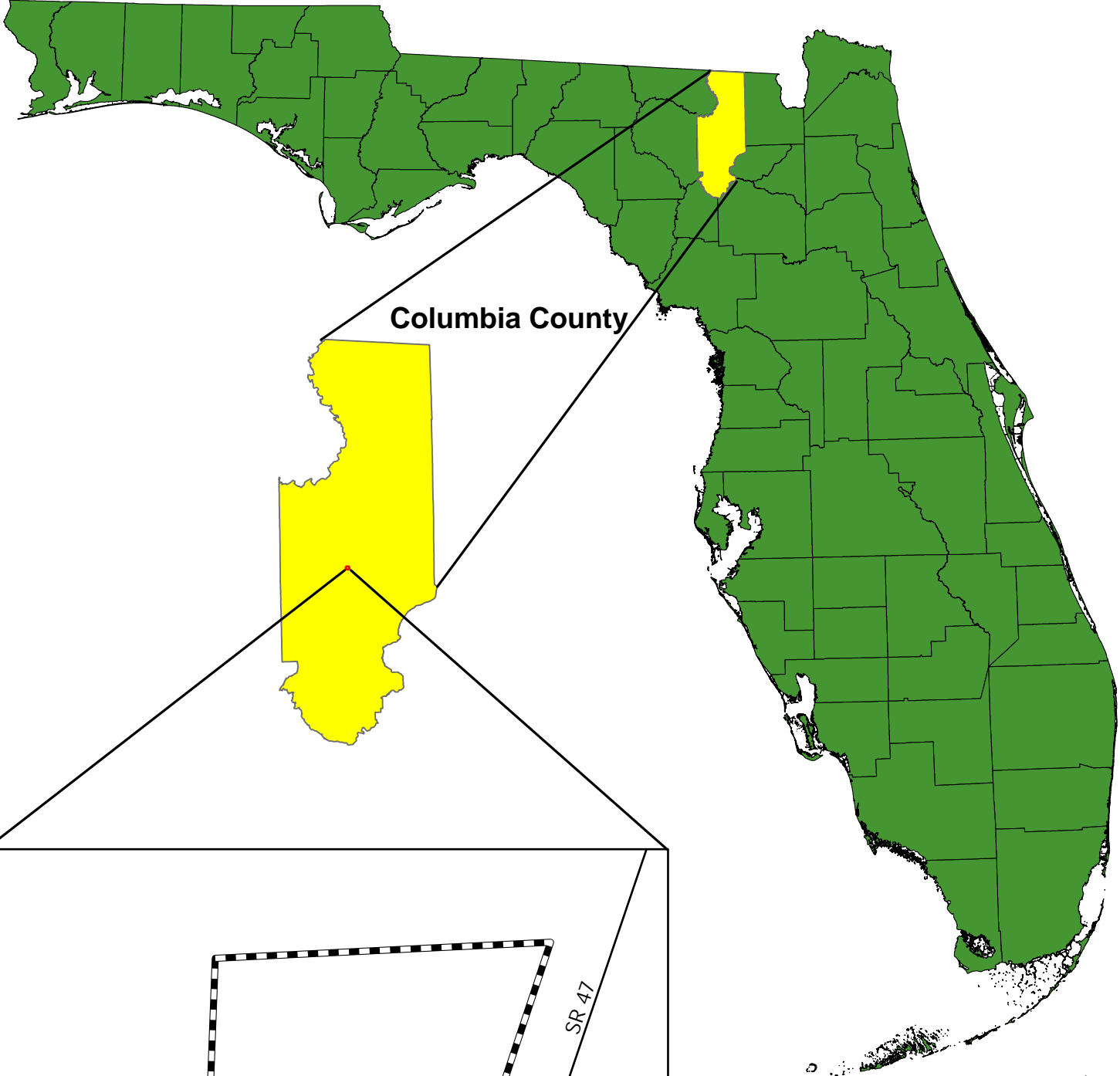
1. Provide Peak Discharge Rate Attenuation: SMF-1 attenuates the post-development peak discharge rates to be less than the pre-development peak discharge rates for:
 - a. The 100 year – 1 hour, 100 year – 2 hour, 100 year – 4 hour, 100 year – 8 hour, 100 year – 24 hour storm events (SRWMD).
 - b. The 3, 5, 10, 25, 50, and 100-year frequency analysis of the 1, 2, 4, 8, 24, 72, 168, and 240-hr storm events (FDOT).
2. Provide Peak Discharge Volume Attenuation: SMF-1 attenuates the post-development peak discharge volumes to be less than the pre-development peak discharge volume for:
 - a. The 100 year – 1 hour, 100 year – 2 hour, 100 year – 4 hour, 100 year – 8 hour, 100 year – 24 hour storm events (SRWMD).
 - b. The 3, 5, 10, 25, 50, and 100-year frequency analysis of the 1, 2, 4, 8, 24, 72, 168, and 240-hr storm events (FDOT).
3. Provide Water Quality Treatment Volume (WQTV): SMF-1 has been designed to retain the runoff from the first 2.0 inch of runoff from the design storm. WQTV is recovered within 72 hours. (SRWMD).
4. Freeboard: SMF-1 provides 1 foot of freeboard above the maximum stage in order to function properly during storms greater than the design storm (SRWMD).
5. Provide Volume Recovery: SMF-1 provides half of the total available volume within 7 days after the end of all storm events, and provides the total available volume within 30 days after the end of all storm events (SRWMD and FDOT).
6. Fencing: SMF-1 has the potential to hold water in excess of one (1) foot depth, therefore a (4) foot high fence and sufficient screening by trees and shrubbery is proposed. (CLC).

Based on the information provided, the project is eligible for approval by City of Lake City, SRWMD, and FDOT.

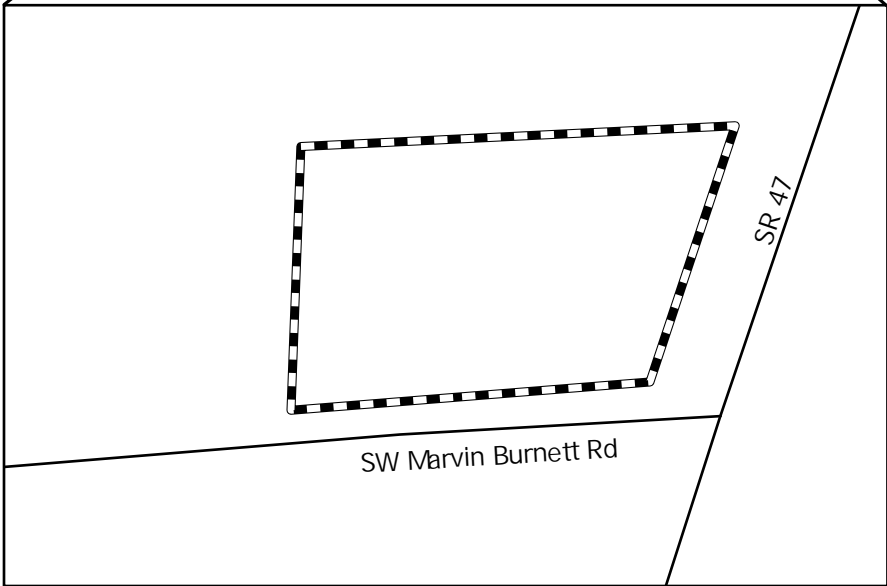
Figure 1

Project Location Map

Project Location Map CRS Marvin Burnett



Columbia County



SW Marvin Burnett Rd

SR 47



	11801 Research Drive, Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com
	est. 1988 FLO C 171

Figure 2

USGS Quadrangle Map



Project Site



11801 Research Drive,
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 **FLORIDA**
CA-5075

CRS Marvin Burnett Quad Map

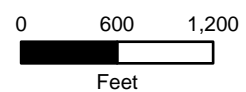
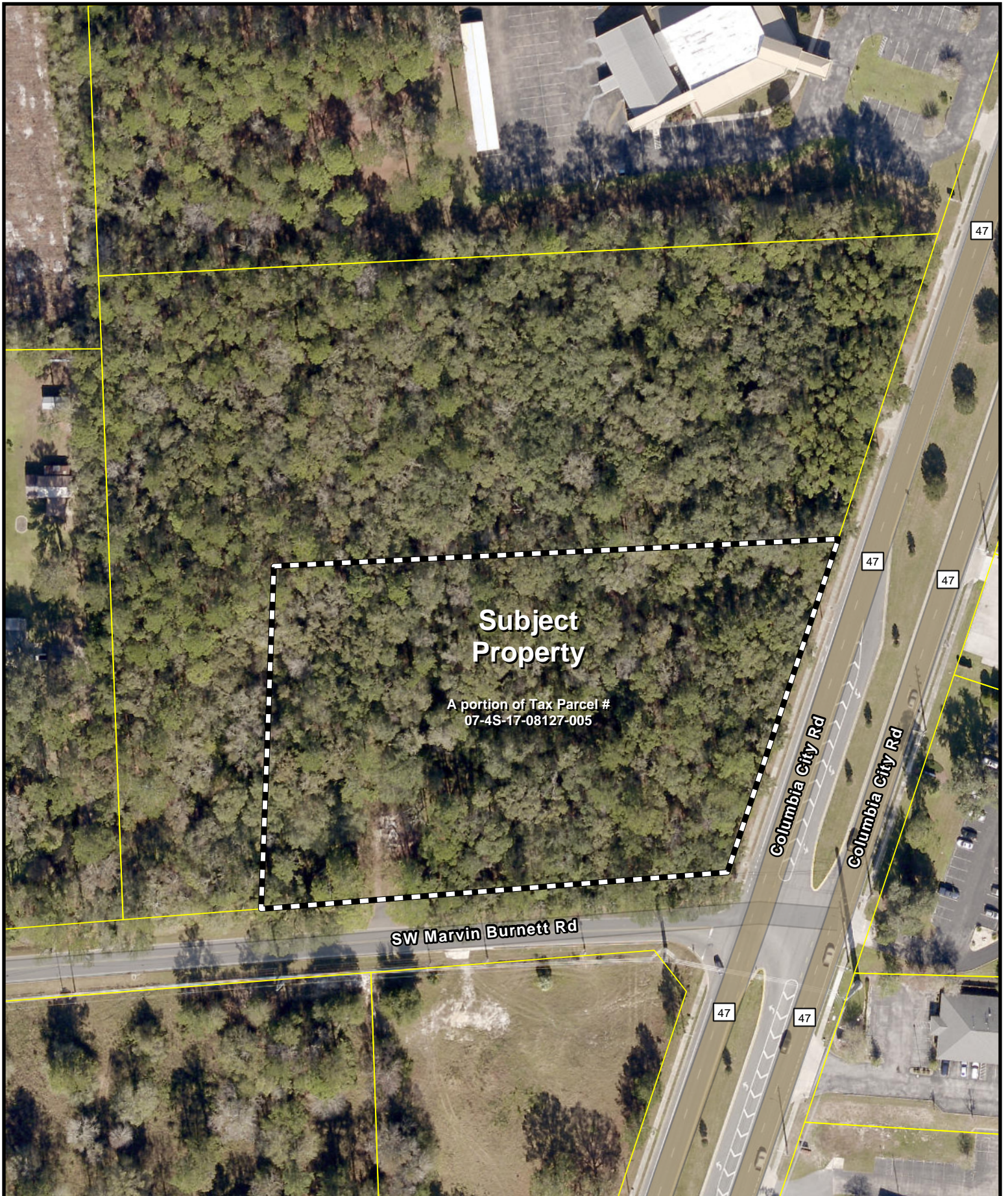


Figure 3

Aerial Map



Subject Property

A portion of Tax Parcel #
07-4S-17-08127-005

SW Marvin Burnett Rd

Columbia City Rd

Columbia City Rd



11801 Research Drive,
Alachua, Florida 32615
(352) 331-1976
www.chw-inc.com
est. 1988 **FLORIDA**
CA-5075

CRS Marvin Burnett Aerial Map

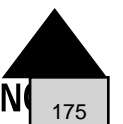
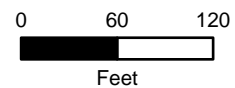
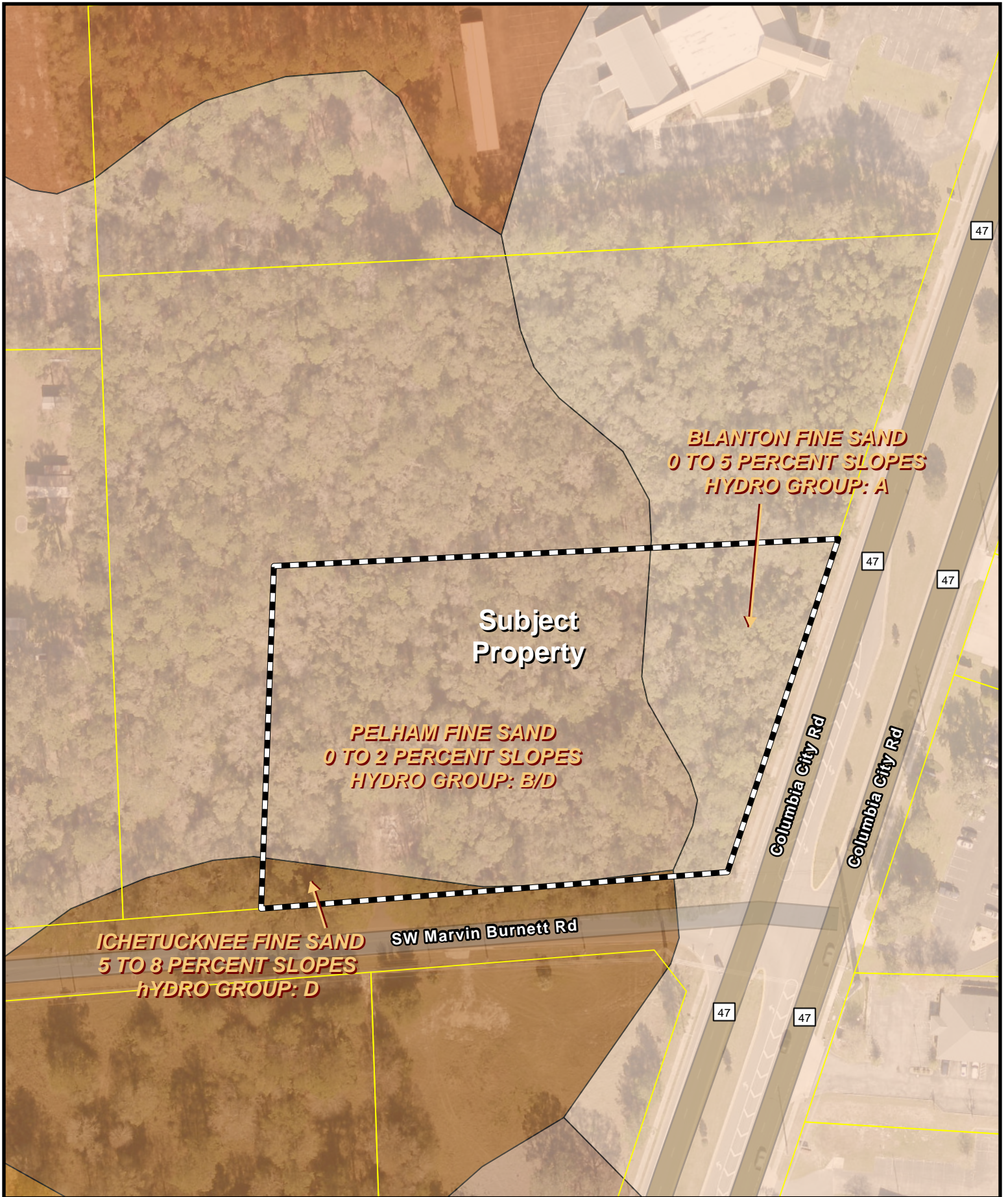


Figure 4

NRCS Soils Map



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est. 1988 **FLORIDA**
CA-5075

CRS Marvin Burnett NRCS Soils Map

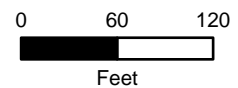
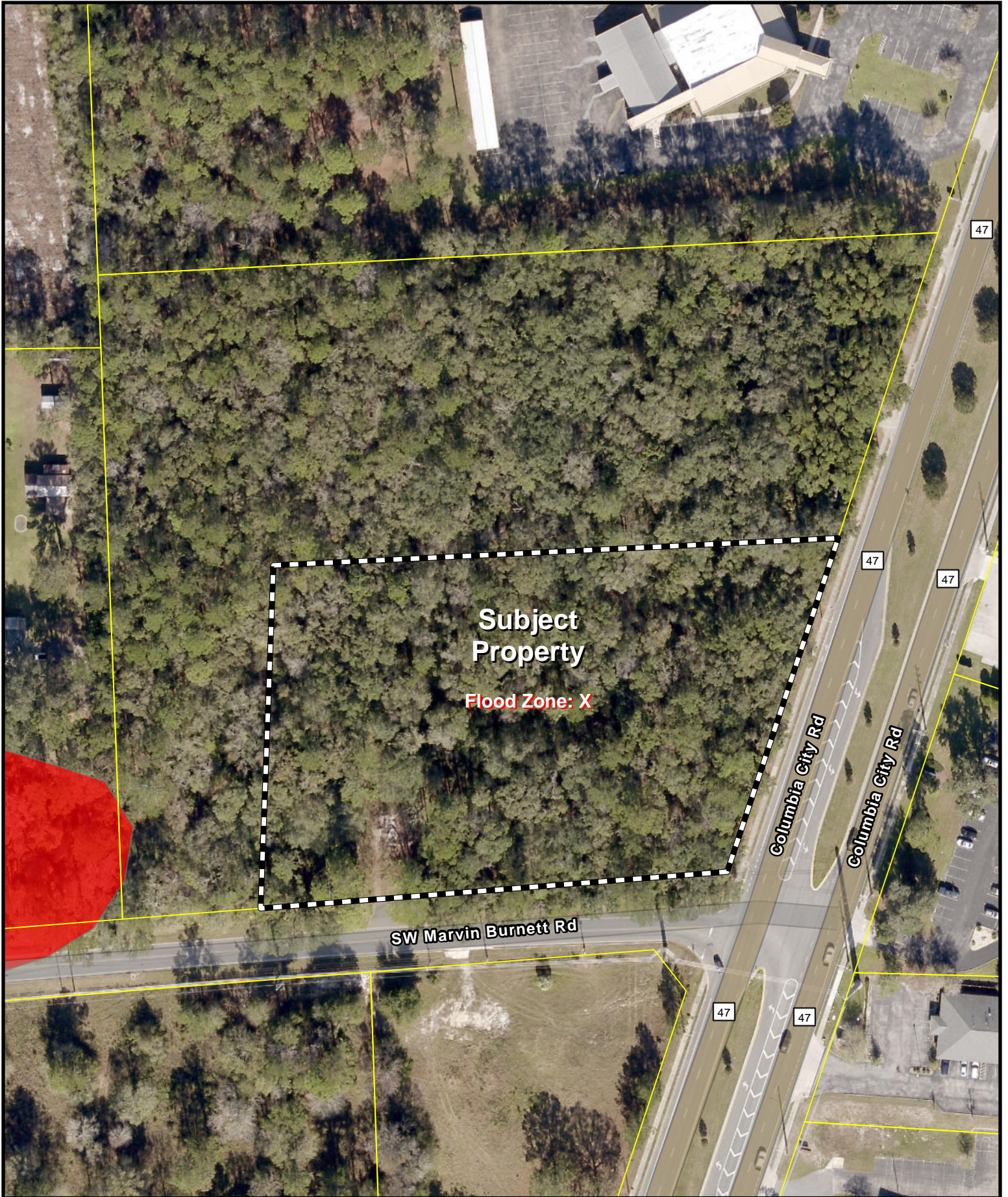


Figure 5

FEMA Flood Map



11801 Research Drive,
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www.chw-inc.com
est. 1988 **FLORIDA**
CA-5075

CRS Marvin Burnett FEMA Flood Map

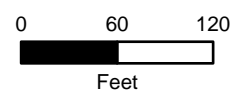


Figure 6

Pre-Development Drainage Map

LEGEND

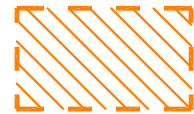
PRE-DEVELOPMENT WATERSHED 1 (PRE DA-1) BOUNDARY:



PRE-DEVELOPMENT WATERSHED 2 (PRE DA-2) BOUNDARY:



EXISTING IMPERVIOUS AREA TO BE REMOVED:



PRE-DEVELOPMENT DRAINAGE FLOW PATTERNS:



PRE-DEVELOPMENT TIME OF CONCENTRATION



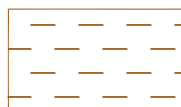
PRE-DEVELOPMENT DISCHARGE POINT:



TYPE 'A' SOILS



TYPE 'D' SOILS



NOTE: ALL SOILS ARE TYPE 'B/D' UNLESS OTHERWISE NOTED

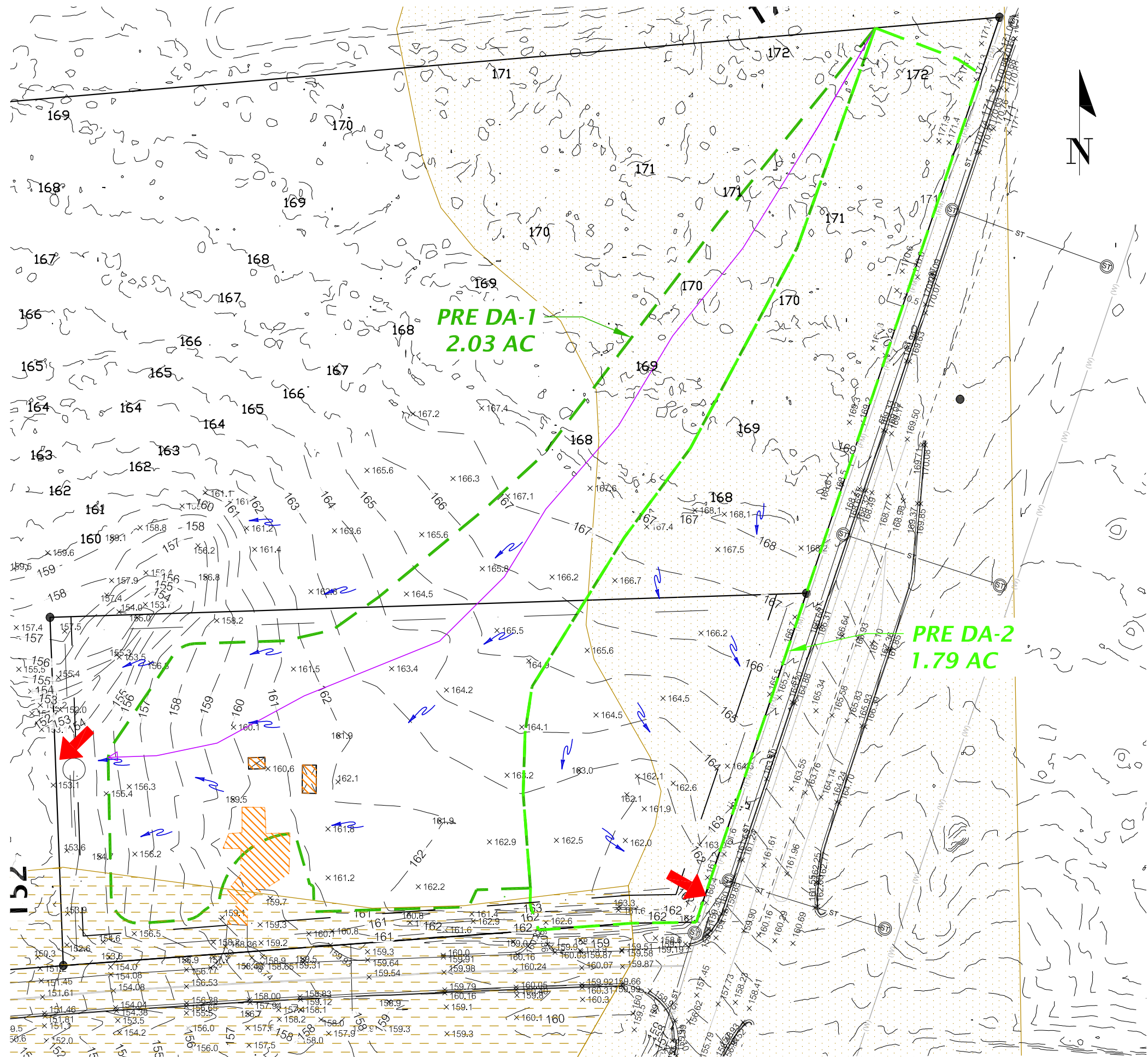


Figure 7

Post-Development Drainage Map

LEGEND

POST-DEVELOPMENT WATERSHED 1 (POST DA-1) BOUNDARY:



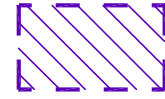
POST-DEVELOPMENT WATERSHED 2 (POST DA-2) BOUNDARY:



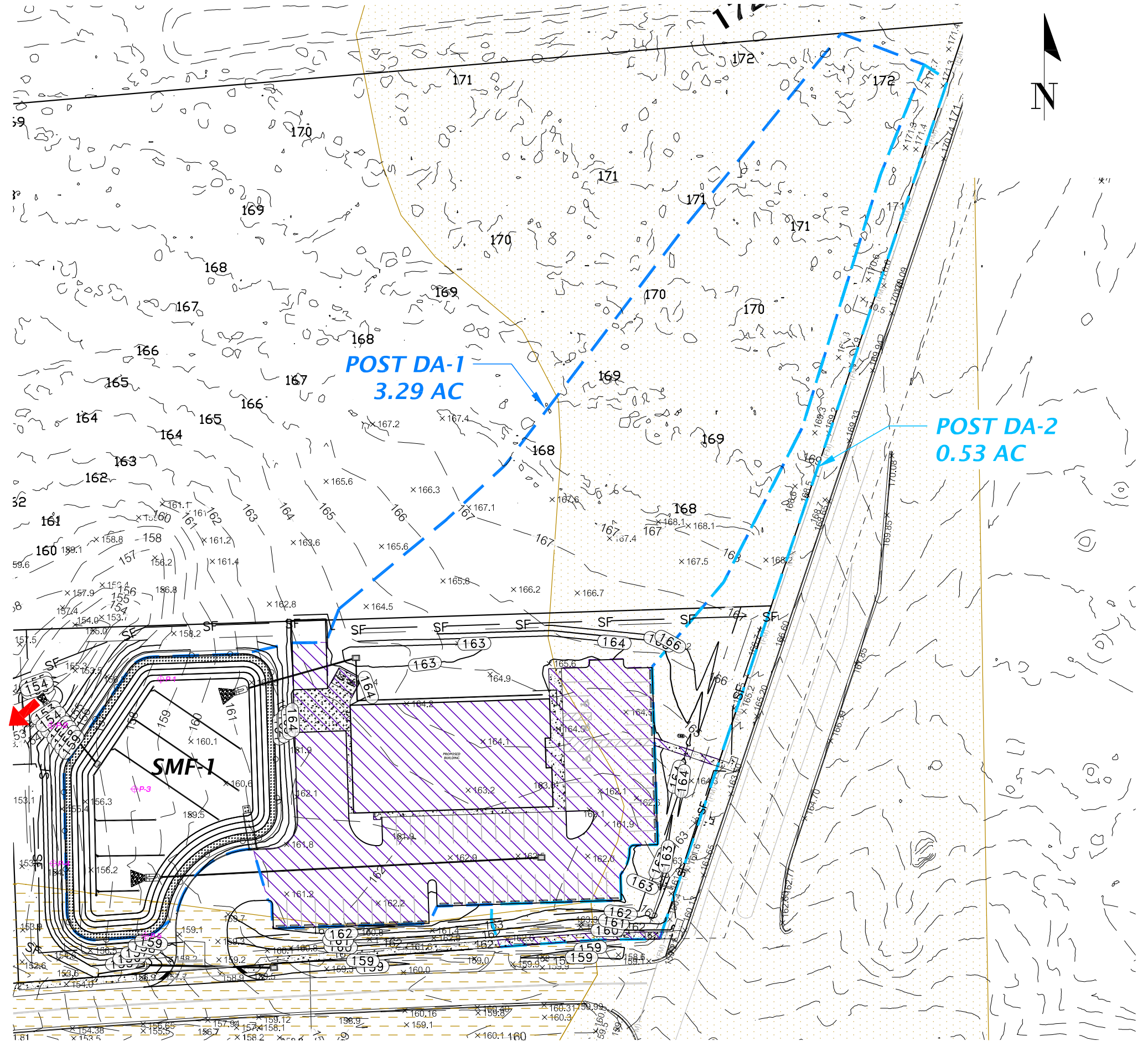
POST-DEVELOPMENT DISCHARGE POINT:



PROPOSED ONSITE IMPERVIOUS AREA:



SOIL BORING LOCATION:



11801 Research Drive
Alachua, Florida 32615
(352) 331-1976
www.ch2m.com
est. 1988 FLORIDA
CA-3075



SCALE: 1"=75'
VERTICAL SCALE
BASED ON ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION AND RECORDS

CLIENT: CONCEPT COMPANIES, LLC.
PROJECT: CES MARVIN BURNETT
SHEET TITLE: POST-DEVELOPMENT DRAINAGE EXHIBIT

TECHNICAL: CCM
DESIGNER: CCM
QUALITY CONTROL: RSO
PROJECT NUMBER: 23-0653

SHEET 183

Appendix A

Drainage Calculations and Computer Model Output

CURVE NUMBER CALCULATIONS:

Pre DA-1								
Total Area:	88,582	s.f.	2.03	ac.	CN	CN * Area	C	C * Area
Woods (Good, Group "A" Soil)	20,340	s.f.	0.47	ac.	30	610200	0.2	4068
Woods (Good, Group "D" Soil)	67,311	s.f.	1.55	ac.	77	5182947	0.2	13462.2
Existing Impervious Area	931	s.f.	0.02	ac.	98	91238	0.95	884.45

Weighted C: **0.21**
 Weighted CN: **66**
 Time of Concentration: **29** minutes

Post DA-1								
Total Area:	143,411	s.f.	3.29	ac.	CN	CN * Area	C	C * Area
Open Space (Good, Group "A" Soil)	56,007	s.f.	1.29	ac.	39	2184273	0.2	11201.4
Open Space (Good, Group "D" Soil)	27,102	s.f.	0.62	ac.	80	2168160	0.2	5420.4
Impervious Area	40,483	s.f.	0.93	ac.	98	3967334	0.95	38458.85
Stormwater Management Facility	19,819	s.f.	0.45	ac.	100	1981900	1	19819

Weighted C: **0.52**
 Weighted CN: **72**
 Time of Concentration: **10** minutes

WQTV CALCULATIONS: SMF-1 (Dry Retention)

SRWMD WQTV Calculation:		
Runoff from the first 2.0" of rainfall		
2" x Drainage Area:	23901.83	c.f.
C =	0.52	
SRWMD WQTV:	12,483	c.f.

Pre DA-2						
Total Area:	77,911	s.f.	1.79	ac.	CN	CN * Area
Woods (Good, Group "A" Soil)	62,699	s.f.	1.44	ac.	30	1880970
Woods (Good, Group "D" Soil)	15,212	s.f.	0.35	ac.	77	1171324

Weighted CN: **39**

Post DA-2						
Total Area:	23,090	s.f.	0.53	ac.	CN	CN * Area
Woods (Good, Group "A" Soil)	9,873	s.f.	0.23	ac.	30	296190
Open Space (Good, Group "A" Soil)	11,246	s.f.	0.26	ac.	39	438594
Open Space (Good, Group "D" Soil)	1,162	s.f.	0.03	ac.	80	92960
Impervious Area	809	s.f.	0.02	ac.	98	79282

Weighted CN: **39**

Tc CALCULATIONS:

BASIN	SHEET FLOW					SHALLOW CONCENTRATED FLOW					CHANNEL / PIPE FLOW							ID #	Tc (hr)	Tc (min)	
	Manning's n (-)	Flow Length L (ft)	2-Year 24-Hour Rain, P2 (in)	Land Slope s (ft/ft)	Tt1 (hr)	Paved or Unpvd. (P or U)	Flow Length L (ft)	Water-course Slope, s (ft/ft)	Avg. Velocity V (ft/s)	Tt2 (hr)	Cross-Section Area, a (ft ²)	Wetted Perim. Pw (ft)	Hydraulic Radius r (ft)	Pipe Slope s (ft/ft)	Manning n (-)	Avg. Velocity V (ft/s)	Flow Length L (ft)				Tt3 (hr)
Pre DA-1	0.4	100	4.2	0.011	0.40	U	694	0.023	2.44	0.08	-	-	-	-	-	-	-	-	PRE DA-1	0.48	29

If Tc less than 10 minutes, 10 minutes was assumed per FDOT standards

TIME OF CONCENTRATION VALUES DETERMINED USING TR-55 METHODOLOGY.

SHEET FLOW:

$$Tt = \frac{0.007 (nL)^{0.8}}{(P2)^{0.5} s^{0.4}}$$

SHALLOW CONCENTRATED FLOW:

- For slopes < 0.005 ft/ft
 Unpaved V=16.1345 s^{0.5}
 Paved V=20.3282 s^{0.5}

- For slopes > 0.005 ft/ft
 Velocity per Figure 3-1, TR-55

CHANNEL/PIPE FLOW:

$$V = \frac{1.49r^{2/3}s^{1/2}}{n}$$

$$Tt = \frac{L}{3600 V}$$

STAGE-STORAGE CALCULATIONS:

Post-Development: SMF-1 Stage-Storage Relationship				
ELEV.	AREA (SF)	AREA (AC.)	STORAGE (CF)	STORAGE VOLUME (AC-FT)
157.00	13,469	0.3092	0	0.00
158.00	15,494	0.3557	14,482	0.33
159.00	17,606	0.4042	31,032	0.71
160.00	19,819	0.4550	49,744	1.14

Geotech Borings	
Boring #	Ex. Grade EL.
P-1	158.50
P-2	154.00
P-3	158.00
P-4	154.75
P-5	158.25
Avg.	156.70

WQTV =	12,483 cf	SHWT =	*152.99	ft	*Established based on Invert of Underdrain System
WQTV EL. =	157.86 ft	Confining Layer =	148.70	ft	
		Kv =	5.00	ft/day	
Weir Elevation =	158.00 ft	Kh =	5.00	ft/day	
		Porosity =	20	%	
Eq. Length =	200 ft				
Eq. Width =	83 ft	Depth =	3.00	ft	
		Perimeter =	566	ft	

PIPE CALCS: CRS Marvin Burnett (23-0653)

Structure No.		Invert Elev.		Length (ft)	Slope (ft/foot)	Dia. (in)	C	Tc (min)	i (in/hr)	A (sf)	A (ac)	Q (cfs) Actual		Q Allowed (cfs)	Pipe A (sq-ft)	V - Full Flow (fps)	Pipe R (ft)	Minor Loss Coeff.	Minor Loss (ft)	Loss (ft)	HGL		ToG/ EoP	F.B. (in)
From	To	U.S.	D.S.									Inc	Cumul								U.S.	D.S.		
S-2	S-1	158.38	157.00	277	0.0050	15	0.95	10	6.2	18163	0.42	2.5	2.5	4.94	1.2	4.0	0.31	0.5	0.03	0.3	158.51	158.14	162.23	45
C/O-1	C/O-2	160.61	159.96	65	0.0100	12	0.95	10	6.2	3547	0.08	0.5	0.5	3.86	0.8	4.9	0.25	0.5	0.00	0.0	160.93	160.91	163.72	34
C/O-2	C/O-3	159.96	159.30	65	0.0102	12	0.95	10	6.2	3547	0.08	0.5	1.0	3.89	0.8	5.0	0.25	0.5	0.01	0.0	160.91	160.86	163.85	35
C/O-3	S-4	159.30	159.00	30	0.0100	12	0.95	10	6.2	3547	0.08	0.5	1.4	3.86	0.8	4.9	0.25	0.8	0.04	0.0	160.86	160.78	164.03	38
S-4	S-3	159.00	157.00	86	0.0233	15	0.80	10	6.2	76339	1.75	8.7	10.1	10.67	1.2	8.7	0.31	0.8	0.85	1.8	160.78	158.14	162.12	16

1. ToG = Top of Grate/EoP = Edge of Pavement
2. FB = Free Board
3. Rainfall intensity is based on the FDOT Zone 3 Rainfall Intensity-Duration-Frequency curve for the 3 year - 10 min storm event (6.2 inches/hr)
4. The tailwater condition was set at the peak stage for the 100 year - 1 hour storm event of the receiving SMF.

Pre-Development Model

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Project Data

Project Name: CRS Marvin Burnett
Simulation Description: Pre-Development
Project Number: 23-0653
Engineer : Jarrett Pearson
Supervising Engineer: Cole Menhennett
Date: 12-28-2023

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Scenario Input Data

Scenario 1 :: SRWMD 100YR-1HR

Hydrograph Type: Inline SCS
 • **Modflow Routing:** **Not routed**
 Repetitions: 1

Basin Area (acres) 2.030
 Time Of Concentration (minutes) 29.0
 DCIA (%) 0.0
 Curve Number 66
 Design Rainfall Depth (inches) 4.2
 Design Rainfall Duration (hours) 1.0
 Shape Factor UHG 484
 Rainfall Distribution SCS Type II Florida Modified

Initial ground water level (ft datum) 154.70 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.250	6.250	12.250	18.250	24.250
0.500	6.500	12.500	18.500	24.500
0.750	6.750	12.750	18.750	24.750
1.000	7.000	13.000	19.000	25.000
1.250	7.250	13.250	19.250	25.250
1.500	7.500	13.500	19.500	25.500
1.750	7.750	13.750	19.750	25.750
2.000	8.000	14.000	20.000	26.000
2.250	8.250	14.250	20.250	26.250
2.500	8.500	14.500	20.500	26.500
2.750	8.750	14.750	20.750	26.750
3.000	9.000	15.000	21.000	27.000
3.250	9.250	15.250	21.250	27.250
3.500	9.500	15.500	21.500	27.500
3.750	9.750	15.750	21.750	27.750
4.000	10.000	16.000	22.000	28.000
4.250	10.250	16.250	22.250	28.250
4.500	10.500	16.500	22.500	28.500
4.750	10.750	16.750	22.750	28.750
5.000	11.000	17.000	23.000	29.000
5.250	11.250	17.250	23.250	29.250
5.500	11.500	17.500	23.500	29.500
5.750	11.750	17.750	23.750	29.750
6.000	12.000	18.000	24.000	30.000

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Scenario Input Data (cont'd.)

Scenario 2 :: SRWMD 100YR-2HR

Hydrograph Type: Inline SCS
 • **Modflow Routing:** **Not routed**
 Repetitions: 1

Basin Area (acres) 2.030
 Time Of Concentration (minutes) 29.0
 DCIA (%) 0.0
 Curve Number 66
 Design Rainfall Depth (inches) 5.1
 Design Rainfall Duration (hours) 2.0
 Shape Factor UHG 484
 Rainfall Distribution SCS Type II Florida Modified

Initial ground water level (ft datum) 154.70 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.250	6.250	12.250	18.250	24.250
0.500	6.500	12.500	18.500	24.500
0.750	6.750	12.750	18.750	24.750
1.000	7.000	13.000	19.000	25.000
1.250	7.250	13.250	19.250	25.250
1.500	7.500	13.500	19.500	25.500
1.750	7.750	13.750	19.750	25.750
2.000	8.000	14.000	20.000	26.000
2.250	8.250	14.250	20.250	26.250
2.500	8.500	14.500	20.500	26.500
2.750	8.750	14.750	20.750	26.750
3.000	9.000	15.000	21.000	27.000
3.250	9.250	15.250	21.250	27.250
3.500	9.500	15.500	21.500	27.500
3.750	9.750	15.750	21.750	27.750
4.000	10.000	16.000	22.000	28.000
4.250	10.250	16.250	22.250	28.250
4.500	10.500	16.500	22.500	28.500
4.750	10.750	16.750	22.750	28.750
5.000	11.000	17.000	23.000	29.000
5.250	11.250	17.250	23.250	29.250
5.500	11.500	17.500	23.500	29.500
5.750	11.750	17.750	23.750	29.750
6.000	12.000	18.000	24.000	30.000

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Scenario Input Data (cont'd.)

Scenario 3 :: SRWMD 100YR-4HR

Hydrograph Type: Inline SCS
 • **Modflow Routing:** **Not routed**
 Repetitions: 1

Basin Area (acres) 2.030
 Time Of Concentration (minutes) 29.0
 DCIA (%) 0.0
 Curve Number 66
 Design Rainfall Depth (inches) 6.1
 Design Rainfall Duration (hours) 4.0
 Shape Factor UHG 484
 Rainfall Distribution SCS Type II Florida Modified

Initial ground water level (ft datum) 154.70 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.250	6.250	12.250	18.250	24.250
0.500	6.500	12.500	18.500	24.500
0.750	6.750	12.750	18.750	24.750
1.000	7.000	13.000	19.000	25.000
1.250	7.250	13.250	19.250	25.250
1.500	7.500	13.500	19.500	25.500
1.750	7.750	13.750	19.750	25.750
2.000	8.000	14.000	20.000	26.000
2.250	8.250	14.250	20.250	26.250
2.500	8.500	14.500	20.500	26.500
2.750	8.750	14.750	20.750	26.750
3.000	9.000	15.000	21.000	27.000
3.250	9.250	15.250	21.250	27.250
3.500	9.500	15.500	21.500	27.500
3.750	9.750	15.750	21.750	27.750
4.000	10.000	16.000	22.000	28.000
4.250	10.250	16.250	22.250	28.250
4.500	10.500	16.500	22.500	28.500
4.750	10.750	16.750	22.750	28.750
5.000	11.000	17.000	23.000	29.000
5.250	11.250	17.250	23.250	29.250
5.500	11.500	17.500	23.500	29.500
5.750	11.750	17.750	23.750	29.750
6.000	12.000	18.000	24.000	30.000

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Scenario Input Data (cont'd.)

Scenario 4 :: SRWMD 100YR-8HR

Hydrograph Type: Inline SCS
 • **Modflow Routing:** **Not routed**
 Repetitions: 1

Basin Area (acres) 2.030
 Time Of Concentration (minutes) 29.0
 DCIA (%) 0.0
 Curve Number 66
 Design Rainfall Depth (inches) 7.4
 Design Rainfall Duration (hours) 8.0
 Shape Factor UHG 484
 Rainfall Distribution SCS Type II Florida Modified

Initial ground water level (ft datum) 154.70 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.250	6.250	12.250	18.250	24.250
0.500	6.500	12.500	18.500	24.500
0.750	6.750	12.750	18.750	24.750
1.000	7.000	13.000	19.000	25.000
1.250	7.250	13.250	19.250	25.250
1.500	7.500	13.500	19.500	25.500
1.750	7.750	13.750	19.750	25.750
2.000	8.000	14.000	20.000	26.000
2.250	8.250	14.250	20.250	26.250
2.500	8.500	14.500	20.500	26.500
2.750	8.750	14.750	20.750	26.750
3.000	9.000	15.000	21.000	27.000
3.250	9.250	15.250	21.250	27.250
3.500	9.500	15.500	21.500	27.500
3.750	9.750	15.750	21.750	27.750
4.000	10.000	16.000	22.000	28.000
4.250	10.250	16.250	22.250	28.250
4.500	10.500	16.500	22.500	28.500
4.750	10.750	16.750	22.750	28.750
5.000	11.000	17.000	23.000	29.000
5.250	11.250	17.250	23.250	29.250
5.500	11.500	17.500	23.500	29.500
5.750	11.750	17.750	23.750	29.750
6.000	12.000	18.000	24.000	30.000

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Scenario Input Data (cont'd.)

Scenario 5 :: SRWMD 100YR-24HR

Hydrograph Type: Inline SCS
 • **Modflow Routing:** **Not routed**
 Repetitions: 1

Basin Area (acres) 2.030
 Time Of Concentration (minutes) 29.0
 DCIA (%) 0.0
 Curve Number 66
 Design Rainfall Depth (inches) 9.8
 Design Rainfall Duration (hours) 24.0
 Shape Factor UHG 484
 Rainfall Distribution SCS Type II Florida Modified

Initial ground water level (ft datum) 154.70 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.250	6.250	12.250	18.250	24.250
0.500	6.500	12.500	18.500	24.500
0.750	6.750	12.750	18.750	24.750
1.000	7.000	13.000	19.000	25.000
1.250	7.250	13.250	19.250	25.250
1.500	7.500	13.500	19.500	25.500
1.750	7.750	13.750	19.750	25.750
2.000	8.000	14.000	20.000	26.000
2.250	8.250	14.250	20.250	26.250
2.500	8.500	14.500	20.500	26.500
2.750	8.750	14.750	20.750	26.750
3.000	9.000	15.000	21.000	27.000
3.250	9.250	15.250	21.250	27.250
3.500	9.500	15.500	21.500	27.500
3.750	9.750	15.750	21.750	27.750
4.000	10.000	16.000	22.000	28.000
4.250	10.250	16.250	22.250	28.250
4.500	10.500	16.500	22.500	28.500
4.750	10.750	16.750	22.750	28.750
5.000	11.000	17.000	23.000	29.000
5.250	11.250	17.250	23.250	29.250
5.500	11.500	17.500	23.500	29.500
5.750	11.750	17.750	23.750	29.750
6.000	12.000	18.000	24.000	30.000

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Sort-By-Category Report

Scenarios Considered: 1 to 5

Discharge - Rate - Maximum Positive

Rank	Scenario Number	Maximum Positive Discharge Rate (ft ³ /s)	Time (hours)	Description
1	4	7.25	4.25	SRWMD 100YR-8HR
2	5	6.67	12.12	SRWMD 100YR-24HR
3	3	6.46	2.32	SRWMD 100YR-4HR
4	2	5.47	1.35	SRWMD 100YR-2HR
5	1	4.27	0.84	SRWMD 100YR-1HR

Discharge - Cumulative Volume - Maximum Positive

Rank	Scenario Number	Maximum Positive Cumulative Discharge Volume (ft ³)	Time (hours)	Description
1	5	40983.17	25.58	SRWMD 100YR-24HR
2	4	25726.74	9.60	SRWMD 100YR-8HR
3	3	18428.31	5.54	SRWMD 100YR-4HR
4	2	13241.67	3.61	SRWMD 100YR-2HR
5	1	8901.35	2.58	SRWMD 100YR-1HR

Post-Development Model

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Project Data

Project Name: CRS Marvin Burnett
Simulation Description: Post-Development DA-1
Project Number: 23-0653
Engineer : Jarrett Pearson
Supervising Engineer: Cole Menhennett
Date: 01-04-2024

Aquifer Data

Base Of Aquifer Elevation, [B] (ft datum): 148.70
Water Table Elevation, [WT] (ft datum): 152.99
Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day): 5.00
Fillable Porosity, [n] (%): 20.00
Unsaturated Vertical Infiltration Rate, [Iv] (ft/day): 5.0
Maximum Area For Unsaturated Infiltration, [Av] (ft²): 19819.0

Geometry Data

Equivalent Pond Length, [L] (ft): 200.0
Equivalent Pond Width, [W] (ft): 83.0
Ground water mound is expected to intersect the pond bottom

Stage vs Area Data

Stage (ft datum)	Area (ft ²)
157.00	13469.0
158.00	15494.0
159.00	17606.0
160.00	19819.0

Discharge Structures

Discharge Structure #1 is active as weir

Structure Parameters

Description: WQTV

Weir elevation, (ft datum):	158.00
Weir coefficient:	3.13
Weir length, (ft):	2
Weir exponent:	1.5

Tailwater - disabled, free discharge

Discharge Structure #2 is inactive

Discharge Structure #3 is inactive

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Scenario Input Data

Scenario 1 :: SRWMD 100YR-1HR

Hydrograph Type: Inline SCS
 Modflow Routing: Routed with infiltration
 Repetitions: 1

Basin Area (acres) 3.290
 Time Of Concentration (minutes) 10.0
 DCIA (%) 0.0
 Curve Number 72
 Design Rainfall Depth (inches) 4.2
 Design Rainfall Duration (hours) 1.0
 Shape Factor UHG 484
 Rainfall Distribution SCS Type II Florida Modified

Initial ground water level (ft datum) 152.99 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.250	6.250	12.250	18.250	24.250
0.500	6.500	12.500	18.500	24.500
0.750	6.750	12.750	18.750	24.750
1.000	7.000	13.000	19.000	25.000
1.250	7.250	13.250	19.250	25.250
1.500	7.500	13.500	19.500	25.500
1.750	7.750	13.750	19.750	25.750
2.000	8.000	14.000	20.000	26.000
2.250	8.250	14.250	20.250	26.250
2.500	8.500	14.500	20.500	26.500
2.750	8.750	14.750	20.750	26.750
3.000	9.000	15.000	21.000	27.000
3.250	9.250	15.250	21.250	27.250
3.500	9.500	15.500	21.500	27.500
3.750	9.750	15.750	21.750	27.750
4.000	10.000	16.000	22.000	28.000
4.250	10.250	16.250	22.250	28.250
4.500	10.500	16.500	22.500	28.500
4.750	10.750	16.750	22.750	28.750
5.000	11.000	17.000	23.000	29.000
5.250	11.250	17.250	23.250	29.250
5.500	11.500	17.500	23.500	29.500
5.750	11.750	17.750	23.750	29.750
6.000	12.000	18.000	24.000	30.000

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Scenario Input Data (cont'd.)

Scenario 2 :: SRWMD 100YR-2HR

Hydrograph Type: Inline SCS
 Modflow Routing: Routed with infiltration
 Repetitions: 1

Basin Area (acres) 3.290
 Time Of Concentration (minutes) 10.0
 DCIA (%) 0.0
 Curve Number 72
 Design Rainfall Depth (inches) 5.1
 Design Rainfall Duration (hours) 2.0
 Shape Factor UHG 484
 Rainfall Distribution SCS Type II Florida Modified

Initial ground water level (ft datum) 152.99 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.250	6.250	12.250	18.250	24.250
0.500	6.500	12.500	18.500	24.500
0.750	6.750	12.750	18.750	24.750
1.000	7.000	13.000	19.000	25.000
1.250	7.250	13.250	19.250	25.250
1.500	7.500	13.500	19.500	25.500
1.750	7.750	13.750	19.750	25.750
2.000	8.000	14.000	20.000	26.000
2.250	8.250	14.250	20.250	26.250
2.500	8.500	14.500	20.500	26.500
2.750	8.750	14.750	20.750	26.750
3.000	9.000	15.000	21.000	27.000
3.250	9.250	15.250	21.250	27.250
3.500	9.500	15.500	21.500	27.500
3.750	9.750	15.750	21.750	27.750
4.000	10.000	16.000	22.000	28.000
4.250	10.250	16.250	22.250	28.250
4.500	10.500	16.500	22.500	28.500
4.750	10.750	16.750	22.750	28.750
5.000	11.000	17.000	23.000	29.000
5.250	11.250	17.250	23.250	29.250
5.500	11.500	17.500	23.500	29.500
5.750	11.750	17.750	23.750	29.750
6.000	12.000	18.000	24.000	30.000

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Scenario Input Data (cont'd.)

Scenario 3 :: SRWMD 100YR-4HR

Hydrograph Type: Inline SCS
 Modflow Routing: Routed with infiltration
 Repetitions: 1

Basin Area (acres) 3.290
 Time Of Concentration (minutes) 10.0
 DCIA (%) 0.0
 Curve Number 72
 Design Rainfall Depth (inches) 6.1
 Design Rainfall Duration (hours) 4.0
 Shape Factor UHG 484
 Rainfall Distribution SCS Type II Florida Modified

Initial ground water level (ft datum) 152.99 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.250	6.250	12.250	18.250	24.250
0.500	6.500	12.500	18.500	24.500
0.750	6.750	12.750	18.750	24.750
1.000	7.000	13.000	19.000	25.000
1.250	7.250	13.250	19.250	25.250
1.500	7.500	13.500	19.500	25.500
1.750	7.750	13.750	19.750	25.750
2.000	8.000	14.000	20.000	26.000
2.250	8.250	14.250	20.250	26.250
2.500	8.500	14.500	20.500	26.500
2.750	8.750	14.750	20.750	26.750
3.000	9.000	15.000	21.000	27.000
3.250	9.250	15.250	21.250	27.250
3.500	9.500	15.500	21.500	27.500
3.750	9.750	15.750	21.750	27.750
4.000	10.000	16.000	22.000	28.000
4.250	10.250	16.250	22.250	28.250
4.500	10.500	16.500	22.500	28.500
4.750	10.750	16.750	22.750	28.750
5.000	11.000	17.000	23.000	29.000
5.250	11.250	17.250	23.250	29.250
5.500	11.500	17.500	23.500	29.500
5.750	11.750	17.750	23.750	29.750
6.000	12.000	18.000	24.000	30.000

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Scenario Input Data (cont'd.)

Scenario 4 :: SRWMD 100YR-8HR

Hydrograph Type: Inline SCS
 Modflow Routing: Routed with infiltration
 Repetitions: 1

Basin Area (acres) 3.290
 Time Of Concentration (minutes) 10.0
 DCIA (%) 0.0
 Curve Number 72
 Design Rainfall Depth (inches) 7.4
 Design Rainfall Duration (hours) 8.0
 Shape Factor UHG 484
 Rainfall Distribution SCS Type II Florida Modified

Initial ground water level (ft datum) 152.99 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.250	6.250	12.250	18.250	24.250
0.500	6.500	12.500	18.500	24.500
0.750	6.750	12.750	18.750	24.750
1.000	7.000	13.000	19.000	25.000
1.250	7.250	13.250	19.250	25.250
1.500	7.500	13.500	19.500	25.500
1.750	7.750	13.750	19.750	25.750
2.000	8.000	14.000	20.000	26.000
2.250	8.250	14.250	20.250	26.250
2.500	8.500	14.500	20.500	26.500
2.750	8.750	14.750	20.750	26.750
3.000	9.000	15.000	21.000	27.000
3.250	9.250	15.250	21.250	27.250
3.500	9.500	15.500	21.500	27.500
3.750	9.750	15.750	21.750	27.750
4.000	10.000	16.000	22.000	28.000
4.250	10.250	16.250	22.250	28.250
4.500	10.500	16.500	22.500	28.500
4.750	10.750	16.750	22.750	28.750
5.000	11.000	17.000	23.000	29.000
5.250	11.250	17.250	23.250	29.250
5.500	11.500	17.500	23.500	29.500
5.750	11.750	17.750	23.750	29.750
6.000	12.000	18.000	24.000	30.000

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Retention Pond Recovery - Refined Method
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Scenario Input Data (cont'd.)

Scenario 5 :: SRWMD 100YR-24HR

Hydrograph Type: Inline SCS
 Modflow Routing: Routed with infiltration
 Repetitions: 1

Basin Area (acres) 3.290
 Time Of Concentration (minutes) 10.0
 DCIA (%) 0.0
 Curve Number 72
 Design Rainfall Depth (inches) 9.8
 Design Rainfall Duration (hours) 24.0
 Shape Factor UHG 484
 Rainfall Distribution SCS Type II Florida Modified

Initial ground water level (ft datum) 152.99 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
0.250	6.250	12.250	18.250	24.250
0.500	6.500	12.500	18.500	24.500
0.750	6.750	12.750	18.750	24.750
1.000	7.000	13.000	19.000	25.000
1.250	7.250	13.250	19.250	25.250
1.500	7.500	13.500	19.500	25.500
1.750	7.750	13.750	19.750	25.750
2.000	8.000	14.000	20.000	26.000
2.250	8.250	14.250	20.250	26.250
2.500	8.500	14.500	20.500	26.500
2.750	8.750	14.750	20.750	26.750
3.000	9.000	15.000	21.000	27.000
3.250	9.250	15.250	21.250	27.250
3.500	9.500	15.500	21.500	27.500
3.750	9.750	15.750	21.750	27.750
4.000	10.000	16.000	22.000	28.000
4.250	10.250	16.250	22.250	28.250
4.500	10.500	16.500	22.500	28.500
4.750	10.750	16.750	22.750	28.750
5.000	11.000	17.000	23.000	29.000
5.250	11.250	17.250	23.250	29.250
5.500	11.500	17.500	23.500	29.500
5.750	11.750	17.750	23.750	29.750
6.000	12.000	18.000	24.000	30.000

Scenario 6 :: WQTV

Hydrograph Type: Slug Load
 Modflow Routing: Routed with infiltration

Treatment Volume (ft³) 12483

Initial ground water level (ft datum) 152.99 (default)

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Scenario Input Data (cont'd.)

Scenario 6 (cont'd.) :: Slug Load :: WQTV

<u>Time After Storm Event (days)</u>	<u>Time After Storm Event (days)</u>
0.100	2.000
0.250	2.500
0.500	3.000
1.000	3.500
1.500	4.000

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Sort-By-Category Report

Scenarios Considered: 1 to 6

Stage - Maximum

Rank	Scenario Number	Maximum Stage (ft datum)	Time (hours)	Description
1	5	158.78	12.58	SRWMD 100YR-24HR
2	4	158.61	4.47	SRWMD 100YR-8HR
3	3	158.46	2.64	SRWMD 100YR-4HR
4	2	158.35	1.89	SRWMD 100YR-2HR
5	1	158.14	1.13	SRWMD 100YR-1HR
6	6	157.87	0.00	WQTV

Discharge - Rate - Maximum Positive

Rank	Scenario Number	Maximum Positive Discharge Rate (ft ³ /s)	Time (hours)	Description
1	5	4.28	12.58	SRWMD 100YR-24HR
2	4	3.00	4.47	SRWMD 100YR-8HR
3	3	1.93	2.64	SRWMD 100YR-4HR
4	2	1.28	1.89	SRWMD 100YR-2HR
5	1	0.31	1.13	SRWMD 100YR-1HR
6	6	None	N.A.	WQTV

Discharge - Cumulative Volume - Maximum Positive

Rank	Scenario Number	Maximum Positive Cumulative Discharge Volume (ft ³)	Time (hours)	Description
1	5	37974.45	30.58	SRWMD 100YR-24HR
2	4	17170.97	8.47	SRWMD 100YR-8HR
3	3	10552.48	4.58	SRWMD 100YR-4HR
4	2	4512.00	2.58	SRWMD 100YR-2HR
5	1	462.72	1.58	SRWMD 100YR-1HR
6	6	None	N.A.	WQTV

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Detailed Results :: Scenario 6 :: WQTV

Elapsed Time (hours)	Inflow Rate (ft ³ /s)	Outside Recharge (ft/day)	Stage Elevation (ft datum)	Infiltration Rate (ft ³ /s)	Overflow Discharge (ft ³ /s)	Cumulative Inflow Volume (ft ³)	Cumulative Infiltration Volume (ft ³)	Cumulative Discharge Volume (ft ³)	Flow Type
0.000	2080.5000	0.0000	152.990	0.00000	0.00000	0.0	0.0	0.0	N.A.
0.002	2080.5000	0.0000	157.870	0.88138	0.00000	12483.0	5.3	0.0	U/P
2.400	0.0000	0.0000	157.369	0.51210	0.00000	12483.0	7372.3	0.0	U/P
6.000	0.0000	0.0000	----	----	----	12483.0	12483.0	0.0	dry
12.000	0.0000	0.0000	----	----	----	12483.0	12483.0	0.0	dry
24.000	0.0000	0.0000	----	----	----	12483.0	12483.0	0.0	dry
36.000	0.0000	0.0000	----	----	----	12483.0	12483.0	0.0	dry
48.000	0.0000	0.0000	----	----	----	12483.0	12483.0	0.0	dry
60.000	0.0000	0.0000	----	----	----	12483.0	12483.0	0.0	dry
72.000	0.0000	0.0000	----	----	----	12483.0	12483.0	0.0	dry
84.000	0.0000	0.0000	----	----	----	12483.0	12483.0	0.0	dry
96.000	0.0000	0.0000	----	----	----	12483.0	12483.0	0.0	dry

Underdrain Analysis

BACKGROUND SEEPAGE PONDS INPUTS

Aquifer Data

Base of Aquifer:	148.7	ft
Seasonal High Water Table:	154.7	ft
Hydraulic Conductivity	5	ft/day
Fillable Porosity	20	%

Geometry: Underdrain Stage Storage

Based on the theoretical volume of water the underdrains could draw down.

ELEV.	AREA (SF)	STORAGE (CF)	STORAGE VOLUME (AC-FT)
152.00	13,469	0	0.000
153.00	15,494	14,482	0.332
154.00	17,606	31,032	0.712
155.00	19,819	49,744	1.142

*Based on minimum Underdrain Orifice EL. 152.28'

**Set above the measured SHWT EL. 154.7'

Volume:	49,744	cf
Area:	19819	sf
Depth:	3.00	ft
Perimeter:	566	ft
Eq. Length:	200	ft
Eq. Width:	83	ft

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Project Data

Project Name: CRS Marvin Burnett
Simulation Description: Background Seepage
Project Number: 23-0653
Engineer : JHP
Supervising Engineer: CCM
Date: 01-18-2024

Aquifer Data

Base Of Aquifer Elevation, [B] (ft datum): 148.70
Water Table Elevation, [WT] (ft datum): 154.70
Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day): 5.00
Fillable Porosity, [n] (%): 20.00
Vertical infiltration was not considered.

Geometry Data

Equivalent Pond Length, [L] (ft): 200.0
Equivalent Pond Width, [W] (ft): 83.0
Ground water mound is expected to intersect the pond bottom

Stage vs Area Data

Stage (ft datum)	Area (ft ²)
152.00	13469.0
153.00	15494.0
154.00	17606.0
155.00	19819.0

Discharge Structures

Discharge Structure #1 is active as orifice

Structure Parameters

Description: 12" Underdrain
Orifice elevation, (ft datum): 152.27
Orifice coefficient: 4.9
Orifice area, (ft²): 0.785
Orifice exponent: 0.5

Tailwater - disabled, free discharge

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Scenario Input Data

Scenario 1 :: 12" Underdrain

Hydrograph Type:	Baseflow
Modflow Routing:	Routed with infiltration
Seasonal Water Table Fluctuation (ft)	0.01
Duration of Wet Season (days)	120.0
Number of Increments	240
Initial (seasonal low) ground water level (ft datum)	154.69
Recharge is applied inside pond (in addition to outside pond)?	No

Note: when this option is selected, water will be added to the pond to synchronize the rise in the pond level with the rise in the groundwater. Otherwise, no water will be added directly to the pond, and the pond water level will rise as a result of infiltration only.

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Detailed Results (cont,d.) :: Scenario 1 :: 12" Underdrain

Elapsed Time (hours)	Inflow Rate (ft ³ /s)	Outside Recharge (ft/day)	Stage Elevation (ft datum)	Infiltration Rate (ft ³ /s)	Overflow Discharge (ft ³ /s)	Cumulative Inflow Volume (ft ³)	Cumulative Infiltration Volume (ft ³)	Cumulative Discharge Volume (ft ³)	Flow Type
2664.000	0.0000	0.0000	152.270	-0.00331	0.00331	0.0	-178509.4	218681.4	S
2676.000	0.0000	0.0000	152.270	-0.00331	0.00331	0.0	-178652.3	218824.3	S
2688.000	0.0000	0.0000	152.270	-0.00330	0.00330	0.0	-178795.1	218967.1	S
2700.000	0.0000	0.0000	152.270	-0.00330	0.00330	0.0	-178937.7	219109.7	S
2712.000	0.0000	0.0000	152.270	-0.00329	0.00329	0.0	-179080.1	219252.1	S
2724.000	0.0000	0.0000	152.270	-0.00329	0.00329	0.0	-179222.4	219394.4	S
2736.000	0.0000	0.0000	152.270	-0.00329	0.00329	0.0	-179364.5	219536.4	S
2748.000	0.0000	0.0000	152.270	-0.00328	0.00328	0.0	-179506.3	219678.3	S
2760.000	0.0000	0.0000	152.270	-0.00328	0.00328	0.0	-179648.1	219820.1	S
2772.000	0.0000	0.0000	152.270	-0.00327	0.00327	0.0	-179789.6	219961.6	S
2784.000	0.0000	0.0000	152.270	-0.00327	0.00327	0.0	-179931.0	220103.0	S
2796.000	0.0000	0.0000	152.270	-0.00327	0.00327	0.0	-180072.2	220244.2	S
2808.000	0.0000	0.0000	152.270	-0.00326	0.00326	0.0	-180213.2	220385.2	S
2820.000	0.0000	0.0000	152.270	-0.00326	0.00326	0.0	-180354.1	220526.1	S
2832.000	0.0000	0.0000	152.270	-0.00325	0.00325	0.0	-180494.8	220666.8	S
2844.000	0.0000	0.0000	152.270	-0.00325	0.00325	0.0	-180635.3	220807.3	S
2856.000	0.0000	0.0000	152.270	-0.00325	0.00325	0.0	-180775.7	220947.7	S
2868.000	0.0000	0.0000	152.270	-0.00324	0.00324	0.0	-180915.9	221087.9	S
2880.000	0.0000	0.0000	152.270	---	0.00324	0.0	-181055.9	221227.9	N.A.

**FLOW RATE WHEN SYSTEM ACHIEVES
 STEADY STATE (120 DAYS) WITH SEASONAL
 HIGH WATER TABLE ELEVATION**

PONDS Underdrain Analysis
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Job Information

Job Name: 23-0653 CRS Marvin Burnett
Engineer: JHP
Date: 01-18-2024

Input Data

Area at top of pond, [ATOP]:	19819 ft ²
Depth of basin, [d]:	3 ft
Aquifer depth below pond bottom, [B]:	8 ft
Desired depth to water table below pond bottom, [R]:	0.5 ft
Hydraulic conductivity of soil, [K]:	10 ft/day
Drain diameter, [D]:	12 in
Thickness of gravel envelope, [t]:	9 in
Thickness of soil cover, [H]:	2 ft
Treatment volume, [PAV]:	31032 ft ³
Recovery time, [T]:	30 days
Factor of safety, [FS]:	2
Background seepage, [qb]:	1.45 gpm
Free discharge / no tailwater	

0.00324 ft³/s converted
to gallons per minute

Results

Computed underdrain spacing, [S]:	106.6505 ft
Computed total length of laterals, [L]:	185.8312 ft
Computed flow rate through outfall, [Q]:	2.717507E-02 ft ³ /sec
Computed flow rate per lineal foot of lateral, [q _l]:	1.462352E-04 ft ³ /sec/ft

PONDS Underdrain Analysis
Version 3.3.0051
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Notes

1. Laterals should be no farther than S/2 from the top of the basin.
2. A gravel envelope at least 3 inches thick is recommended around the underdrain pipes. If a gravel envelope is used, a filter fabric will be required around this envelope.
3. The underdrain pipe should have a filter fabric sock to prevent fines from moving into and clogging the perforated pipe.
4. Ensure outfall elevation for system will allow gravity flow without tailwater backpressure to the underdrains.
5. Theory is applicable where ground water flow is largely in a horizontal direction (i.e., natural gradients less than 1%).
6. Capped and sealed inspection and cleanout ports which extend to the ground surface are recommended at the following locations for each drain pipe:
 - a. the terminus
 - b. at every 400 feet or every bend of 45 or more degrees, whichever is shortest
7. Underdrain basin should be stabilized with permanent vegetative cover.

Warnings

None.

PONDS Underdrain Analysis
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Job Information

Job Name: 23-0653 CRS Marvin Burnett
Engineer: JHP
Date: 01-18-2024

Input Data

Area at top of pond, [ATOP]:	19819	ft ²
Depth of basin, [d]:	3	ft
Aquifer depth below pond bottom, [B]:	8	ft
Desired depth to water table below pond bottom, [R]:	0.5	ft
Hydraulic conductivity of soil, [K]:	10	ft/day
Drain diameter, [D]:	12	in
Thickness of gravel envelope, [t]:	9	in
Thickness of soil cover, [H]:	2	ft
Treatment volume, [PAV]:	12483	ft ³
Recovery time, [T]:	3	days
Factor of safety, [FS]:	2	
Background seepage, [qb]:	1.45	gpm
Free discharge / no tailwater		

0.00324 ft³/s converted
to gallons per minute

Results

Computed underdrain spacing, [S]:	55.72212	ft
Computed total length of laterals, [L]:	355.6756	ft
Computed flow rate through outfall, [Q]:	9.955007E-02	ft ³ /sec
Computed flow rate per lineal foot of lateral, [q]:	2.798901E-04	ft ³ /sec/ft

Note

Maximum Underdrain Spacing:	55.7	ft
Provided Underdrain Spacing:	25.0	ft
Minimum Lateral Length:	355	ft
Provided Lateral Length:	375	ft

PONDS Underdrain Analysis
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Notes

1. Laterals should be no farther than S/2 from the top of the basin.
2. A gravel envelope at least 3 inches thick is recommended around the underdrain pipes. If a gravel envelope is used, a filter fabric will be required around this envelope.
3. The underdrain pipe should have a filter fabric sock to prevent fines from moving into and clogging the perforated pipe.
4. Ensure outfall elevation for system will allow gravity flow without tailwater backpressure to the underdrains.
5. Theory is applicable where ground water flow is largely in a horizontal direction (i.e., natural gradients less than 1%).
6. Capped and sealed inspection and cleanout ports which extend to the ground surface are recommended at the following locations for each drain pipe:
 - a. the terminus
 - b. at every 400 feet or every bend of 45 or more degrees, whichever is shortest
7. Underdrain basin should be stabilized with permanent vegetative cover.

Warnings

None.

Appendix B

Operation and Maintenance Requirements and
Erosion and Sedimentation Control Requirements

Proposed operation and maintenance and soil erosion and sediment control practices are outlined in the following paragraphs.

Surface water Management Facilities

The man-made surface water facility shall be maintained free of sediments and debris. Areas shall be inspected on a routine basis and nuisance plants shall be removed a minimum of twice annually. Grassed areas shall be mowed a minimum of 6 times per year. The natural systems shall be least disturbed as possible. Minimal maintenance is required for the natural and undisturbed areas. All ponds shall be inspected monthly. Monthly documentation shall be noted based upon the inspection findings.

Erosion Control

All erosion damage at spillways, outfall structures, and along pond side slopes shall be repaired (grading and grassing) as conditions occur. All side slopes and other areas disturbed by construction shall be stabilized by sodding, hydro-mulching or other appropriate vegetative or non-vegetative erosion control measures.

Swale/Ditch

All swales, if any, shall be maintained free of debris and sediment. Sediments shall be removed when the depth has been reduced by 20 percent. Sediments removed from swales/ditches should be evenly spread over grassed areas away from the stormwater management facilities.

Culverts, Pipes and Structures

All pipes, if any, shall be inspected bi-annually. Culverts and pipes shall be maintained free of debris and sediment. Sediments removed from culverts and pipes should be evenly spread over grassed areas away from the stormwater management facilities.

The structures and paved flow lines, if any, shall be maintained clear of debris. Remove any debris and silt collected in inlets and pipes as routine inspections dictates.

Inspection Reporting

Annual inspection reports, prepared by a properly licensed professional engineer, should be submitted to the water management district as appropriate. The engineer shall inspect the site and report on the status and function of the system. Noted deficiencies and/or maintenance requirements shall be reported to the owner with recommendations for repairs. Repairs shall be executed.

Limerock/Sinkhole

If continuous limerock is encountered during excavation of the swales/pond or if a sinkhole forms in the area of a drainage swale/pond the engineer of record shall be notified by either the contractor or the established operation and maintenance entity. The engineer of record shall inspect the repaired area upon completion of the repair.

Where continuous limerock is encountered during excavation of the swales/ponds, the limerock shall be over excavated by 2 feet and replaced with clayey soils that extend 2 feet beyond the perimeter of the limerock outcropping. The clayey soil shall have at least 20% passing the no. 200 sieve, compacted to 95% of standard proctor, and compacted in a wet condition with moisture 2% - 4% above optimum.

All swales/ponds shall be inspected monthly for sinkhole occurrence. Should a sinkhole occur, the area shall be repaired as soon as possible. Repair shall include filling (limerock such as road base material, clay/sand mixture, or concrete if necessary). A 2-foot deep cap that extends 2 feet beyond the perimeter of the sinkhole shall be constructed with clayey soils. The clayey soil shall have at least 20% passing the no. 200 sieve, compacted to 95% of standard proctor, and compacted in a wet condition with moisture 2% - 4% above optimum. The clay soil cap shall be re-graded to prevent concentration of waters (ponding) and re-vegetated.

Outfall Structures

All outfall and drawdown orifices are to be inspected bi-annually for sediment or debris in the flow line of weirs or orifices. All sediment and debris should be removed and disposed of in an approved manner.

Operation & Maintenance Entity:

Concept Development, Inc.
1449 SW 74th Drive. Suite 200
Gainesville, FL 32607

Appendix C

Geotechnical Report



Engineering & Consulting, Inc.

**SUMMARY REPORT OF A
GEOTECHNICAL SITE EXPLORATION – REVISION 1**

**DOLLAR GENERAL – LAKE CITY SW MARVIN BURNETT
LAKE CITY, COLUMBIA COUNTY, FLORIDA**

GSE PROJECT NO. 16251

Prepared For:

CONCEPT DEVELOPMENT, INC.

DECEMBER 2023



December 7, 2023

Andrea Barnett
Concept Development, Inc.
1449 SW 74th Drive, Suite 200
Gainesville, Florida 32607

Subject: Summary Report of a Geotechnical Site Exploration – Revision 1
Dollar General – Lake City SW Marvin Burnett
Lake City, Columbia County, Florida
GSE Project No. 16251

GSE Engineering & Consulting, Inc. (GSE) is pleased to submit this geotechnical site exploration report for the above referenced project.

Presented herein are the findings and conclusions of our exploration, including the geotechnical parameters and recommendations to assist with building foundation, pavement, and stormwater management designs. This revision includes recommended soil parameters for stormwater management design with underdrains.

GSE appreciates this opportunity to have assisted you on this project. If you have any questions or comments concerning this report, please contact us.

Sincerely,

GSE Engineering & Consulting, Inc.

Angelina X. Liu, E.I.
Staff Engineer



Jason E. Gowland, P.E.
Principal Engineer
Florida Registration No. 66467

AXL / JEG: tlf
Q:\Projects\16251 Dollar General – Lake City SW Marvin Burnett\16251 Rev.1.docx

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1. Project Site Location Map
2. Site Plan Showing Approximate Locations of Field Tests

1.0 INTRODUCTION

1.1 General

GSE Engineering & Consulting, Inc. (GSE) has completed this geotechnical exploration for the proposed commercial retail store located on SW Marvin Burnett Road in Lake City, Columbia County, Florida. This exploration was performed in accordance with GSE Proposal No. 2023-589 dated September 12, 2023. Ms. Andrea Barnett authorized our services on September 15, 2023.

1.2 Project Description

We understand that you are coordinating due diligence related work related to the development of this site into a commercial retail store. The site is located on the northwest corner of the State Road 47 and SW Marvin Burnett Road intersection in Lake City, Columbia County, Florida. The site is approximately +/-2.72 acres.

You provided GSE with information about the project. We understand the project will consist of an approximate 10,640 square foot building, a parking lot, and a stormwater management facility.

The structure is expected to be a single-story, high wall concrete masonry unit (CMU) and steel frame construction. Structural loads have not been provided but are expected to be on the order of 1 to 2 kips per foot for non-load bearing CMU walls, and less than 50 kips for columns. The finished floor of the structure is anticipated to be constructed within 1 to 2 feet of the existing site grades.

The building will be located in the northern portion of the site. The parking lot will be located west, south, and east of the structure. The stormwater management facility will be located on the western portion of the site.

A recent aerial photograph of the site was obtained and reviewed. The site plan and aerial photograph were used in preparation of this exploration and report.

1.3 Purpose

The purpose of this geotechnical exploration was to determine the general subsurface conditions, evaluate these conditions with respect to the proposed construction, and prepare geotechnical parameters and recommendations to assist with building foundation, stormwater management, and pavement designs.

2.0 FIELD AND LABORATORY TESTS

2.1 General Description

The procedures used for field sampling and testing are in general accordance with industry standards of care and established geotechnical engineering practices for this geographic region. This exploration consisted of performing five (5) Standard Penetration Test (SPT) borings to a depth of 20 feet below land surface (bls) within the proposed building area, five (5) auger borings to a depth of 5 feet bls in the area of the parking lot and driveways, and five (5) auger borings to depths of 15 feet bls in the area of the stormwater management facility.

The soil borings were performed at the approximate locations as shown on Figure 2. The borings were located at the site using the provided site plan, Global Positioning System (GPS) coordinates, and obvious site features as reference. The boring locations should be considered approximate. The soil borings were performed on September 20, 2023.

2.2 Auger Borings

The auger borings were performed in accordance with ASTM D1452. The borings were performed with flight auger equipment that was rotated into the ground in a manner that reduces soil disturbance. After penetrating to the required depth, the auger was retracted and the soils collected on the auger flights were field classified and placed in sealed containers. Representative samples of each stratum were retained from the auger boring. Results from the auger borings are provided in Section 5.1.

2.3 Standard Penetration Test Borings

The soil borings were performed with a drill rig employing mud rotary drilling techniques and Standard Penetration Testing (SPT) in accordance with ASTM D1586. The SPTs were performed continuously to 10 feet and at 5-foot intervals thereafter. Soil samples were obtained at the depths where the SPTs were performed. The soil samples were classified in the field, placed in sealed containers, and returned to our laboratory for further evaluation.

After drilling to the sampling depth, the standard two-inch O.D. split-barrel sampler was seated by driving it 6 inches into the undisturbed soil. The sampler was then driven an additional 12 inches by blows of a 140-pound hammer falling 30 inches. The number of blows required to produce the next 12 inches of penetration were recorded as the penetration resistance (N-value). These values and the complete SPT boring logs are provided in Section 5.2.

Upon completion of the sampling, the boreholes were abandoned in accordance with Water Management District guidelines.

2.4 Soil Laboratory Tests

The soil samples recovered from the soil borings were returned to our laboratory, and examined to confirm the field descriptions. Representative samples were then selected for laboratory testing. The laboratory tests consisted of nine (9) percent soil fines passing the No. 200 sieve, nine (9) natural moisture content determinations, two (2) Atterberg Limits tests, and three (3) constant head hydraulic conductivity tests. These tests were performed in order to aid in classifying the soils and to further evaluate their engineering properties. The laboratory tests are provided in Section 5.3.

3.0 FINDINGS

3.1 Surface Conditions

Karen Roylos with GSE visited the site on September 18, 2023 to observe the site conditions and mark the boring locations. Mr. Jason Kite with Jason Kite, LLC was retained by GSE to clear lanes to allow access to the boring locations for drilling equipment.

The majority of the site is densely vegetated with trees, scattered saw palmettos, shrubs, vines and weedy groundcover. Portions of the site were densely vegetated and more difficult to traverse. To the south of the site is SW Marvin Burnett Road. State Road 47 is located east of the site. Undeveloped wooded land borders the site to the north and west.

The topography at the site is moderately sloping from northeast towards southwest. Regional topography can be characterized as gently to moderately sloping. The Lake City West USGS Topographic Map indicates the ground surface elevations at the site are near 155 to 165 feet¹ NAVD 88.

3.2 Subsurface Conditions

The locations of the auger and SPT borings are provided on Figure 2. Complete logs for the borings are provided in Sections 5.1 and 5.2. Descriptions for the soils encountered are accompanied by the Unified Soil Classification System symbol (SM, SP-SM, etc.) and are based on visual examination of the recovered soil samples and the laboratory tests performed. Stratification boundaries between the soil types should be considered approximate, as the actual transition between soil types may be gradual.

The auger borings located within the proposed parking lot and driveways encountered relatively similar soil conditions. Auger borings A-1 to A-3 encountered poorly graded sand, and sand with silt (SP, SP-SM) to the explored depths of 5 feet bls. Auger borings A-4 and A-5 initially encountered sand with silt (SP-SM) to depths of 1.5 to 3.5 feet bls. This was underlain by clayey to very clayey sand (SC, SC/CL) to the explored depths of 5 feet bls.

The auger borings located within the stormwater management facility encountered relatively consistent soil conditions. Auger boring P-1 encountered 6 feet of silty sand, and poorly graded sand (SM, SP) overlying clayey to very clayey sand, and clay with sand (SC, SC/CL, CL/CH) to the explored depth of 15 feet bls. Auger borings P-2 to P-4 initially encountered poorly graded sand, sand with silt, and silty sand (SP, SP-SM, SM) to depths of 2 to 5 feet bls, overlying silty clayey sand, and clayey to very clayey sand (SM-SC, SC, SC/CL) to depths of 7 to 10.5 feet bls. This was underlain by sand with silt (SP-SM) to depths of 12 to 13.5 feet bls, followed by clay-rich soils (CL/CH) to the explored depth of 15 feet bls. Auger boring P-5 initially encountered 5.5 feet of clayey sand (SC) and 5 feet of sand with silt (SP-SM) overlying clay with sand (CL/CH) to a depth of 12.5 feet bls. This was underlain by sand with silt (SP-SM) to the explored depth of 15 feet bls.

¹ United States Geological Survey, Lake City West Quadrangle, 2021.

The SPT borings located within the proposed building footprint indicate the soils across these areas are relatively consistent. SPT boring B-1 initially encountered 3 feet of sand with silt (SP-SM), and 4.5 feet of sandy clay (CL) overlying sand with clay, and poorly graded sand (SP-SC, SP) to a depth of 12 feet bls. This was underlain by clay (CL/CH) to the explored depth of 20 feet bls. SPT borings B-2 to B-5 encountered poorly graded sand, sand with silt, sand with clay, silty sand, and silty clayey sand (SP, SP-SM, SP-SC, SM-SC) with some interbedded layers of clayey to very clayey sand (SC, SC/CL) to depths of 13.5 to 17.5 feet bls. This was underlain by clay-rich (CL, CL/CH) soils to the explored depths of 20 feet bls.

The sandy soils (SP, SP-SM, SP-SC) encountered are generally in a very loose to dense condition with N-values ranging from 2 to 45 blows per foot. The silty sand, silty clayey sand, and clayey to very clayey sands (SM, SM-SC, SC, SC/CL) encountered are generally in a very loose to dense condition with N-values ranging from 4 to 38 blows per foot. The sandy clay, clay with sand, and clay (CL/CH, CL) encountered are generally in a very soft to hard condition with N-values ranging from 3 to 33 blows per foot.

Weight-of-rod strength material was encountered in SPT boring B-2 at depth range from 13.5 to 14.5 feet bls. This isolated occurrence is likely related to depositional characteristics of the soil materials and transitions between material types.

The groundwater table was encountered in the auger and SPT borings at depths of 6.1 to 8.8 feet bls at the time of our investigation.

3.3 Review of Published Data

The majority of the site is mapped as three soil series by the Soil Conservation Service (SCS) Soil Survey for Columbia County². The following soil descriptions are from the Soil Survey.

Blanton fine sand, 0 to 5 percent slopes

Map Unit Setting

- *National map unit symbol:* 2w0q2
- *Elevation:* 30 to 200 feet
- *Mean annual precipitation:* 51 to 59 inches
- *Mean annual air temperature:* 64 to 72 degrees F
- *Frost-free period:* 258 to 310 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Blanton and similar soils:* 85 percent
- *Minor components:* 15 percent
- *Estimates are based on observations, descriptions, and transects of the map unit.*

² Soil Survey of Hamilton County, Florida. Soil Conservation Service, U.S. Department of Agriculture.

Description of Blanton

Setting

- *Landform*: Knolls on marine terraces, ridges on marine terraces
- *Landform position (two-dimensional)*: Backslope
- *Landform position (three-dimensional)*: Side slope, interfluve, riser
- *Down-slope shape*: Convex
- *Across-slope shape*: Linear
- *Parent material*: Sandy and loamy marine deposits

Typical profile

- *A - 0 to 7 inches*: fine sand
- *E - 7 to 52 inches*: fine sand
- *Bt - 52 to 80 inches*: fine sandy loam

Properties and qualities

- *Slope*: 0 to 5 percent
- *Depth to restrictive feature*: More than 80 inches
- *Drainage class*: Moderately well drained
- *Runoff class*: Negligible
- *Capacity of the most limiting layer to transmit water (Ksat)*: Moderately high to high (0.20 to 6.00 in/hr)
- *Depth to water table*: About 42 to 72 inches
- *Frequency of flooding*: None
- *Frequency of ponding*: None
- *Maximum salinity*: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Sodium adsorption ratio, maximum*: 4.0
- *Available water supply, 0 to 60 inches*: Low (about 3.6 inches)

Interpretive groups

- *Land capability classification (irrigated)*: None specified
- *Land capability classification (nonirrigated)*: 3s
- *Hydrologic Soil Group*: A
- *Forage suitability group*: Sandy soils on rises, knolls, and ridges of mesic uplands (G138XA121FL)
- *Other vegetative classification*: Sandy soils on rises, knolls, and ridges of mesic uplands (G138XA121FL)
- *Hydric soil rating*: No

Minor Components

Albany

- *Percent of map unit:* 6 percent
- *Landform:* Ridges on marine terraces
- *Landform position (two-dimensional):* Shoulder
- *Landform position (three-dimensional):* Interfluve, talf
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy soils on rises and knolls of mesic uplands (G138XA131FL), North Florida Flatwoods (R138XY004FL)
- *Hydric soil rating:* No

Troup

- *Percent of map unit:* 4 percent
- *Landform:* Ridges, knolls
- *Landform position (two-dimensional):* Summit
- *Landform position (three-dimensional):* Interfluve
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy soils on ridges and dunes of xeric uplands (G133AA111FL), Longleaf Pine-Turkey Oak Hills (R133AY002FL)
- *Hydric soil rating:* No

Chipley

- *Percent of map unit:* 3 percent
- *Landform:* Knolls on marine terraces, rises on marine terraces, flats on marine terraces
- *Landform position (two-dimensional):* Shoulder, footslope
- *Landform position (three-dimensional):* Interfluve
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy soils on rises and knolls of mesic uplands (G138XA131FL)
- *Hydric soil rating:* No

Alpin

- *Percent of map unit:* 2 percent
- *Landform:* Flatwoods on marine terraces, knolls on marine terraces, ridges on marine terraces
- *Landform position (two-dimensional):* Shoulder, backslope
- *Landform position (three-dimensional):* Interfluve
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy soils on ridges and dunes of xeric uplands (G138XA111FL), Sand Pine Scrub (R153AY001FL)
- *Hydric soil rating:* No

Ichetucknee fine sand, 5 to 8 percent slopes

Map Unit Setting

- *National map unit symbol:* vrt4
- *Elevation:* 330 to 660 feet
- *Mean annual precipitation:* 50 to 58 inches
- *Mean annual air temperature:* 64 to 72 degrees F
- *Frost-free period:* 258 to 288 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Ichetucknee and similar soils:* 80 percent
- *Minor components:* 20 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Ichetucknee

Setting

- *Landform:* Hills on marine terraces, ridges on marine terraces
- *Landform position (three-dimensional):* Interfluve, side slope
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Parent material:* Sandy and clayey marine deposits over limestone

Typical profile

- *A - 0 to 4 inches:* fine sand
- *E - 4 to 7 inches:* fine sand
- *Bg - 7 to 75 inches:* clay
- *2R - 75 to 79 inches:* weathered bedrock

Properties and qualities

- *Slope:* 5 to 8 percent
- *Depth to restrictive feature:* 50 to 75 inches to lithic bedrock
- *Drainage class:* Somewhat poorly drained
- *Runoff class:* Negligible
- *Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)
- *Depth to water table:* About 18 to 36 inches
- *Frequency of flooding:* None
- *Frequency of ponding:* None
- *Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Sodium adsorption ratio, maximum:* 4.0
- *Available water supply, 0 to 60 inches:* Moderate (about 8.4 inches)

Interpretive groups

- *Land capability classification (irrigated):* None specified
- *Land capability classification (nonirrigated):* 6e
- *Hydrologic Soil Group:* D
- *Forage suitability group:* Loamy and clayey soils on rises, knolls, and ridges of mesic uplands (G138XA322FL)
- *Other vegetative classification:* Loamy and clayey soils on rises, knolls, and ridges of mesic uplands (G138XA322FL)
- *Hydric soil rating:* No

Minor Components

Goldsboro

- *Percent of map unit:* 10 percent
- *Landform:* Knolls on marine terraces, ridges on marine terraces
- *Landform position (three-dimensional):* Interfluve
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Loamy and clayey soils on flats and rises of mesic lowlands (G138XA331FL)
- *Hydric soil rating:* No

Ocilla

- *Percent of map unit:* 10 percent
- *Landform:* Rises on marine terraces
- *Landform position (three-dimensional):* Interfluve
- *Down-slope shape:* Convex
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy over loamy soils on rises and knolls of mesic uplands (G138XA231FL)
- *Hydric soil rating:* No

Pelham fine sand, 0 to 2 percent slopes

Map Unit Setting

- *National map unit symbol:* 2tg56
- *Elevation:* 0 to 190 feet
- *Mean annual precipitation:* 48 to 63 inches
- *Mean annual air temperature:* 57 to 79 degrees F
- *Frost-free period:* 251 to 293 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Pelham and similar soils:* 75 percent
- *Minor components:* 25 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Pelham

Setting

- *Landform*: Flatwoods
- *Landform position (three-dimensional)*: Talf
- *Down-slope shape*: Linear
- *Across-slope shape*: Linear
- *Parent material*: Sandy and loamy marine deposits

Typical profile

- *A - 0 to 6 inches*: fine sand
- *Eg - 6 to 26 inches*: fine sand
- *Btg1 - 26 to 42 inches*: sandy clay loam
- *Btg2 - 42 to 83 inches*: sandy clay loam

Properties and qualities

- *Slope*: 0 to 2 percent
- *Depth to restrictive feature*: More than 80 inches
- *Drainage class*: Poorly drained
- *Runoff class*: High
- *Capacity of the most limiting layer to transmit water (Ksat)*: Moderately high to high (0.20 to 5.95 in/hr)
- *Depth to water table*: About 6 to 12 inches
- *Frequency of flooding*: None
- *Frequency of ponding*: None
- *Maximum salinity*: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
- *Sodium adsorption ratio, maximum*: 4.0
- *Available water supply, 0 to 60 inches*: Moderate (about 7.0 inches)

Interpretive groups

- *Land capability classification (irrigated)*: None specified
- *Land capability classification (nonirrigated)*: 3w
- *Hydrologic Soil Group*: B/D
- *Ecological site*: F153AY060NC - Wet Loamy Flats and Depressions
- *Forage suitability group*: Sandy over loamy soils on flats of hydric or mesic lowlands (G153AA241FL)
- *Other vegetative classification*: Sandy over loamy soils on flats of hydric or mesic lowlands (G153AA241FL)
- *Hydric soil rating*: No

Minor Components

Unnamed

- *Percent of map unit:* 13 percent
- *Landform:* Flatwoods
- *Landform position (three-dimensional):* Talf
- *Down-slope shape:* Linear
- *Across-slope shape:* Linear
- *Other vegetative classification:* Sandy over loamy soils on flats of hydric or mesic lowlands (G153AA241FL)
- *Hydric soil rating:* Yes

Albany

- *Percent of map unit:* 6 percent
- *Landform:* Flatwoods
- *Landform position (three-dimensional):* Talf
- *Microfeatures of landform position:* Rises
- *Down-slope shape:* Convex
- *Across-slope shape:* Convex
- *Ecological site:* F153AY040NC - Moist Loamy Rises and Flats
- *Other vegetative classification:* Sandy soils on rises and knolls of mesic uplands (G153AA131FL)
- *Hydric soil rating:* No

Meggett

- *Percent of map unit:* 3 percent
- *Landform:* Flatwoods
- *Landform position (three-dimensional):* Talf
- *Down-slope shape:* Linear
- *Across-slope shape:* Linear
- *Ecological site:* F153AY090NC - Flooded Mineral Soil Floodplains and Terraces
- *Other vegetative classification:* Loamy and clayey soils on flats of hydric or mesic lowlands (G153AA341FL)
- *Hydric soil rating:* Yes

Surrency

- *Percent of map unit:* 3 percent
- *Landform:* Drainageways, depressions
- *Landform position (three-dimensional):* Dip
- *Down-slope shape:* Linear, concave
- *Across-slope shape:* Convex, concave
- *Ecological site:* F153AY060NC - Wet Loamy Flats and Depressions
- *Other vegetative classification:* Sandy over loamy soils on stream terraces, flood plains, or in depressions (G153AA245FL)
- *Hydric soil rating:* Yes

3.4 Laboratory Soil Analysis

Selected soil samples recovered from the soil borings were analyzed for the percent soil fines passing the No. 200 sieve, natural moisture content, Atterberg Limits, and hydraulic conductivity. Samples selected for laboratory testing were collected at depths ranging from near-surface to 15 feet bls. These tests were performed to confirm visual soil classification and evaluate their engineering properties. The complete laboratory report is provided in Section 5.3.

The laboratory tests indicate the tested soils consist sand with silt, silty sand, silty sand with clay, sand with clay, clayey sand, very clayey sand, and sandy clay. The tested sand with silt (SP-SM) contains approximately 11 percent soil fines passing the No. 200 sieve with a natural moisture content of about 8.7 percent. The tested silty sand, and silty sand with clay (SM, SM-SC) contains approximately 14 to 27 percent soil fines passing the No. 200 sieve with natural moisture contents of about 7.8 to 18 percent. The tested sand with clay (SP-SC) contains approximately 11 percent soil fines passing the No. 200 sieve with a natural moisture content of about 17 percent. The tested clayey sand (SC) contains approximately 30 percent soil fines passing the No. 200 sieve with a natural moisture content of about 13 percent. The tested very clayey sand (SC/CL) contains approximately 34 percent soil fines passing the No. 200 sieve with a natural moisture content of about 18 percent. The tested sandy clay (CL) contains approximately 56 to 62 percent soil fines passing the No. 200 sieve with natural moisture contents of about 17 to 23 percent.

Atterberg Limits tests indicate the tested sandy clay (CL) has Liquid Limit (LL) values of 35 and 41, Plastic Limit (PL) values of 15 to 18, and Plasticity Index (PI) values of 17 and 26. These values correspond to materials with low potential ($LL < 50$) to marginal potential ($PI \leq 35$) for expansive behavior³.

The constant head hydraulic conductivity test results indicate the near-surface silty sand (SM) has hydraulic conductivity values of 0.8 to 1.1 feet per day. The tested clayey sand (SC) has no flow. Tests were not conducted on the deeper very clayey sand due to the limitations of the test method on soils having moderate to high fines content, but these soils are expected to have permeability values at least one order of magnitude lower than the sandy soils.

³ U.S. Department of the Army USA, 1983, Foundations in Expansive Soils, TM 5-818-7, p. 4-1.

4.0 EVALUATION AND RECOMMENDATIONS

4.1 General

The following recommendations are made based upon our understanding of the proposed construction, a review of the attached soil borings and laboratory test data, and experience with similar projects and subsurface conditions. If plans or the location of proposed construction changes from those discussed previously, GSE requests the opportunity to review and possibly amend our recommendations with respect to those changes.

The final design of a foundation system is dependent upon adequate integration of geotechnical and structural engineering considerations. Consequently, GSE must review the final foundation design in order to evaluate the effectiveness and applicability of our initial analyses, and to determine if additional recommendations may be warranted. Without such a review, the recommendations presented herein could be misinterpreted or misapplied resulting in potentially unacceptable performance of the foundation system.

The performance of site improvements may be sensitive to their post-construction relationship to site groundwater levels, seepage zones, or soil/rock characteristics exposed at final site grades. GSE recommends that use of boring information for final design of all site improvements be predicated on proper horizontal and vertical control of borings.

In this section of the report, we present our geotechnical parameters and recommendations to assist with building foundation, stormwater management, and pavement designs as well as our general site preparation guidelines.

4.2 Groundwater

The groundwater table was encountered in the borings at depths of 6.1 to 8.8 feet bls at the time of our exploration. The Soil Survey indicates the groundwater table is typically at a depth of near-surface to 6 feet bls. We anticipate the seasonal high groundwater table will be near depths of 1 to 3.5 feet bls. Estimates for the seasonal high groundwater table are shown on the individual boring logs.

4.3 Building Foundations

The SPT borings located within the proposed building footprint indicate the soils across these areas are relatively consistent. SPT boring B-1 initially encountered 3 feet of sand with silt (SP-SM), and 4.5 feet of sandy clay (CL) overlying sand with clay, and poorly graded sand (SP-SC, SP) to a depth of 12 feet bls. This was underlain by clay (CL/CH) to the explored depth of 20 feet bls. SPT borings B-2 to B-5 encountered poorly graded sand, sand with silt, sand with clay, silty sand, and silty clayey sand (SP, SP-SM, SP-SC, SM-SC) with some interbedded layers of clayey to very clayey sand (SC, SC/CL) to depths of 13.5 to 17.5 feet bls. This was underlain by clay-rich (CL, CL/CH) soils to the explored depths of 20 feet bls.

Based upon the soil conditions encountered and our limited understanding of the structural loads and site grading, we recommend the building be supported by conventional, shallow strip and/or spread foundations. We recommend the shallow foundations be designed for a maximum allowable gross bearing pressure of 2,500 psf. The gross bearing pressure is defined as the soil contact pressure that can be imposed from the maximum structural loads, weight of the concrete foundations, and weight of the soil above the foundations. The foundations should be designed based upon the maximum load that could be imposed by all loading conditions.

The foundations should be embedded a minimum of 18 inches below the lowest adjacent grade. Interior foundations or thickened sections should be embedded a minimum of 12 inches. The foundations should have minimum widths of 18 inches for strip footings, and 24 inches for columns, even though the maximum soil bearing pressure may not be fully developed.

Due to the mostly sandy nature of the majority of the near-surface soils, we expect settlement to be mostly elastic in nature. The majority of the settlement will occur on application of the loads, during and immediately following construction. Using the recommended maximum bearing pressure, the assumed maximum structural loads, and the field and laboratory test data which we have correlated into the strength and compressibility characteristics of the subsurface soils, we estimate the total settlements of the structure to be 1 inch or less, with approximately half of it occurring upon load application (during construction).

Differential settlement results from differences in applied bearing pressures and the variations in the compressibility characteristics of the subsurface soils. For the building pad prepared as recommended, we anticipate differential settlement of less than 1/2 inch.

Post-construction settlement of the structures will be influenced by several interrelated factors, such as (1) subsurface stratification and strength/compressibility characteristics of the bearing soils; (2) footing size, bearing level, applied loads, and resulting bearing pressures beneath the foundation; (3) site preparation and earthwork construction techniques used by the contractor, and (4) external factors, including but not limited to vibration from off-site sources and groundwater fluctuations beyond those normally anticipated for the naturally-occurring site and soil conditions which are present.

Our settlement estimates for the structure are based upon our limited understanding of the structural loads and site grading and the use of successful adherence to the site preparation recommendations presented later in this report. Any deviation from our project understanding and/or our site preparation recommendations could result in an increase in the estimated post-construction settlement of the structure.

4.4 Flexible Pavement

Overall soil conditions encountered by our borings at this site are suitable for supporting conventional limerock base and asphalt wearing surface pavements. We have not been provided the anticipated traffic loading conditions; therefore, the following pavement component recommendations should be used only as guidelines. The below recommendations are intended to be minimums. Increasing base course and asphalt thicknesses would increase the design life of the pavement.

The seasonal high groundwater table is estimated to be approximately 12 inches to about 3.5 feet beneath existing grade across the site. We recommend a minimum of either 12 to 24 inches of separation (depending upon the pavement section design) be present between the bottom of the base course and the estimated seasonal high groundwater table. If this separation cannot be achieved by site grading, GSE recommends underdrains be used beneath the base course.

4.4.1 Stabilized Subgrade

If a crushed limerock or recycled concrete base is used, we recommend a stabilized subgrade be located beneath the base. The stabilized subgrade should have a minimum Limerock Bearing Ratio (LBR) of 40, with minimum thicknesses of 6 inches for automobile parking areas and 12 inches for driveways.

The stabilized subgrade can be imported material or a mixture of imported and on-site material. If a mix is proposed, a mix design should be performed to determine the optimum mix proportions. The stabilized subgrade should be compacted to a minimum of 98 percent of the Modified Proctor maximum dry density (ASTM D1557) for soils with less than 15 percent fines content. Soils with 15 percent or greater fines content should be compacted to 100 percent of the Standard Proctor maximum dry density (ASTM D698).

4.4.2 Base Course

The base course can consist of either crushed limerock, soil cement, or recycled concrete. If you should use a soil cement base course, a stabilized subgrade is not required.

Limerock should have an LBR of at least 100, be obtained from a FDOT approved source and meet FDOT gradation requirements. The base course thickness should be a minimum of 6 inches in automobile parking areas, and 8 inches in driveway areas. The base course should be compacted to at least 98 percent of the Modified Proctor maximum dry density (ASTM D1557). We recommend a minimum 24 inches separation between the bottom of the limerock base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.

Soil cement can consist of an imported material or a blend of the on-site soils and cement. A mix design should be performed to determine the optimum cement content. We recommend the soil cement have a minimum 28-day compressive strength of 500 psi. Soil cement can be blended off-site (in a pug mill) or on site. Soil cement pills should be cast from each day's production to verify the recommended compressive strength has been achieved at 28 days. We recommend the soil cement base course be a minimum of 8 inches thick throughout the project. We recommend a minimum 18 inches separation between the bottom of the soil cement base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.

Recycled concrete should have an LBR of at least 150, be obtained from a FDOT approved source and meet FDOT gradation requirements. The base course thickness should be a minimum of 8 inches. The base course should be compacted to at least 98 percent of the Modified Proctor maximum dry density (ASTM D1557). We recommend a minimum 12 inches separation between the bottom of the recycled concrete base course and the estimated seasonal high-water table. If site grading does not allow for this separation, we recommend underdrains be considered.

4.4.3 Wearing Surface

The asphalt-wearing surface should consist of an FDOT Type SP Hot Mix Asphalt mixture. For automobile parking areas, the thickness should be a minimum of 1.5 inches. For driveway areas, the thickness should be a minimum of 2 inches. The asphalt-wearing surface should consist of an SP-12.5 mix. The asphalt should be compacted to at least 95 percent of the mix design density.

The constructability of differing asphalt thicknesses may be difficult, and having a uniform 2-inch thick asphalt wearing surface may be more practical.

4.5 Rigid Pavement

Concrete pavement is a rigid pavement that results in smaller load transfers to the subgrade soils than flexible pavement. For concrete pavement subgrade, we recommend using the existing surficial sands or recommended clean sand (SP) fill, compacted to at least 98 percent of the Modified Proctor maximum dry density without additional stabilization with the following stipulations:

1. Subgrade soils must be compacted to at least 98 percent of Modified Proctor maximum dry density to a depth of at least 2 feet prior to placement of concrete.
2. The surface of the subgrade soils must be smooth and any disturbances or wheel rutting corrected prior to placement of the concrete.
3. The subgrade soils must be moistened prior to placement of concrete.
4. Concrete pavement thickness should be uniform throughout, with the exception of thickened edges (curb or footing).
5. The bottom of the pavement should be separated from the estimated seasonal high groundwater level by at least 18 inches.
6. Limerock or any other impermeable base is not suitable unless it meets the minimum recommended permeability of 10 ft/day.
7. The upper 12 inches of subgrade underlying the base course must also be “free-draining” and water that enters the base and subgrade must be allowed to seep out by gravity or if this is not possible, underdrains must be incorporated into the subgrade. A “bathtub” condition within the base/subgrade must be avoided.

Our recommendations for slab thickness for both light-duty and heavy-duty concrete pavements is based on a.) subgrade soils are compacted to 98 percent of the Modified Proctor maximum dry density, b.) modulus of subgrade reaction (k) of 200 pounds per cubic inch, c.) a 20-year design life, and d.) previously stated design parameters. For an anticipated light-duty traffic group, a minimum pavement thickness of 5.5 inches is recommended, using Table 2.4 from the ACI 330 Guide for Design and Construction of Concrete Parking Lots, ACI 330R-01. For an anticipated heavy-duty traffic group, a minimum pavement thickness of 8 inches is recommended, using Table 3.4 from the FDOT *Rigid Pavement Design Manual*, January 2019.

We recommend using concrete with a minimum 28-day compressive strength of 4,000 pounds per square inch and a minimum 28-day flexural strength (modulus of rupture) of at least 600 pounds per square inch based on the third point loading of concrete beam test samples. Maximum control joint spacing of 12.5 by 12.5 feet is suggested for light-duty concrete pavements. Maximum control joint spacing of 15 by 15 feet is suggested for heavy-duty concrete pavements. Layout of sawcut control joints should form square panels, and the depth of sawcut joint should be at least 1/4 of the concrete slab thickness. The joints should be sawed within six hours of concrete placement or as soon as the concrete has developed sufficient strength to support workers and equipment.

For further details on concrete pavement construction, refer to “Guide to Jointing Non-reinforced Concrete Pavements” published by the Florida Concrete and Products Associates, Inc. and “Building Quality Concrete Parking Areas”, published by the Portland Cement Association.

4.6 Site Preparation

The soils at this site should be suitable for supporting the proposed construction using normal, good practice site preparation procedures. The following recommendations are our general guidelines for site preparation.

4.6.1 Stripping

Strip the construction limits and 10 feet beyond the perimeter of all grass, roots, topsoil, and other deleterious materials. You should expect to strip to depths of 12 or more inches. Deeper stripping will likely be necessary due to major root systems present at the site.

4.6.2 Dewatering

Temporary dewatering may be necessary for this project. If needed, we anticipate dewatering can be accomplished with sumps placed near the construction area, or with underdrains connected to a vacuum pump.

In any case, the site should always be graded to promote runoff and limit the amount of ponding. Localized ponding of stormwater is expected without proper grading during construction, and could render previously acceptable surfaces unacceptable.

4.6.3 Proof-Rolling

Proof-roll the subgrade with heavy rubber-tired equipment, such as a loaded front-end loader or dump truck, to identify any loose or soft zones not found by the soil borings. The proof-rolling should be monitored by a geotechnical engineer or qualified technician. Undercut or otherwise treat these zones as recommended by the geotechnical engineer in this report.

4.6.4 Proof Compaction

Compact the subgrade to a density of at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557). The specified compaction should be obtained to a depth of 1 foot below the foundation bottoms and the existing grade prior to placing fill. Vibratory roller equipment should not be used within approximately 100 feet of existing structures. Lighter “walk-behind” compaction equipment may be used to achieve the degree of compaction.

Should clayey sand be encountered at the bearing surface, this material should be probed and visually confirmed to be unyielding in the upper 12 inches in lieu of density testing. If the foundation excavations penetrate the clayey sand, the excavation should be performed in a manner that reduces soil disturbance. Clayey sand soils (with fines content in excess of 15 percent) that are removed and replaced or appreciably disturbed need to be re-compacted to 98 percent of the Standard Proctor maximum dry density (ASTM D698).

4.6.5 Fill Placement

Imported fill placed to raise the site grades should consist of clean sand having less than 10 percent passing the No. 200 sieve. On-site soils meeting the requirements of Section 4.9 may also be used as structural fill. The fill should be placed in maximum 12-inch loose lifts that are compacted to at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557). If lighter “walk-behind” compaction equipment is used, this may require lifts of 4 inches or less to achieve the required degree of compaction.

4.7 Quality Control and Construction Materials Testing

It should be noted that the geotechnical engineering design does not end with the advertisement of the construction documents. As the geotechnical engineer of record, GSE is the most qualified to perform the construction materials testing that will be required for this project. The benefits of having the geotechnical engineer of record also perform the construction materials testing are numerous. If GSE continues to be involved with the project through construction, we will be able to constantly re-evaluate and possibly alter our geotechnical recommendations in a timely and cost effective manner once final design and construction techniques are developed. This often results in cost savings for the project.

We recommend performing compaction testing beneath the concrete floor slab and the building foundations. We recommend one test be performed every 50 linear feet of continuous footing and every other column footing, per foot depth of fill or native material. We recommend a compaction test be performed for each 2,500 square feet of floor area or 10,000 square feet of pavement area per foot of fill or native material, or a minimum of three tests each, whichever is greater. Test all footing excavations to a depth of 12 inches at the frequencies stated above.

4.8 Stormwater Management

The auger borings located within the stormwater management facility encountered relatively consistent soil conditions. Auger boring P-1 encountered 6 feet of silty sand, and poorly graded sand (SM, SP) overlying clayey to very clayey sand, and clay with sand (SC, SC/CL, CL/CH) to the explored depth of 15 feet bls. Auger borings P-2 to P-4 initially encountered poorly graded sand, sand with silt, and silty sand (SP, SP-SM, SM) to depths of 2 to 5 feet bls, overlying silty clayey sand, and clayey to very clayey sand (SM-SC, SC, SC/CL) to depths of 7 to 10.5 feet bls. This was underlain by sand with silt (SP-SM) to depths of 12 to 13.5 feet bls, followed by clay-rich soils (CL/CH) to the explored depth of 15 feet bls. Auger boring P-5 initially encountered 5.5 feet of clayey sand (SC) and 5 feet of sand with silt (SP-SM) overlying clay with sand (CL/CH) to a depth of 12.5 feet bls. This was underlain by sand with silt (SP-SM) to the explored depth of 15 feet bls.

The water table was encountered in the auger borings at depths of 7.5 to 8.8 feet bls at the time of our exploration. We anticipate the seasonal high groundwater table to be at depths of 1 to 2.5 feet bls.

The laboratory permeability tests indicate the surficial layers of silty sand (SM) has hydraulic conductivity values of 0.8 to 1.1 feet per day, and clayey sand (SC) has no flow. The deeper very clayey sand encountered below the surficial sandy soils is friable and will have permeability values at least one order of magnitude lower than the sandy soils. The underlying dense soils and clay-rich soils are expected to be confining soils.

Mr. Cole Menhennett with CHW confirmed the proposed stormwater management facility as a dry pond via email. We understand that the current design will consider underdrains. We understand that imported clean sand will be used for the backfill for the underdrains. This revision includes soil parameters considering and underdrain design with clean sand backfill.

Based upon our findings and test results, our recommended soil parameters for the stormwater management design in the explored areas are presented below. The recommended parameters consider the results of the permeability tests, wash 200 determinations, and our experience with these types of soils. The parameters below do not consider a factor of safety.

Proposed Stormwater Management Facility

1. Base elevation of effective or mobilized aquifer (average depth of confining layer) equal to 8 feet bls.
2. Unsaturated vertical infiltration rate of 10 foot per day.
3. Horizontal hydraulic conductivity equal to 10 feet per day.
4. Specific yield (fillable porosity) of 20 percent.
5. Average seasonal high groundwater table depth equal to 2 feet bls.
6. Average seasonal low groundwater table depth equal to 6 feet bls.

In areas where clay-rich soils are present at the basin bottom, we recommend these soils be undercut a minimum of 2 feet and backfilled with the on-site sands and sands with silt (SP, SP-SM) having a maximum of 12 percent soil fines passing the No. 200 sieve. This fill should also be used above the bottom of the underdrains. The intent of this undercutting and replacement is to provide a more uniform sand “blanket” at the basin bottom that allows the migration of water to the underdrains. This sand blanket will also reduce the potential for clay-fines leaching out of the soils when water is present in the basin that can result in a thin layer of confining type material on the basin bottom that can reduce the effectiveness of the basin.

4.9 Fill Suitability

The soils encountered at this site within the explored depths range from sands (SP) to clays (CL/CH). A discussion of the suitability for reuse as structural fill for each soil classification according to the Unified Soil Classification System (USCS) designation is provided below.

SP, SP/SM – Sands (SP) and sand with silt (SP/SM) have less than 5 percent and 12 percent soil fines passing the No. 200 sieve, respectively, and are typically well draining soils that are suitable for reuse as structural fill. The sands with silt may require moisture conditioning (drying) to make the material more workable. These soils will require stockpiling and drying before they are reused if they are excavated from below the water table.

SM – Silty sands (SM) can have between 12 percent and 50 percent soil fines passing the No. 200 sieve. Silty sands are typically non-plastic or have low plasticity, and can be reused as structural fill with precautions. Silty sands can be moisture sensitive and difficult to work and compact and can rut if the moisture content is near or above the optimum moisture content. We recommend these soils be moisture conditioned (dried) so that the moisture content during use is at or below the optimum moisture content. Aerating and exposure to the sun is typically the most effective methods of drying these soils. It may not be practical to reuse these materials during the wet season, as frequent rain showers may not allow these soils to dry to a workable moisture content. Suitable silty sands are limited to soil having less than 30 percent soil fines passing the No. 200 sieve. Silty sands with more than 30 percent soil fines are especially moisture sensitive, and are not recommended for reuse as structural fill. These soils will behave more as sandy silt, and for this reason, very silty sands having more than 30 percent soil fines passing the No. 200 sieve have been assigned a dual classification of SM/ML. Silty sand soils that are excavated from below the water table are not recommended for reuse as structural fill due to the amount of time that will be required to dry these soils to a workable condition.

SC – Clayey sand (SC) soils can have between 12 percent and 50 percent soil fines passing the No. 200 sieve. Clayey sands can have a high range of plasticity, varying from a PI of 7 or greater and plotting above the A-line to highly plastic. Friable clayey sands are typically suitable for use as structural fill with precautions. Clayey sands will be moisture sensitive and difficult to work and compact and can rut during placement if the moisture content is near or above the natural moisture content. We recommend these soils be moisture conditioned (dried) so that the moisture content during use is at or below the optimum moisture content. Aerating and exposure to the sun is typically the most effective methods of drying these soils. It may not be practical to reuse these materials during the wet season, as frequent rain showers may not allow these soils to dry to a workable moisture content. Suitable clayey sands are limited to soil having less than 30 percent soil fines passing the No. 200 sieve. Clayey sands with more than 30 percent soil fines passing the No. 200 sieve are especially moisture sensitive and are typically highly plastic, and are not recommended for reuse as structural fill. These soils will behave more as sandy clay, and for this reason, very clayey sands having more than 30 percent soil fines passing the No. 200 sieve have been assigned a dual classification of SC/CH or SC/CL. Clayey sand soils that are excavated from below the water table are not recommended for reuse as structural fill due to the amount of time that will be required to dry these soils to a workable condition.

ML, MH, CL, CH – Silts and clays are not suitable materials for reuse as structural fill.

When using on-site soils as fill materials, we recommend the silty and clayey sand soils (SM, SC) be used in the lower depths of the fill. Sand and sand with silt (SP, SP-SM) should be used in the upper portions of the fill. We recommend a minimum of 2 feet of sand (SP, SP-SM) cover the silty and clayey sand fill materials to reduce the potential for soggy surface conditions due to the low permeability characteristics of the silty and clayey sand materials.

4.10 Surface Water Control and Landscaping

Roof gutters should be considered to divert runoff away from the building. The gutter downspouts should discharge a minimum of 10 feet from the structure to reduce the amount of water collecting around the foundations. Where possible, the gutter downspouts should discharge directly into the storm sewer system or onto the asphalt paved areas in order to reduce the amount of water collecting around the foundations. Grading of the site should be such that water is diverted away from the building on all sides to reduce the potential for erosion and water infiltration along the foundation.

With respect to landscaping, it is recommended that any trees and large “tree-like” shrubbery with potential for developing large root systems be planted a minimum distance of half their mature height, and preferably their expected final height, away from the structure. The purpose of this is to reduce the potential for foundation or slab movements from the growth of root systems as the landscaping matures.

5.0 FIELD DATA

5.1 Auger Boring Logs



GSE Engineering
 5590 SW 64th St
 Gainesville, FL 32608
 Telephone: 3523773233

CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER A-1**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▼ AT TIME OF DRILLING NE CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 3.5 ft
 NOTES _____

DATE PERFORMED 9/20/2023 **BORING NUMBER A-2**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▼ AT TIME OF DRILLING NE CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 3.5 ft
 NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION	DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0				(SP) Brown and gray SAND	0				(SP-SM) Dark brown and gray SAND with silt
1		AU 1			1		AU 1		%PASS-200 = 11 MC = 8.7
2		AU 2		(SP) Pale gray and brown SAND	2.0				
3				▽	2.5		AU 2		(SP) Pale brown SAND
4					3				▽
5				Bottom of borehole at 5.0 feet.	4				
					5				Bottom of borehole at 5.0 feet.

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CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER A-3**

DATE PERFORMED 9/20/2023 **BORING NUMBER A-4**

DRILLING CONTRACTOR Whitaker Drilling, Inc.

DRILLING CONTRACTOR Whitaker Drilling, Inc.

GROUND WATER LEVELS: LOGGED BY WDI

GROUND WATER LEVELS: LOGGED BY WDI

▼ AT TIME OF DRILLING NE CHECKED BY AXL

▼ AT TIME OF DRILLING NE CHECKED BY AXL

▽ ESTIMATED SEASONAL HIGH 3.5 ft

▽ ESTIMATED SEASONAL HIGH 3.0 ft

NOTES _____

NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION	DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0				(SP-SM) Brown and gray SAND with silt	0				(SP-SM) Brown and gray SAND with silt
1		AU 1			1				
2		AU 2		(SP) Pale gray and brown SAND	2				(SC/CL) Brown, gray, and orange very clayey SAND
3					3				▽ %PASS-200 = 34 MC = 18
4					4				
5				Bottom of borehole at 5.0 feet.	5				Bottom of borehole at 5.0 feet.

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CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER A-5**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▼ AT TIME OF DRILLING NE CHECKED BY AXL
 ▽ ESTIMATED SEASONAL HIGH 3.0 ft
 NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0				(SP-SM) Brown and gray SAND with silt
1		AU 1		
2				
3				▽
3.5				
4		AU 2		(SC) Brown and gray clayey SAND
5				
5.0				Bottom of borehole at 5.0 feet.

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CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER P-1**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▼ AT TIME OF DRILLING 7.5 ft CHECKED BY AXL
 ▼ ESTIMATED SEASONAL HIGH 2.5 ft
 NOTES _____

DATE PERFORMED 9/20/2023 **BORING NUMBER P-2**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▼ AT TIME OF DRILLING 7.8 ft CHECKED BY AXL
 ▼ ESTIMATED SEASONAL HIGH 2.5 ft
 NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION	DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0.0				(SM) Gray and brown silty SAND	0.0		AU 1		(SP) Brown and gray SAND
2.5		AP 1		▼ %PASS-200 = 14 MC = 7.8 k _n = 1.1 ft/day	2.5				▼
4.0		AU 2		(SP) Brown and gray SAND with trace of clay	3.5				(SC) Brown and orange clayey SAND
5.0					5.0				
6.0				(SC/CL) Pale gray and brown very clayey SAND	6.5				
7.5		AU 3		▼	7.5		AU 3		(SM-SC) Gray, brown, and orange silty clayey SAND
10.0					10.0				
12.5		AU 4		(CL/CH) Gray CLAY with sand	10.5		AU 4		(SP-SM) Pale gray and brown SAND with silt
13.5		AU 5		(SC) Brown and orange clayey SAND	12.5				
15.0				Bottom of borehole at 15.0 feet.	13.5		AU 5		(CL/CH) Pale gray and brown CLAY with sand
					15.0				Bottom of borehole at 15.0 feet.

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CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER P-3**

DRILLING CONTRACTOR Whitaker Drilling, Inc.

GROUND WATER LEVELS: LOGGED BY WDI

▼ AT TIME OF DRILLING 7.5 ft CHECKED BY AXL

▽ ESTIMATED SEASONAL HIGH 1.5 ft

NOTES _____

DATE PERFORMED 9/20/2023 **BORING NUMBER P-4**

DRILLING CONTRACTOR Whitaker Drilling, Inc.

GROUND WATER LEVELS: LOGGED BY WDI

▼ AT TIME OF DRILLING 8.8 ft CHECKED BY AXL

▽ ESTIMATED SEASONAL HIGH 2.5 ft

NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION	DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0.0				(SM) Brown silty SAND	0.0				(SP-SM) Brown and gray SAND with silt
2.5		AP 1		%PASS-200 = 15 MC = 9.7 k _r = 0.8 ft/day 2.0	2.5		AU 1		▽
5.0		AU 2		(SC) Brown, gray, and orange clayey SAND	5.0		AU 2		5.0
7.5				(SP-SM) Pale gray and pale brown SAND with silt	7.5		AU 3		7.5
10.0		AU 3			10.0		AU 4		10.0
12.5		AU 4		(CL/CH) Green CLAY with sand	12.5		AU 5		12.5
15.0				Bottom of borehole at 15.0 feet.	15.0				15.0
									(SC) Brown, gray, and orange clayey SAND
									(SC/CL) Brown, gray, and orange very clayey SAND
									(SP-SM) Pale brown and pale gray SAND with silt
									(CL/CH) Brown and gray CLAY with sand

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CLIENT Concept Development, Inc.

PROJECT NAME Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251

PROJECT LOCATION Lake City, Columbia County, Florida

DATE PERFORMED 9/20/2023 **BORING NUMBER P-5**
 DRILLING CONTRACTOR Whitaker Drilling, Inc.
 GROUND WATER LEVELS: LOGGED BY WDI
 ▼ AT TIME OF DRILLING 8.8 ft CHECKED BY AXL
 ▼ ESTIMATED SEASONAL HIGH 1.0 ft
 NOTES _____

DEPTH (ft)	GRAPHIC LOG	SAMPLE TYPE NUMBER	CPT (kg/cm ²)	MATERIAL DESCRIPTION
0.0				(SC) Brown and gray clayey SAND
2.5				▼
5.0		AP 1		%PASS-200 = 30 MC = 13 k _n = NF
5.5				
7.5		AU 2		(SP-SM) Brown, gray, and orange SAND with silt
10.0				▼
10.5				
12.5		AU 3		(CL/CH) Gray and brown CLAY with sand
12.5				
15.0		AU 4		(SP-SM) Brown and orange SAND with silt
15.0				
				Bottom of borehole at 15.0 feet.

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5.2 Standard Penetration Test Soil Boring Logs



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 Telephone: 3523773233

BORING NUMBER B-1

CLIENT Concept Development, Inc. **PROJECT NAME** Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251 **PROJECT LOCATION** Lake City, Columbia County, Florida

DATE STARTED 9/20/23 **COMPLETED** 9/20/23 **GROUND ELEVATION** _____ **HOLE SIZE** _____

DRILLING CONTRACTOR Whitaker Drilling, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Flight Auger **▼ AT TIME OF DRILLING** 6.5 ft

LOGGED BY WDI **CHECKED BY** AXL **▽ ESTIMATED SEASONAL HIGH** 3.5 ft

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	▲ SPT N VALUE ▲								
											20	40	60	80					
0		(SP-SM) Very loose brown SAND with silt																	
3		(CL) Firm to very stiff brown, gray, and orange sandy CLAY	3	SPT 1	1-1-1 (2)														
5				SPT 2	1-2-3 (5)														
7.5		(SP-SC) Medium dense brown, gray, and orange SAND with clay	7.5	SPT 3	4-6-9 (15)	35	18	17	56	17									
9.5		(SP) Medium dense pale gray and brown SAND	9.5	SPT 4	7-10-11 (21)														
12		(CL/CH) Firm to stiff green and orange CLAY	12	SPT 5	8-11-12 (23)														
15				SPT 6	9-10-14 (24)														
20		Bottom of borehole at 20.0 feet.	20	SPT 7	3-4-5 (9)														
				SPT 8	2-3-4 (7)														



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BORING NUMBER B-2

CLIENT Concept Development, Inc. **PROJECT NAME** Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251 **PROJECT LOCATION** Lake City, Columbia County, Florida

DATE STARTED 9/20/23 **COMPLETED** 9/20/23 **GROUND ELEVATION** _____ **HOLE SIZE** _____

DRILLING CONTRACTOR Whitaker Drilling, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Flight Auger **▼ AT TIME OF DRILLING** 6.1 ft

LOGGED BY WDI **CHECKED BY** AXL **▽ ESTIMATED SEASONAL HIGH** 3.5 ft

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	▲ SPT N VALUE ▲								
											20	40	60	80					
0		(SP-SM) Very loose gray and brown SAND with silt																	
			3	SPT 1	1-2-2 (4)														
		▽ (SM-SC) Very loose to medium dense gray, brown, and orange silty clayey SAND																	
				SPT 2	1-2-2 (4)														
5				SPT 3	2-4-6 (10)														
				SPT 4	7-9-8 (17)														
			8.5	SPT 5	7-8-10 (18)														
		(SP-SC) Very loose to medium dense pale gray and brown SAND with clay																	
				SPT 6	7-9-10 (19)														
10																			
		<i>Weight-of-Rod from 13.5 to 14.5 ft bls.</i>																	
			14.5	SPT 7	0-0-3 (3)														
15		(CL/CH) Soft gray sandy CLAY																	
			16.5																
		(CL/CH) Firm green and orange CLAY																	
				SPT 8	3-3-4 (7)														
20		Bottom of borehole at 20.0 feet.	20																



GSE Engineering
 5590 SW 64th St
 Gainesville, FL 32608
 Telephone: 3523773233

BORING NUMBER B-3

CLIENT Concept Development, Inc. **PROJECT NAME** Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251 **PROJECT LOCATION** Lake City, Columbia County, Florida

DATE STARTED 9/20/23 **COMPLETED** 9/20/23 **GROUND ELEVATION** _____ **HOLE SIZE** _____

DRILLING CONTRACTOR Whitaker Drilling, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Flight Auger **▼ AT TIME OF DRILLING** 6.1 ft

LOGGED BY WDI **CHECKED BY** AXL **▽ ESTIMATED SEASONAL HIGH** 3.5 ft

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	▲ SPT N VALUE ▲
0		(SP-SM) Very loose gray and brown SAND with silt									20 40 60 80
2.5		(SP) Loose pale gray SAND	2.5	SPT 1	1-1-1 (2)						
4.5		(SP-SC) Loose to gray and brown SAND with clay	4.5	SPT 2	1-2-4 (6)						
6		(SC/CL) Medium dense to dense gray, brown, and orange very clayey SAND	6	SPT 3	2-4-5 (9)						
				SPT 4	6-2-9 (11)						
				SPT 5	7-9-11 (20)						
				SPT 6	14-16-22 (38)						
13.5		(CL) Firm gray sandy CLAY	13.5	SPT 7	2-3-3 (6)	41	15	26	62	23	
16		(CL/CH) Green and orange CLAY	16								
20		Bottom of borehole at 20.0 feet.	20								



GSE Engineering
 5590 SW 64th St
 Gainesville, FL 32608
 Telephone: 3523773233

BORING NUMBER B-4

CLIENT Concept Development, Inc. **PROJECT NAME** Dollar General - Lake City SW Marvin Burnett
PROJECT NUMBER 16251 **PROJECT LOCATION** Lake City, Columbia County, Florida
DATE STARTED 9/20/23 **COMPLETED** 9/20/23 **GROUND ELEVATION** _____ **HOLE SIZE** _____
DRILLING CONTRACTOR Whitaker Drilling, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD Flight Auger **▼ AT TIME OF DRILLING** 6.5 ft
LOGGED BY WDI **CHECKED BY** AXL **▼ ESTIMATED SEASONAL HIGH** 3.5 ft
NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	▲ SPT N VALUE ▲								
											20	40	60	80					
0		(SP-SM) Very loose gray and brown SAND with silt																	
			3	SPT 1	1-1-2 (3)														
		▽ (SP) Medium dense pale gray and brown SAND																	
			5	SPT 2	4-7-11 (18)														
			6	SPT 3	7-5-6 (11)														
		▼ (SM-SC) Loose to medium dense gray, brown, and orange silty SAND with clay																	
			6	SPT 4	3-4-5 (9)														
			9	SPT 5	5-7-14 (21)				27	18									
		(SC) gray and brown clayey SAND																	
			9	SPT 6	12-10-9 (19)														
			13																
		(SP-SC) Medium dense gray, brown, and orange SAND with clay																	
			13	SPT 7	4-9-12 (21)														
			17																
		(CL/CH) Firm green and gray sandy CLAY																	
			17																
			20	SPT 8	3-3-4 (7)														
		Bottom of borehole at 20.0 feet.	20																



GSE Engineering
 5590 SW 64th St
 Gainesville, FL 32608
 Telephone: 3523773233

BORING NUMBER B-5

CLIENT Concept Development, Inc. **PROJECT NAME** Dollar General - Lake City SW Marvin Burnett

PROJECT NUMBER 16251 **PROJECT LOCATION** Lake City, Columbia County, Florida

DATE STARTED 9/20/23 **COMPLETED** 9/20/23 **GROUND ELEVATION** _____ **HOLE SIZE** _____

DRILLING CONTRACTOR Whitaker Drilling, Inc. **GROUND WATER LEVELS:**

DRILLING METHOD Flight Auger **▼ AT TIME OF DRILLING** 6.5 ft

LOGGED BY WDI **CHECKED BY** AXL **▽ ESTIMATED SEASONAL HIGH** 3.5 ft

NOTES _____

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	CONTACT DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX	PERCENT PASS NO. 200 SIEVE	MOISTURE CONTENT, %	▲ SPT N VALUE ▲								
											20	40	60	80					
0		(SP-SM) Very loose brown and gray SAND with silt																	
			3	SPT 1	1-1-2 (3)														
		▽ (SP) Medium dense pale brown and pale gray SAND		SPT 2	4-7-8 (15)														
5				SPT 3	10-11-13 (24)														
				SPT 4	10-8-9 (17)														
			8	SPT 5	7-8-11 (19)														
		(SP-SC) Medium dense to dense brown and orange SAND with clay		SPT 6	17-21-24 (45)				11	17									
10		(SP) Medium dense pale brown and gray SAND	10																
				SPT 7	5-7-9 (16)														
15																			
			17.5																
		(CL/CH) Hard pale gray sandy CLAY		SPT 8	8-14-19 (33)														
20		Bottom of borehole at 20.0 feet.	20																

5.3 Laboratory Results



SUMMARY REPORT OF LABORATORY TEST RESULTS


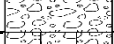




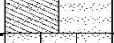
















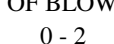
Project Number: 16251

Project Name: Dollar General - Lake City SW Marvin Burnett

Boring Number	Depth (ft)	Soil Description	Natural Moisture Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	Percent Passing No. 200 Sieve	Organic Content (%)	Hydraulic Conductivity (ft/day)	Unified Soil Classification
A-2	1-1.5	Dark brown and gray SAND with silt	8.7				11			SP-SM
A-4	3-3.5	Brown, gray, and orange very clayey SAND	18				34			SC/CL
B-1	4-5.5	Brown, gray, and orange sandy CLAY	17	35	18	17	56			CL
B-3	13.5-15	Gray sandy CLAY	23	41	15	26	62			CL
B-4	7-8.5	Gray, brown, and orange silty SAND with clay	18				27			SM-SC
B-5	8.5-10	Pale brown and gray SAND with clay	17				11			SP-SC
P-1	2-4	Gray and brown silty SAND	7.8				14		1.1	SM
P-3	0-2	Brown silty SAND	9.7				15		0.8	SM
P-5	3-5	Brown and gray clayey SAND	13				30		NF	SC

5.4 Key to Soil Classification

KEY TO SOIL CLASSIFICATION CHART

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests				SYMBOLS		GROUP NAME	
				GRAPHIC	LETTER		
COARSE-GRAINED SOILS More than 50% retained on No. 200 sieve	Gravels	Clean Gravels	$Cu \geq 4$ and $1 \leq Cc \leq 3$		GW	Well graded GRAVEL	
	More than 50% of coarse fraction retained on No. 4 sieve	Less than 5% fines	$Cu < 4$ and/or $1 > Cc > 3$		GP	Poorly graded GRAVEL	
		Gravels with fines	Fines classify as ML or MH		GM	Silty GRAVEL	
		More than 12% fines	Fines classify as CL or CH		GC	Clayey GRAVEL	
		Sands	Clean Sands	$Cu \geq 6$ and $1 \leq Cc \leq 3$		SW	Well graded SAND
	50% or more of coarse fraction passes No. 4 sieve	Less than 5% fines	$Cu < 6$ and/or $1 > Cc > 3$		SP	Poorly graded SAND	
		Sand with fines	Fines classify as ML or MH		SP-SM	SAND with silt	
		5% ≤ fines < 12%	Fines classify as CL or CH		SP-SC	SAND with clay	
		Sand with fines	Fines classify as ML or MH		SM	Silty SAND	
		12% ≤ fines < 30%	Fines classify as CL or CH		SC	Clayey SAND	
		Sand with fines	Fines classify as ML or MH		SM	Very silty SAND	
		30% fines or more	Fines classify as CL or CH		SC	Very clayey SAND	
		FINE-GRAINED SOILS 50% or more passes the No. 200 sieve	Clays	inorganic	$50\% \leq \text{fines} < 70\%$		CL/CH
	$70\% \leq \text{fines} < 85\%$				CL/CH	CLAY with sand	
$\text{fines} \geq 85\%$				CL/CH	CLAY		
Silts and Clays Liquid Limit less than 50	inorganic		$PI > 7$ and plots on/above "A" line		CL	Lean CLAY	
	$PI < 4$ or plots below "A" line			ML	SILT		
	organic		Liquid Limit - oven dried < 0.75		OL	Organic clay	
	Liquid Limit - not dried			OL	Organic silt		
Silts and Clays Liquid Limit 50 or more	inorganic		PI plots on or above "A" line		CH	Fat CLAY	
	PI plots below "A" line			MH	Elastic SILT		
	organic		Liquid Limit - oven dried < 0.75		OH	Organic clay	
	Liquid Limit - not dried		OH	Organic silt			
HIGHLY ORGANIC SOILS	Primarily organic matter, dark in color, and organic odor				PT	PEAT	

CORRELATION OF PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY

No. OF BLOWS, N	RELATIVE DENSITY	No. OF BLOWS, N	CONSISTENCY
0 - 4	Very Loose	0 - 2	Very Soft
5 - 10	Loose	3 - 4	Soft
SANDS:	11 - 30	Medium dense	SILTS & CLAYS: 5 - 8 Firm
	31 - 50	Dense	9 - 15 Stiff
OVER 50	Very Dense	16 - 30	Very Stiff
		31 - 50	Hard
		OVER 50	Very Hard

No. OF BLOWS, N	RELATIVE DENSITY
0 - 8	Very Soft
9 - 18	Soft
LIMESTONE: 19 - 32	Moderately Hard
33 - 50	Hard
OVER 50	Very Hard

SAMPLE GRAPHIC TYPE LEGEND



Location of SPT Sample



Location of Auger Sample

PARTICLE SIZE IDENTIFICATION

BOULDERS:	Greater than 300 mm
COBBLES:	75 mm to 300 mm
GRAVEL:	Coarse - 19.0 mm to 75 mm
	Fine - 4.75 mm to 19.0 mm
SANDS:	Coarse - 2.00 mm to 4.75 mm
	Medium - 0.425 mm to 2.00 mm
	Fine - 0.075 mm to 0.425 mm
SILTS & CLAYS:	Less than 0.075 mm

LABORATORY TEST LEGEND

LL =	Liquid Limit, %
PL =	Plastic Limit, %
PI =	Plasticity Index, %
% PASS - 200 =	Percent Passing the No. 200 Sieve
MC =	Moisture Content, %
ORG =	Organic Content, %
k_h =	Horizontal Hydraulic Conductivity, ft/day

6.0 LIMITATIONS

6.1 Warranty

This report has been prepared for our client for their exclusive use, in accordance with generally accepted soil and foundation engineering practices, and makes no other warranty either expressed or implied as to the professional advice provided in the report.

6.2 Auger and SPT Borings

The determination of soil type and conditions was performed from the ground surface to the maximum depth of the borings, only. Any changes in subsurface conditions that occur between or below the borings would not have been detected or reflected in this report.

Soil classifications that were made in the field are based upon identifiable textural changes, color changes, changes in composition or changes in resistance to penetration in the intervals from which the samples were collected. Abrupt changes in soil type, as reflected in boring logs and/or cross sections may not actually occur, but instead, be transitional.

Depth to the water table is based upon observations made during the performance of the auger and SPT borings. This depth is an estimate and does not reflect the annual variations that would be expected in this area due to fluctuations in rainfall and rates of evapotranspiration.

6.3 Site Figures

The measurements used for the preparation of the figures in this report were made using the provided site plan and by estimating distances from existing structures and site features. Figures in this report were not prepared by a licensed land surveyor and should not be interpreted as such.

6.4 Unanticipated Soil Conditions

The analysis and recommendations submitted in this report are based upon the data obtained from soil borings performed at the locations indicated on Figure 2. This report does not reflect any variations that may occur between these borings.

The nature and extent of variations between borings may not become known until excavation begins. If variations appear, we may have to re-evaluate our recommendations after performing on-site observations and noting the characteristics of any variations.

6.5 Misinterpretation of Soil Engineering Report

GSE Engineering & Consulting, Inc. is responsible for the conclusions and opinions contained within this report based upon the data relating only to the specific project and location discussed herein. If others make the conclusions or recommendations based upon the data presented, those conclusions or recommendations are not the responsibility of GSE.

FIGURES



NOT TO SCALE

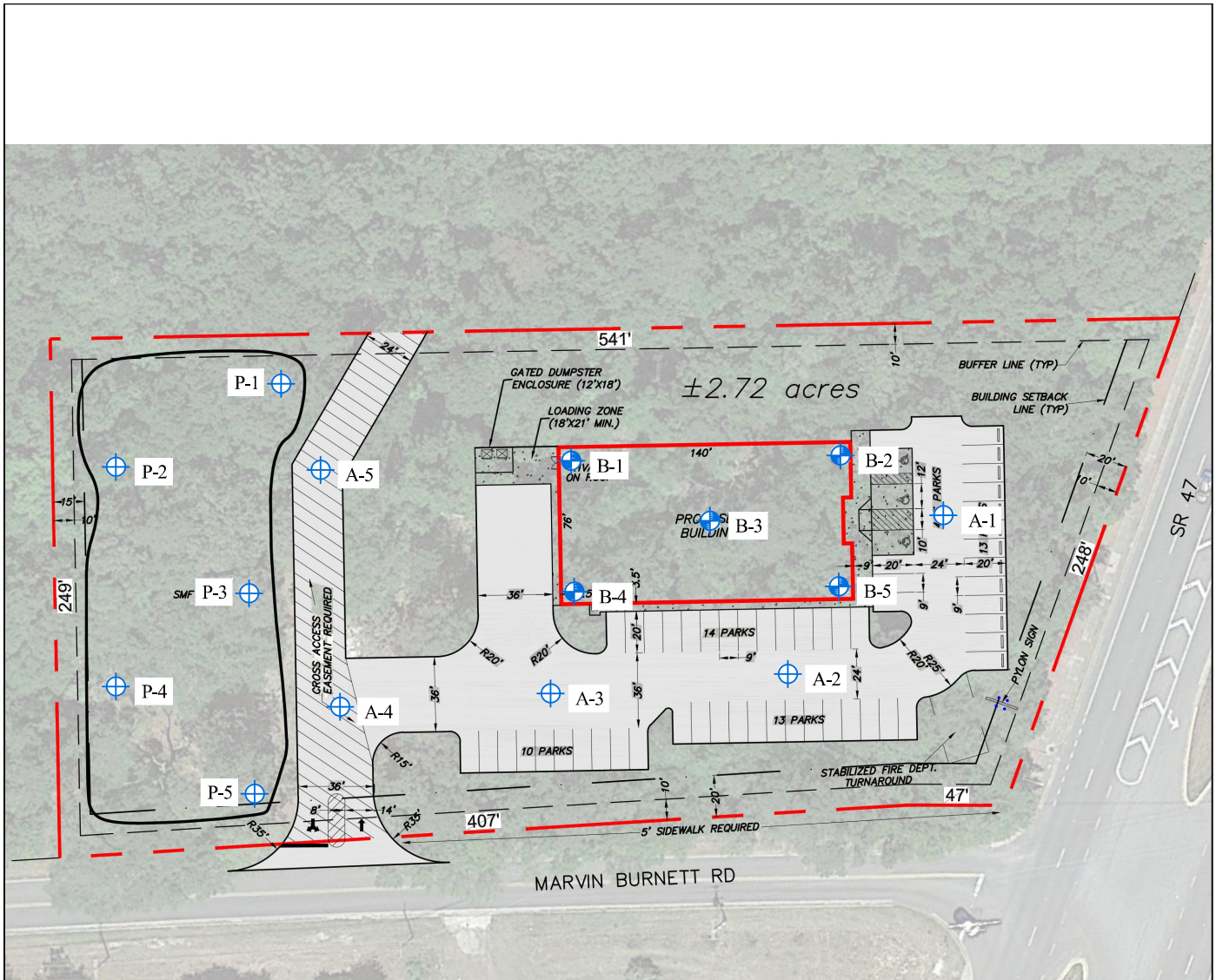
DOLLAR GENERAL - LAKE CITY
 SW MARVIN BURNETT
 LAKE CITY, COLUMBIA COUNTY, FLORIDA
 GSE PROJECT NO. 16251

PROJECT SITE LOCATION MAP



DESIGNED BY : AXL
 CHECKED BY : JEG
 DRAWN BY : EEW

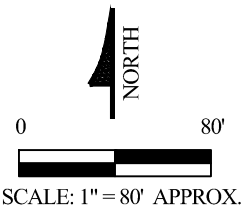


FIGURE
 1



LEGEND:

-  SPT BORING
-  AUGER BORING



DOLLAR GENERAL - LAKE CITY
 SW MARVIN BURNETT
 LAKE CITY, COLUMBIA COUNTY, FLORIDA
 GSE PROJECT NO. 15396

**SITE PLAN SHOWING APPROXIMATE LOCATIONS OF
 FIELD TESTS**

DESIGNED BY : AXL
 CHECKED BY : JEG
 DRAWN BY : AXL



FIGURE
 2



DEPARTMENT OF GROWTH MANAGEMENT
205 North Marion Avenue
Lake City, Florida 32055
Telephone: (386) 719-5750
growthmanagement@lcfla.com

REVIEW REPORT TO PLANNING AND ZONING, BOARD OF
ADJUSTMENT AND HISTORICAL COMMITTEES' BY STAFF
FOR SITE PLAN REVIEW, SPECIAL EXCEPTIONS, VARIANCES, COMPREHENSIVE
PLAN AMENDMENTS/ ZONING AND CERTIFICATE OF APPROPRIATENESS

Date: 03/21/2024

Request Type: Site Plan Review (SPR) Special Exception (SE) Variances (V)

Comprehensive Plan Amendment/Zoning (CPA/Z) Certificate of Appropriateness (COA)

Project Number: SPR24-05

Project Name: Commercial Retail Store- Dollar General

Project Address: TBD

Project Parcel Number: 08127-005

Owner Name: Concept Companies

Owner Address: 1449 SW 74th Dr. Suite 200

Owner Contact Information: Telephone Number: 352-333-3233 Email: _____

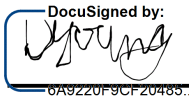
Owner Agent Name: Randall Olney, P.E.

Owner Agent Address: 11801 Research Drive, Alaucha, FL 32615

Owner Agent Contact Information: Telephone: 352-331-1976 Email: randyo@chw-inc.com

The City of Lake City staff has reviewed the application and documents provided for the above request and have determined the following.


Growth Management – Building Department, Planning and Zoning, Code Enforcement, Permitting

Building Department: Reviewed by:  **Date:** 3/22/2024


No comments at this time

Planning and Zoning: Reviewed by:  **Date:** 3/26/2024

The property is zoned Commercial Intensive. All permitted uses in Commercial General are permitted in Commercial Intensive per section 4.13.2. Retail stores are a permitted use per section 4.12.2.1.

Business License: Reviewed by:  **Date:** 3/22/2024

will need to apply for occupational license

Code Enforcement: Reviewed by:  **Date:** 3/22/2024

No liens, codes or violations

Permitting: Reviewed by:  **Date:** 3/22/2024

not at this time

Utilities – Water, Sewer, Gas, Water Distribution/Collections, Customer Service

Water Department: Reviewed by: DocuSigned by: Mike Osborn 996C03954874E3... **Date:** 3/22/2024

None at this time

Sewer Department: Reviewed by: DocuSigned by: Cody Pridgen DBA01EF55A02496... **Date:** 3/22/2024

None

Gas Department: Reviewed by: DocuSigned by: Steve Brown BB57DCEBF2F4B5... **Date:** 3/22/2024

Cannot comment wit no address.

Water Distribution/Collection: Reviewed by: DocuSigned by: Brian Scott F309EBB125784F8... **Date:** 4/2/2024

no comment at this time


Customer Service: Reviewed by: DocuSigned by: Skasta Pelham 8BBD87A03165D4E0... **Date:** 4/9/2024

A tap application will need to be submitted in order to request city utilities. The utility fees will be calculated upon approval of the tap application.


Public Safety – Public Works, Fire Department, Police Department

Public Works: Reviewed by:  **Date:** 3/22/2024

No comment.

Fire Department: Reviewed by:  **Date:** 3/22/2024

I have no issues

Police Department: Reviewed by:  **Date:** 3/22/2024

no concerns at this time

NOTE: Please provide separate pages for comments that will not fit in provided spaces and please label the pages for your department and for the project.

State and County- FDOT, Suwannee River Water Management, School Board, Columbia County

FDOT: Reviewed by: _____ Date: _____

[Empty box for FDOT review comments]

Suwannee River Water Management: Reviewed by:  Date: 3/25/2024

The project will require an ERP Permit. It is recommended that the applicant schedule a pre-application meeting with SRWMD staff to go over the permitting requirements.

School Board: Reviewed by:  Date: 3/25/2024

No comments at this time.

County: Reviewed by:  Date: 4/9/2024

A driveway permit will be required. The County is currently in the process of permitting several developments west of this location along Bascom Norris Drive. For that reason, we ask that the applicant and agencies pay careful attention to the traffic issue. This comment is provided by the County Engineer based only on the information contained in the application provided. This response does not constitute the engineer's professional opinion with respect to the project and does not constitute approval of any committee or board for Columbia County.

NOTE: Please provide separate pages for comments that will not fit in provided spaces and please label the pages for your department and for the project.

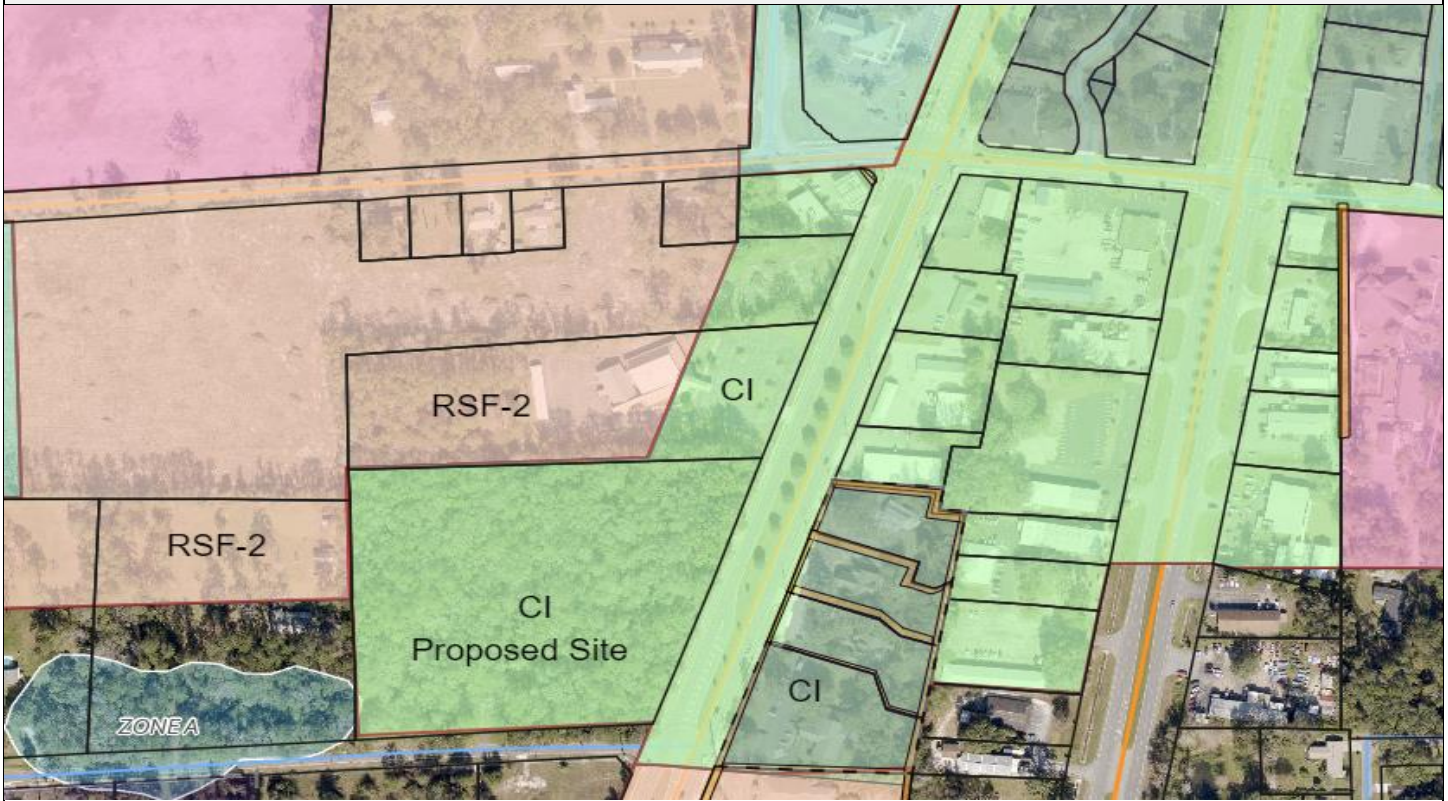
LAKE CITY GROWTH MANAGEMENT STAFF ANALYSIS REPORT

Project Information	
Project Name and Case No.	Dollar General site plan review
Applicant	Randall Olney, PE
Owner	Concept Companies
Requested Action	Site plan review for Dollar General, retail store, on parcel 08127-005
Hearing Date	05-14-2024
Staff Analysis/Determination	Sufficient for Review
Prepared By	Robert Angelo

Subject Property Information	
Size	+/- 2.70 Acres
Location	Corner of Marvin Burnett and Hwy 47
Parcel Number	08127-000
Future Land Use	Commercial
Proposed Future Land Use	Commercial
Current Zoning District	Commercial Intensive
Proposed Zoning	Commercial Intensive
Flood Zone-BFE	Flood Zone X and A Base Flood Elevation-N/A

Land Use Table				
Direction	Future Land Use	Zoning	Existing Use	Comments
N	Residential Moderate	RSF-2	Residential	
E	Residential Moderate	RSF-2	Residential	
S	County		Vacant	County Jurisdiction
W	Commercial	CI	Medical Office	

Map of Location



Picture of Location



Summary of Request

Applicant has petitioned for a site plan review for the above parcels to build a retail store.

Commercial Retail Store SW Marvin Burnett Rd. *Site Plan Application*





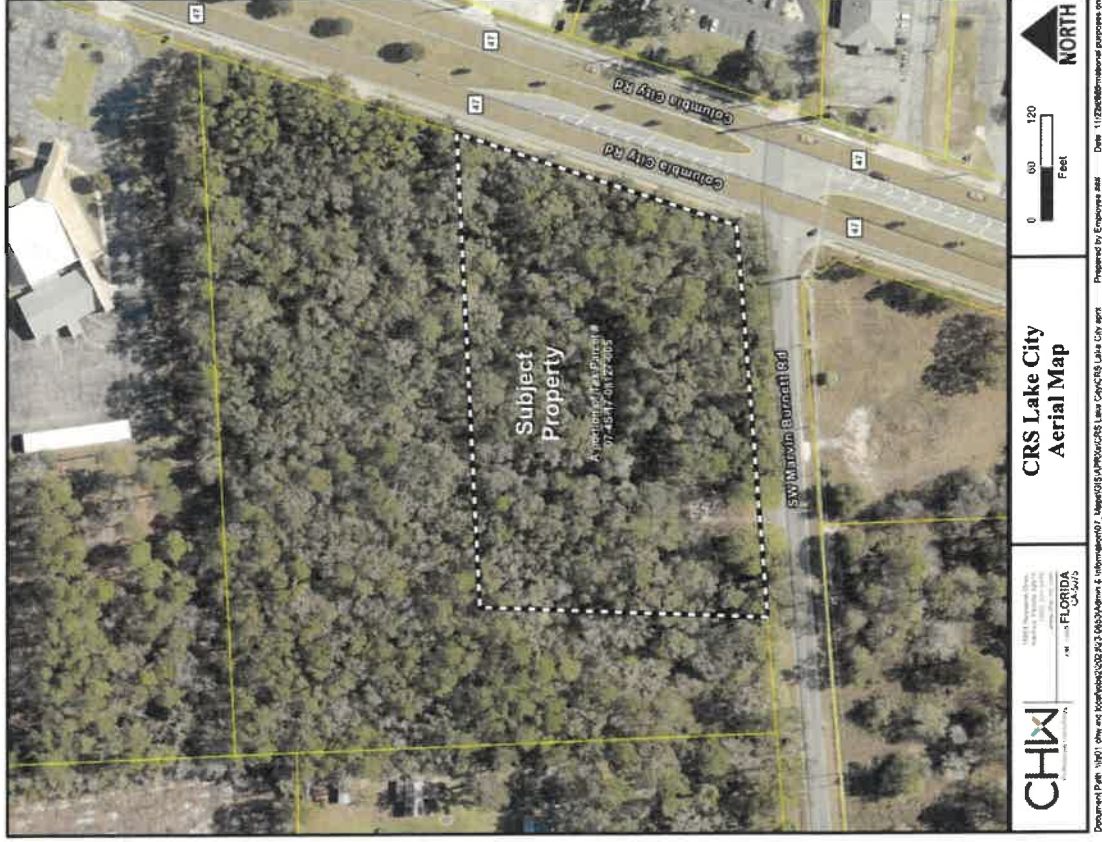
Context Map

APPLICATION TYPE:

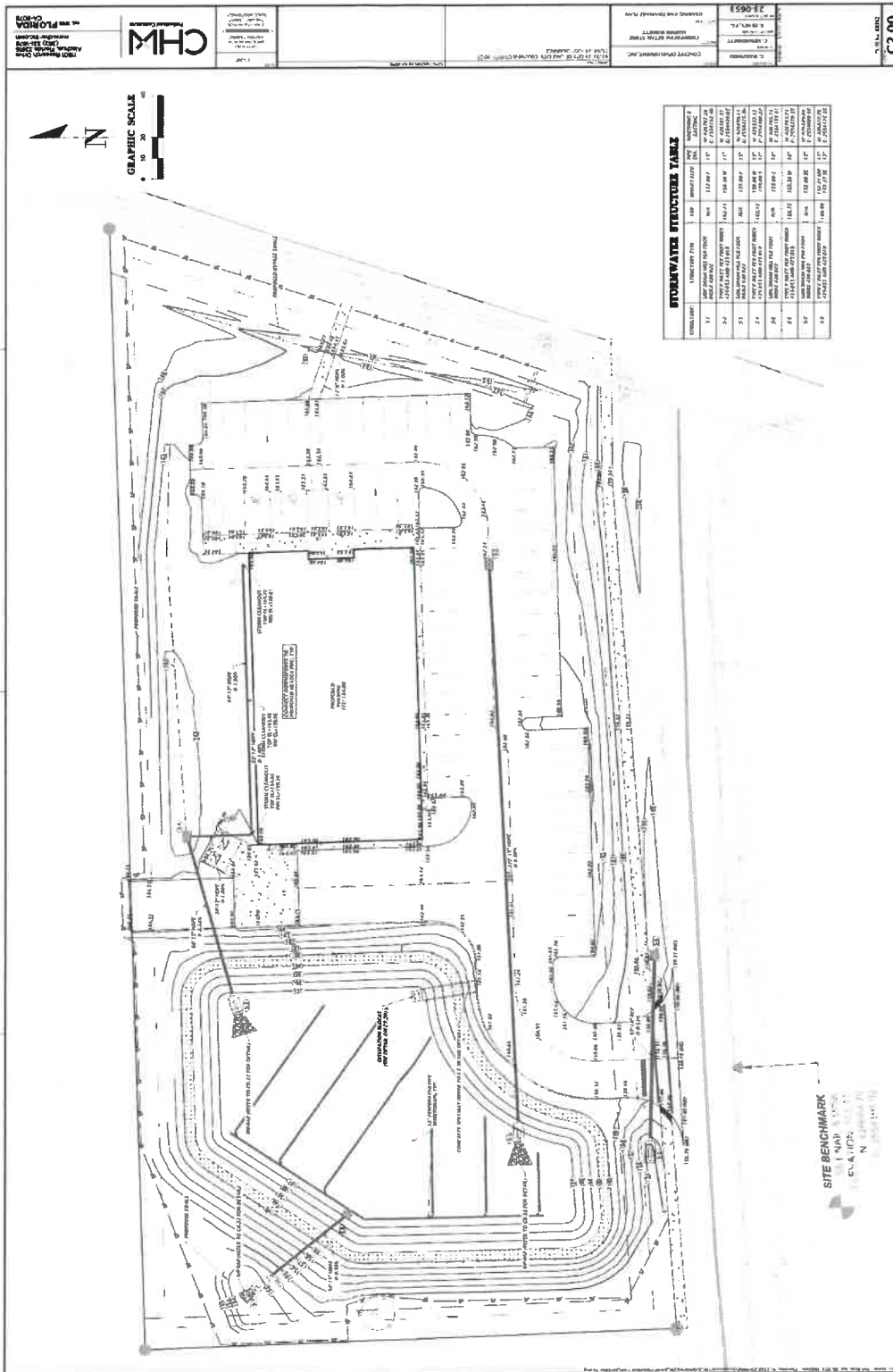
Site Plan

INTENT:

Construct a 10,640 SF Commercial Retail Store with associated parking, utility infrastructure, and stormwater management system on Columbia County tax parcel #08127-005.



Development Plan



Contact Information

Cole Menhennett, El
Address: 11801 Research Drive
Alachua, FL 32615
Phone: 386.518.6514
Email: cole.menhennett@nv5.com



A photograph of a wooded area. In the foreground, a white rectangular sign with the words "PUBLIC NOTICE" in red capital letters is mounted on a metal frame. The ground is covered with dry, brown pine needles and some sparse green grass. The background is a dense thicket of green trees and bushes. Two white circular markers are visible in the upper part of the image, likely for scale or reference.

PUBLIC NOTICE

**CITY OF LAKE CITY
NOTICE
LAND USE ACION**

A PUBLIC HEARING IS SCHEDULED TO CONSIDER A REQUEST FOR:

SPR24.05, a petition by Randall Olney, P.E., as agent, to request a Site Plan Review approval be granted as provided for in Section 4.13 of the Land Development Regulations, to get approval on site plan for Dollar General for a property located in the Commercial Intensive zoning district, in accordance with the submittal of the petition dated March 21, 2024, to be located on parcels 08127-005

WHEN;	June 11, 2024 at 5:30pm or as soon after.
WHERE:	City Council Meeting Room, Second Floor, City Hall, located at 205 North Marion Avenue, Lake City, Florida. Members of the public may also view the meeting on our YouTube channel at: https://www.youtube.com/c/CityofLakeCity .

Copies of the site plan application are available for public inspection by contacting the Growth Management office at growthmanagement@lcfla.com or by calling 386-719-5820.

At the aforementioned public hearing, all interested parties may be heard with respect to the amendment.

**FOR MORE INFORMAITON CONTACT
ROBERT ANGELO
PLANNING AND ZONING TECHNICIAN
AT 386-719-5820**

Angelo, Robert

From: LCR-Classifieds <classifieds@lakecityreporter.com>
Sent: Tuesday, May 28, 2024 11:00 AM
To: Angelo, Robert
Subject: RE: 78430 78431 78432 RE: Non-Legal Ad for P&Z, BOA, and HPA for 06-11-2024

Confirmed!

Thank you much,
Kymerlee Harrison 386-754-0401
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PH 386-754-0401

Why Local Newsprint Advertising?

- 1 Newspaper readers are ENGAGED
- 2 Newspapers are viewed as TRUSTWORTHY

From: Angelo, Robert <AngeloR@lcfla.com>
Sent: Tuesday, May 28, 2024 10:59 AM
To: LCR-Classifieds <classifieds@lakecityreporter.com>
Subject: RE: 78430 78431 78432 RE: Non-Legal Ad for P&Z, BOA, and HPA for 06-11-2024

Looks Good

Thank You
Robert Angelo
City of Lake City
Growth Management
growthmanagement@lcfla.com
386-719-5820



PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from City officials regarding City business are public records available to the public and media upon request. Your email communications may be subject to public disclosure.

From: LCR-Classifieds <classifieds@lakecityreporter.com>
Sent: Tuesday, May 28, 2024 10:37 AM
To: Angelo, Robert <AngeloR@lcfla.com>
Subject: 78430 78431 78432 RE: Non-Legal Ad for P&Z, BOA, and HPA for 06-11-2024

Here you go!
P&Z 2x8 247.50

Historic: 2x6.25 206.25
BOA: 2x6 198.00

Thank you much,
Kymerlee Harrison 386-754-0401
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PH 386-754-0401

Why Local Newsprint Advertising?

- 1** Newspaper readers are ENGAGED
- 2** Newspapers are viewed as TRUSTWORTHY

From: Angelo, Robert <AngeloR@lcfla.com>
Sent: Friday, May 24, 2024 3:49 PM
To: LCR-Classifieds <classifieds@lakecityreporter.com>
Subject: Non-Legal Ad for P&Z, BOA, and HPA for 06-11-2024

Kym

Please publish this ad in the body of the paper as a display ad in the **May 30, 2024** paper.

Thank You
Robert Angelo
City of Lake City
Growth Management
growthmanagement@lcfla.com
386-719-5820



PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from City officials regarding City business are public records available to the public and media upon request. Your email communications may be subject to public disclosure.

**NOTICE OF PUBLIC MEETING
CITY OF LAKE CITY
PLANNING AND ZONING BOARD**

THIS SERVES AS PUBLIC NOTICE the Planning and Zoning Board will hold a meeting on Tuesday, June 11, 2024 at 5:30 PM or as soon after.

Agenda items-

1. SPR 24-05, Petition submitted by Randall Olney, P.E., (agent) for Concept Companies, (owner), for a Site Plan Review for Dollar General, in a Commercial Intensive zoning district, and located on parcel 08127-005, which is regulated by the Land Development Regulations Section 4.13.
2. SPR 24-06, Petition submitted by Christopher A. Gmuer, P.E., (agent) for ERA Investments, LLC, (owner), for a Site Plan Review for Lake City Hotels Phase 2, in a Commercial Intensive zoning district, and located on parcel 02582-002, which is regulated by the Land Development Regulations Section 4.13.
3. SPR 23-10, Petition submitted by Carol Chadwick, P.E., (agent) for Affiliated Property Management, (owner), for a Site Plan Review for Aspire Dental Addition, in a Residential Office zoning district, and located on parcel 07604-102, which is regulated by the Land Development Regulations Section 4.10.

Meeting Location: City Council Chambers located on the 2nd Floor of City Hall at 205 North Marion Avenue, Lake City, FL 32055.

Members of the public may also view the meeting on our YouTube channel at:

<https://www.youtube.com/c/CityofLakeCity>

Pursuant to 286.0105, Florida Statutes, the City hereby advises the public if a person decides to appeal any decision made by the City with respect to any matter considered at its meetings or hearings, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

SPECIAL REQUIREMENTS: Pursuant to 286.26, Florida Statutes, persons needing special accommodations to participate in this meeting should contact the City Manager's Office at (386) 719-5768.

Robert Angelo
Planning and Zoning Tech.

**CITY OF LAKE CITY CUSTOMER SERVICE BUILDING
173 NW HILLSBORO STREET
LAKE CITY, FL 32055**

**NOTICE OF PUBLIC MEETING
CITY OF LAKE CITY
PLANNING AND ZONING BOARD**

THIS SERVES AS PUBLIC NOTICE the Planning and Zoning Board will hold a meeting on Tuesday, June 11, 2024 at 5:30 PM or as soon after.

Agenda items-

1. **SPR 24-05**, Petition submitted by Randall Olney, P.E., (agent) for Concept Companies, (owner), for a Site Plan Review for Dollar General, in a Commercial Intensive zoning district, and located on parcel 08127-005, which is regulated by the Land Development Regulations Section 4.13.
2. **SPR 24-06**, Petition submitted by Christopher A. Gmuer, P.E., (agent) for ERA Investments, LLC, (owner), for a Site Plan Review for Lake City Hotels Phase 2, in a Commercial Intensive zoning district, and located on parcel 02582-002, which is regulated by the Land Development Regulations Section 4.13.
3. **SPR 23-10**, Petition submitted by Carol Chadwick, P.E., (agent) for Affiliated Property Management, (owner), for a Site Plan Review for Aspire Dental Addition, in a Residential Office zoning district, and located on parcel 07604-102, which is regulated by the Land Development Regulations Section 4.10.

Meeting Location: City Council Chambers located on the 2nd Floor of City Hall at 205 North Marion Avenue, Lake City, FL 32055.

Members of the public may also view the meeting on our YouTube channel at: <https://www.youtube.com/c/CityofLakeCity>

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SPECIAL REQUIREMENTS: Pursuant to 286.26, Florida Statutes, persons needing special accommodations to participate in this meeting should contact the City Manager's Office at (386) 719-5768.

Robert Angelo
Planning and Zoning Tech.

A photograph of a wooded area. In the foreground, a white rectangular sign with the words "PUBLIC NOTICE" in red capital letters is mounted on a metal stake. The ground is covered with dry, brown pine needles and some sparse green grass. The background is a dense thicket of green trees and bushes. Two white circular markers are visible in the upper part of the image, likely for scale or reference.

PUBLIC NOTICE



**CITY OF LAKE CITY
NOTICE
LAND USE ACTION**

A PUBLIC HEARING IS SCHEDULED TO CONSIDER A REQUEST FOR:

SPR24.05, a petition by Randall Olney, P.E., as agent, to request a Site Plan Review approval be granted as provided for in Section 4.13 of the Land Development Regulations, to get approval on site plan for Dollar General for a property located in the Commercial Intensive zoning district, in accordance with the submittal of the petition dated March 21, 2024, to be located on parcels 08127-005

WHEN: May 14, 2024
5:30 p.m.

WHERE: City Council Meeting Room, Second Floor, City Hall, located at 205 North Marion Avenue, Lake City, Florida.
Members of the public may also view the meeting on our YouTube channel at:
<https://www.youtube.com/c/CityofLakeCity>.

Copies of the site plan review application are available for public inspection by contacting the Office of Growth Management at growthmanagement@lcfla.com or by calling 386.719.5820.

At the aforementioned public hearing, all interested parties may be heard with respect to the Certificate of Appropriateness.

**FOR MORE INFORMATION CONTACT
ROBERT ANGELO
PLANNING & ZONING TECHNICIAN
AT 386.719.5820**

NOTICE OF PUBLIC MEETING CITY OF LAKE CITY PLANNING AND ZONING BOARD

THIS SERVES AS PUBLIC NOTICE the Planning and Zoning Board will hold a meeting on Tuesday, May 14, 2024 at 5:30 PM or as soon after.

Agenda items-

1. **SPR 24-05**, Petition submitted by Randall Olney, P.E., (agent) for Concept Companies, (owner), for a Site Plan Review for Dollar General, in a Commercial Intensive zoning district, and located on parcel 08127-005, which is regulated by the Land Development Regulations Section 4.13.
2. **LDR 24-04**, Text amendment to the Land Development Regulations Sections 2.1, 4.2, 4.4, 4.5 and 4.6, to add definitions and add provisions for ADU's, Accessory Dwelling Units, and Tiny Homes for the City of Lake City.

Meeting Location: City Council Chambers located on the 2nd Floor of City Hall at 205 North Marion Avenue, Lake City, FL 32055.

Members of the public may also view the meeting on our YouTube channel at: <https://www.youtube.com/c/CityofLakeCity>

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SPECIAL REQUIREMENTS: Pursuant to 286.26, Florida Statutes, persons needing special accommodations to participate in this meeting should contact the City Manager's Office at (386) 719-5768.

Robert Angelo
Planning and Zoning Tech.

NOTICE OF PUBLIC MEETING CITY OF LAKE CITY PLANNING AND ZONING BOARD

THIS SERVES AS PUBLIC NOTICE the Planning and Zoning Board will hold a meeting on Tuesday, May 14, 2024 at 5:30 PM or as soon after.

Agenda items-

1. **SPR 24-05**, Petition submitted by Randall Olney, P.E., (agent) for Concept Companies, (owner), for a Site Plan Review for Dollar General, in a Commercial Intensive zoning district, and located on parcel 08127-005, which is regulated by the Land Development Regulations Section 4.13.
2. **LDR 24-04**, Text amendment to the Land Development Regulations Sections 2.1, 4.2, 4.4, 4.5 and 4.6, to add definitions and add provisions for ADU's, Accessory Dwelling Units, and Tiny Homes for the City of Lake City.

Meeting Location: City Council Chambers located on the 2nd Floor of City Hall at 205 North Marion Avenue, Lake City, FL 32055.

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SPECIAL REQUIREMENTS: Pursuant to 286.26, Florida Statutes, persons needing special accommodations to participate in this meeting should contact the City Manager's Office at (386) 719-5768.

Robert Angelo
Planning and Zoning Tech.

Angelo, Robert

From: LCR-Classifieds <classifieds@lakecityreporter.com>
Sent: Monday, April 29, 2024 11:20 AM
To: Angelo, Robert
Subject: 73990 73992 73991 RE: Non-Legal Ad for P&Z, BOA, and HPA for 05-14-2024
Attachments: 73991.pdf; 73992.pdf; 73990.pdf

Robert, all are scheduled to publish on May 2. Approval due by tomorrow please
P&Z: 3 col x 5.5 \$272.25
Historic: 3 col x 4.5 \$222.75
BOA: 3 col x 4 \$198

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Kymerlee Harrison 386-754-0401
Support your local news source while reaching our community of loyal subscribers

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1086 SW Main Blvd. Ste 103, Lake City, FL 32055

PH 386-754-0401

Why Local Newsprint Advertising?

- 1 Newspaper readers are ENGAGED
- 2 Newspapers are viewed as TRUSTWORTHY

From: Angelo, Robert <AngeloR@lcfla.com>
Sent: Monday, April 29, 2024 8:57 AM
To: LCR-Classifieds <classifieds@lakecityreporter.com>
Subject: Non-Legal Ad for P&Z, BOA, and HPA for 05-14-2024

Kym

Please publish this ad in the body of the paper as a display ad in the **May 2, 2024** paper.

Thank You
Robert Angelo
City of Lake City
Growth Management
growthmanagement@lcfla.com
386-719-5820



PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from City officials regarding City business are public records available to the public and media upon request. Your email communications may be subject to public disclosure.



NOTICE OF PUBLIC MEETING CITY OF LAKE CITY PLANNING AND ZONING BOARD

THIS SERVES AS PUBLIC NOTICE the Planning and Zoning Board will hold a meeting on Tuesday, May 14, 2024 at 5:30 PM or as soon after.

Agenda items-

1. **SPR 24-05**, Petition submitted by Randall Olney, P.E., (agent) for Concept Companies, (owner), for a Site Plan Review for Dollar General, in a Commercial Intensive zoning district, and located on parcel 08127-005, which is regulated by the Land Development Regulations Section 4.13.
2. **LDR 24-04**, Text amendment to the Land Development Regulations Sections 2.1, 4.2, 4.4, 4.5 and 4.6, to add definitions and add provisions for ADU's, Accessory Dwelling Units, and Tiny Homes for the City of Lake City.

Meeting Location: City Council Chambers located on the 2nd Floor of City Hall at 205 North Marion Avenue, Lake City, FL 32055.

Members of the public may also view the meeting on our YouTube channel at: <https://www.youtube.com/c/CityofLakeCity>

Pursuant to 286.0105, Florida Statutes, the City hereby advises the public if a person decides to appeal any decision made by the City with respect to any matter considered at its meetings or hearings, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

SPECIAL REQUIREMENTS: Pursuant to 286.26, Florida Statutes, persons needing special accommodations to participate in this meeting should contact the City Manager's Office at (386) 719-5768.

Robert Angelo
Planning and Zoning Tech.



April 22, 2024

To Whom it May Concern

On May 14, 2024 the Planning and Zoning Board will be having a meeting at 5:30pm at 205 N. Marion. At this meeting we will be hearing a petition submitted by Randall Olaney, PE, as agent, for Concept Companies, owner, for a site plan review, SPR24-05, for parcel 08127-005, The site plan is to build a retail store-Dollar General located within the Commercial Intensive (CI) zoning district.

If you have any questions or concerns please call 386-752-2031 ext. 820 or email growthmanagement@lcfla.com.

Robert Angelo

Planning and Zoning Tech
City of Lake City

Columbia County Property Appraiser - Sales Report

Name	Address1	Address2	Address3	City	State	ZIP
FRENVEY, INC	P O BOX 2095	.	LAKE CITY	FL	32056	
ST JOHNS LLC	13820 W NEWBERRY RD STE 100	.	NEWBERRY	FL	32669	
VANN SAMUEL P SR TRUST ETAL	131 W DUVAL STREET	.	LAKE CITY	FL	32055	
NFD DEVELOPERS LLC	P O BOX 2166	.	LAKE CITY	FL	32056	
GARR KENNETH	229 SW MARVIN BURNETT RD	.	LAKE CITY	FL	32024	
BAKER CHESTER	47 BURNT SWAMPP RD	.	EAST KINGSTON	NH	03827	
JAA INVESTMENT PROPERTIES, LLC	312 SW PILOTS WAY	.	LAKE CITY	FL	32024	
LAKE CITY CHURCH OF CHRIST INC	656 SW STATE RD 47	.	LAKE CITY	FL	32025	
KAMPMeyer ERVIN L LIVING TRUST	681 SW ST RD 47	.	LAKE CITY	FL	32025	
MARTIN CELIA S AS TRUSTEE	CELIA S MARTIN REV TRUST	973 SW STATE RD 47	LAKE CITY	FL	32025	
HAYDEN DONALD B	733 SW SR 47	.	LAKE CITY	FL	32025	
POLMERSKI LAVONNA B	423 NW CLUBVIEW CR	.	LAKE CITY	FL	32055	
CANCER CENTERS OF NORTH FLORIDA LLC	PO BOX 80610	.	INDIANAPOLIS	IN	46280	
CIVITAN REGIONAL BLOOD CENTER INC	D/B/A LIFESOUTH COMMUNITY BLOOD CENTERS, INC	4039 NEWBERRY RD	GAINESVILLE	FL	32607	
LAKE CITY, COLUMBIA COUNTY CHAMBER OF COMMERCE, INC	875 SW SR 47	.	LAKE CITY	FL	32025	

GIS Buffer



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1340

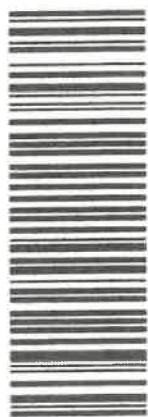
2010

2680

300

CHW

11801 Research Dr
Alachua, FL. 32615



7022 3330 0001 1921 3117

FRENVEY, INC
PO BOX:2095
LAKE CITY, FL 32056

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US POSTAGESM PITNEY BOWES
ZIP 32615
02 7H
0001252164
APR 23 2024
\$ 008.690

CHW

11801 Research Dr
Alachua, FL. 32615



7022 3330 0001 1921 3117

ST JOHNS LLC
13820 W NEWBERRY RD STE 100
NEWBERRY, FL 32669

CERTIFIED MAIL

FIRST-CLASS



US POSTAGESM PITNEY BOWES
ZIP 32615
02 7H
0001252164
APR 23 2024
\$ 008.690

CERTIFIED MAIL

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- Print your name and address on the reverse so that we can return the card to you.
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1. Article Addressed to:
FRENEY, INC
PO BOX 2095
LAKE CITY, FL 32056



2. Article Number (Transfer from service label)
9590 9402 8047 2349 1485 30
7022 3330 0001 1921 3117

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

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- D. Is delivery address different from item 1? Yes No
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3. Service Type

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- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail (Over \$500)
- Insured Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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ST JOHNS LLC
13820 W NEWBERRY RD STE 100
NEWBERRY, FL 32669



2. Article Number (Transfer from service label)
9590 9402 8047 2349 1485 09
7022 3330 0001 1921 3117

PS Form 3811, July 2020 PSN 7530-02-000-9053

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- B. Received by (Printed Name)
- C. Date of Delivery
- D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

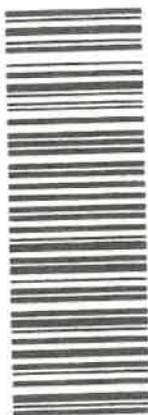
3. Service Type

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- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail (Over \$500)
- Insured Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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Alachua, FL. 32615



7022 3330 0001 1921 3124

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VANN SAMUEL P SR TRUST ETAL
131 W DUVAL STREET
LAKE CITY, FL 32055

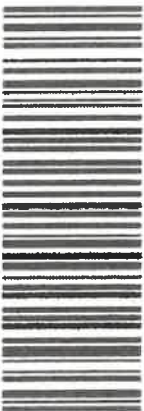
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11801 Research Dr
Alachua, FL. 32615



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CERTIFIED MAIL

NFD DEVELOPERS LLC
PO BOX 2166
LAKE CITY, FL 32056

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ZIP 32615
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0001252164 APR 23 2024
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VANN SAMUEL P SR TRUST ETAL
131 W DUVAL STREET
LAKE CITY, FL 32055



9590 9402 8047 2349 1484 83
 2. Article Number (Transfer from service label)
7022 3330 0001 1921 3124

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COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
- Addressee
- B. Received by (Printed Name)
- C. Date of Delivery
- D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

- 3. Service Type
 - Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

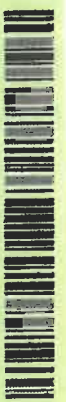
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1. Article Addressed to:
NFD DEVELOPERS LLC
PO BOX 2166
LAKE CITY, FL 32056



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 2. Article Number (Transfer from service label)
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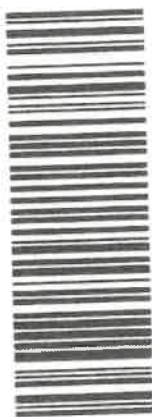
- A. Signature Agent
- Addressee
- B. Received by (Printed Name)
- C. Date of Delivery
- D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

- 3. Service Type
 - Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

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11801 Research Dr
Alachua, FL. 32615



7022 3330 0001 1921 3148

GARR KENNETH
299 SW MARVIN BURNETT RD
LAKE CITY, FL 32024

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11801 Research Dr
Alachua, FL. 32615



7022 3330 0001 1921 3155

BAKER CHESTER
47 BURNT SWAMPP RD
EAST KINGSTON, NH 03827

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\$ 008.690

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
GARR KENNETH
299 SW MARVIN BURNETT RD
LAKE CITY, FL 32024



9590 9402 8047 2349 1484 79
 2. Article Number (Transfer from service label)
7022 3330 0001 1921 3148

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature **X**
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- C. Date of Delivery

D. Is delivery address different from item 1? Yes
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3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
BAKER CHESTER
47 BURNT SWAMP RD
EAST KINGSTON, NH 03827



9590 9402 8047 2349 1484 62
 2. Article Number (Transfer from service label)
7022 3330 0001 1921 3155

PS Form 3811, July 2020 PSN 7530-02-000-9053

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- B. Received by (Printed Name)
- C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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CERTIFIED MAIL

CHW
11801 Research Dr
Alachua, FL 32615

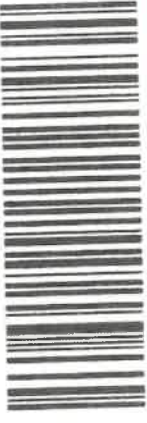


7022 3330 0001 1921 3162

JAA INVESTMENT PROPERTIES, LLC
312 SW PILOTS WAY
LAKE CITY, FL 32024

CERTIFIED MAIL

CHW
11801 Research Dr
Alachua, FL 32615



7022 3330 0001 1921 3179

LAKE CITY CHURCH OF CHRIST INC
656 SW STATE RD 47
LAKE CITY, FL 32025

FIRST-CLASS



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ZIP 32615
02 7H
0001252164 APR 23 2024
\$ 008.690

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ZIP 32615
02 7H
0001252164 APR 23 2024
\$ 008.690

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS

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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
JAA INVESTMENT PROPERTIES, LLC
312 SW PILOTS WAY
LAKE CITY, FL 32024



9590 9402 8047 2349 1484 55
 2. Article Number (Transfer from service label)
7022 3330 0001 1921 3162

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent Addressee
- B. Received by (Printed Name)
- C. Date of Delivery
- D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

PRINTED AT TOP, RETURN NUMBER BELOW
 HIGH END OF ENVELOPE TO PLACE STICKER'S LABEL

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
LAKE CITY CHURCH OF CHRIST INC
656 SW STATE RD 47
LAKE CITY, FL 32025



9590 9402 8047 2349 1484 48
 2. Article Number (Transfer from service label)
7022 3330 0001 1921 3179

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent Addressee
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 If YES, enter delivery address below: No

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 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

CERTIFIED MAIL

CHW
11801 Research Dr
Alachua, FL. 32615



7022 3330 000J 192J 318B

KAMPMEYER ERVIN L LIVING TRUST
681 SW ST RD 47
LAKE CITY, FL 32025

FIRST-CLASS



US POSTAGE imPTNEY BOWES
ZIP 32615
02 7H
0001252164 APR 23 2024
\$ 008.690

CERTIFIED MAIL

CHW
11801 Research Dr
Alachua, FL. 32615



7022 3330 000J 192J 3193

MARTIN CELIA S AS TRUSTEE
CELIA S MARVIN REV TRUST
973 SW STATE RD 47
LAKE CITY, FL 32025

FIRST-CLASS

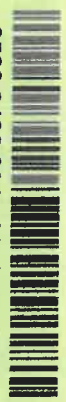


US POSTAGE imPTNEY BOWES
ZIP 32615
02 7H
0001252164 APR 23 2024
\$ 008.690

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
KAMPMEYER ERVIN L LIVING TRUST
681 SW ST RD 47
LAKE CITY, FL 32025



9590 9402 8047 2349 1484 31

2. Article Number (Transfer from service label)
7022 3330 0001 1921 3186

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent Addressee
- B. Received by (Printed Name) X
- C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
MARTIN CELIA S AS TRUSTEE
CELIA S MARVIN REV TRUST
973 SW STATE RD 47
LAKE CITY, FL 32025



9590 9402 8047 2349 1484 24

2. Article Number (Transfer from service label)
7022 3330 0001 1921 3193

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature X Agent Addressee
- B. Received by (Printed Name)
- C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

CERTIFIED MAIL®

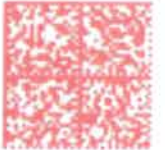
CHW
11801 Research Dr
Alachua, FL. 32615



7022 3330 0001 1921 3216

HAYDEN DONALD B
733 SW SR 47
LAKE CITY, FL 32025

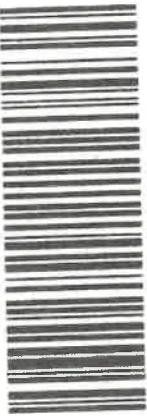
FIRST-CLASS



US POSTAGE™
PITNEY BOWES
ZIP 32615
02 7H
0001252164 APR 23 2024
\$ 008.690

CERTIFIED MAIL

CHW
11801 Research Dr
Alachua, FL. 32615



7022 3330 0001 1921 3216

POLMERSKI LAVONNA B
423 NW CLUBVIEW CR
LAKE CITY, FL 32055

FIRST-CLASS



US POSTAGE™
PITNEY BOWES
ZIP 32615
02 7H
0001252164 APR 23 2024
\$ 008.690

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

HAYDEN DONALD B.
733 SW SR 47
LAKE CITY, FL 32025



9590 9402 8047 2349 1484 17

2. Article Number (Transfer from service label)

7022 3330 0001 1921 3209

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
- B. Received by (Printed Name) Addressee
- C. Date of Delivery
- D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

POLMERSKI LAVONNA B
423 NW CLUBVIEW CR
LAKE CITY, FL 32055



9590 9402 8047 2349 1479 53

2. Article Number (Transfer from service label)

7022 3330 0001 1921 3216

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
- B. Received by (Printed Name) Addressee
- C. Date of Delivery
- D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

CERTIFIED MAIL

CHW
11801 Research Dr
Alachua, FL 32615



7022 3330 000J 192J 3223

LAKE CITY, COLUMBIA COUNTY
CHAMBER OF COMMERCE, INC
875 SW SR 47
LAKE CITY, FL 32025

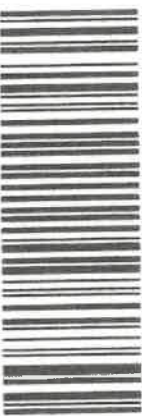
FIRST-CLASS



US POSTAGE McPITNEY BOWES
ZIP 32615
02 7H
0001252164 APR 23 2024
\$ 008.690

CERTIFIED MAIL

CHW
11801 Research Dr
Alachua, FL 32615



7022 3330 000J 192J 3339

CANCER CENTERS OF NORTH FLORIDA
LLC
PO BOX 80610
INDIANAPOLIS, IN 46280

FIRST-CLASS



US POSTAGE McPITNEY BOWES
ZIP 32615
02 7H
0001252164 APR 23 2024
\$ 008.690

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

LAKE CITY, COLUMBIA COUNTY
CHAMBER OF COMMERCE, INC
875 SW SR 47
LAKE CITY, FL 32025



9590 9402 8047 2349 1484 00

2. Article Number (Transfer from service label)

7022 3330 0001 1921 3223

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent Addressee
- X
- B. Received by (Printed Name)
- C. Date of Delivery
- D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail (over \$500)
- Insured Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

PRINTED AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CANCER CENTERS OF NORTH FLORIDA
LLC
PO BOX 80610
INDIANAPOLIS, IN 46280



9590 9402 8047 2349 1479 60

2. Article Number (Transfer from service label)

7022 3330 0001 1921 3339

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent Addressee
- X
- B. Received by (Printed Name)
- C. Date of Delivery
- D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail (over \$500)
- Insured Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

CHW
11801 Research Dr
Alachua, FL 32615

CERTIFIED MAIL®



7022 3330 0001 1921 3322

CIVITAN REGIONAL BLOOD CENTER INC
D/B/A LIFESOUTH COMMUNITY BLOOD
CENTERS, INC
4039 NEWBERRY RD
GAINESVILLE, FL 32607

FIRST-CLASS



US POSTAGE and **PITNEY BOWES**
ZIP 32615
02 7H \$ **008.69⁰**
0001252164 APR 23 2024

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CIVITAN REGIONAL BLOOD CENTER INC
 D/B/A LIFESOUTH COMMUNITY BLOOD
 CENTERS, INC
 4039 NEWBERRY RD
 GAINESVILLE, FL 32607



9590 9402 8047 2349 1479 77

2. Article Number (Transfer from service label)

7022 3330 0001 1921 3322

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?
 If YES, enter delivery address below:

Yes
 No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (Over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

File Attachments for Item:

iv. *****POSTPONED***SPR23-10**, Petition submitted by Carol Chadwick (agent) for Affiliated Property Management (owner), for a Site Plan Review for Aspire Dental Addition, in the Commercial Intensive Zoning District, and located on Parcel 07604-102, which is regulated by the Land Development Regulations section 4.13.

Project Summary

Project Name: Aspire Dental Addition

Project Number: SPR23-10

Parcel Number: 07604-102

Project Notes

- Project type: Site Plan Review
- Future land use is: Commercial
- Zoning designation is: Commercial Intensive
- Proposed use of the property: 699 square feet addition
- Land is conducive for use: A dental office is a conducive use, per the LDR section 4.13.2 and 4.12.2.5. However, per section 4.12.11.5, a dental office is required to have one (1) parking space for every 150 square feet of floor area. With the addition, the building would have 3,977 square feet of floor area. This would require 27 parking spaces. The site has eight paved parking spots and an undefined number of parking spots in a gravel area.
- See staff review for notes from directors and city staff for their comments.

Project Summary

Project SPR23-10 is for a site plan review and has been reviewed by city staff. Application is sufficient for review. After review of the petition the city staff has determined that the petition is not consistent with the land development regulations due to the fact of not having the required amount of parking. At this time the City has no other concerns.



DEPARTMENT OF GROWTH MANAGEMENT
205 North Marion Avenue
Lake City, Florida 32055
Telephone: (386) 719-5750
growthmanagement@lcfla.com

REVIEW REPORT TO PLANNING AND ZONING, BOARD OF
ADJUSTMENT AND HISTORICAL COMMITTEES' BY STAFF
FOR SITE PLAN REVIEW, SPECIAL EXCEPTIONS, VARIANCES, COMPREHENSIVE
PLAN AMENDMENTS/ ZONING AND CERTIFICATE OF APPROPRIATENESS

Date: 04/17/2023

Request Type: Site Plan Review (SPR) Special Exception (SE) Variances (V)

Comprehensive Plan Amendment/Zoning (CPA/Z) Certificate of Appropriateness (COA)

Project Number: SPR23-10

Project Name: Aspire Dental Addition

Project Address: 1788 SW Barnett Way, Lake City, FL

Project Parcel Number: 05-4S-17-07604-102

Owner Name: Affiliated Property Management

Owner Address: 14506 NW 11th Place, Newberry, FL 32669

Owner Contact Information: Telephone Number: 386-752-2836 Email: aspiredentalc@gmail.com

Owner Agent Name: Carol Chadwick

Owner Agent Address: 1208 SW Fairfax Glen, Lake City, FL 32025

Owner Agent Contact Information: Telephone: 307-680-1772 Email: ccpewyo@gmail.com

The City of Lake City staff has reviewed the application and documents provided for the above request and have determined the following.

Growth Management – Building Department, Planning and Zoning, Code Enforcement, Permitting

Building Department: Reviewed by: _____ **Date:** _____

Comments: _____

Planning and Zoning: Reviewed by: MS _____ **Date:** 4/24/23

Comments: Per section 4.12.11.5 of the LDR, a dental office is required to have one parking space for every 150 square feet of floor space. The site is required to have 27 space based on proposed site plan.

Business License: Reviewed by: Marshall Sova _____ **Date:** _____
Marshall Sova (Apr 18, 2023 12:02 EDT)

Comments: _____

Code Enforcement: Reviewed by: Marshall Sova _____ **Date:** _____
Marshall Sova (Apr 18, 2023 12:02 EDT)

Comments: _____

Permitting: Reviewed by: ASJ _____ **Date:** _____

Comments: _____

Utilities – Water, Sewer, Gas, Water Distribution/Collections, Customer Service

Water Department: Reviewed by: Michael Osborn Jr. Michael Osborn Jr. (Apr 21, 2023 12:55 EDT) **Date:** _____

Comments: _____

Sewer Department: Reviewed by: Cody Pridgeon Cody Pridgeon (Apr 18, 2023 13:03 EDT) **Date:** _____

Comments: See attached email from Cody Pridgeon

Gas Department: Reviewed by: Steve Brown Steve Brown (Apr 24, 2023 08:15 EDT) **Date:** _____

Comments: _____

Water Distribution/Collection: Reviewed by: Brian Scott Brian Scott (Apr 24, 2023 07:42 EDT) **Date:** _____

Comments: _____

Customer Service: Reviewed by: _____ **Date:** _____

Comments: _____

Public Safety – Public Works, Fire Department, Police Department

Public Works: Reviewed by: *Steve Brown* Steve Brown (Apr 24, 2023 08:15 EDT) **Date:** _____

Comments: _____

Fire Department: Reviewed by: *Dwight Boozer* **Date:** _____

Comments: _____

Police Department: Reviewed by: _____ **Date:** _____

Comments: _____

Please provide separate pages for comments that will not fit in provided spaces and please label the pages for your department and for the project.

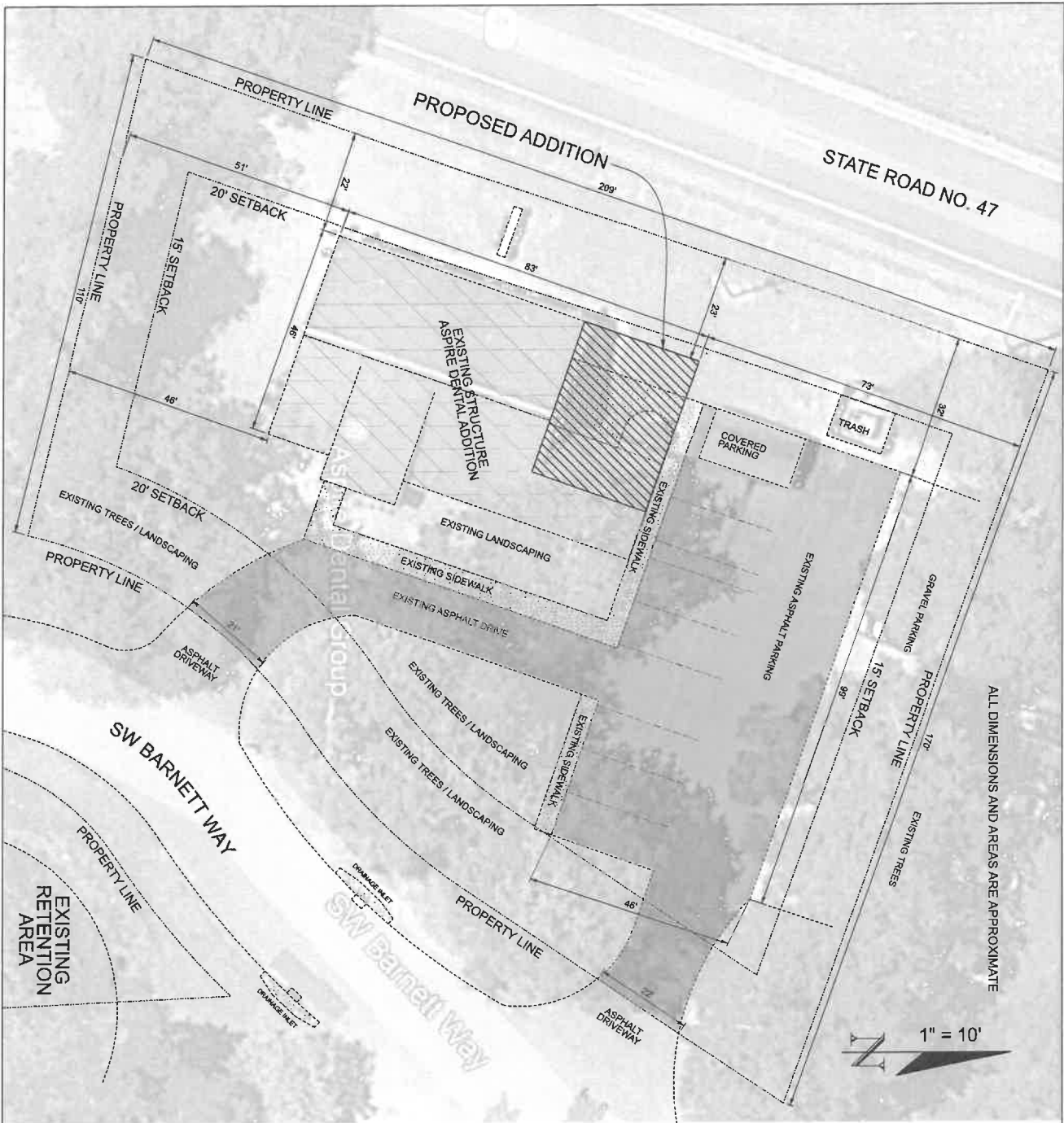
Angelo, Robert

From: Pridgeon, Cody
Sent: Tuesday, April 18, 2023 1:08 PM
To: Angelo, Robert
Cc: Pelham, Shasta; Johnson, Demetrius
Subject: Aspire Dental

Robert the adobe sign thin that was sent to me earlier wouldn't allow me to put in comments so I'm sending you this email. Any dental offices need to comply with City Ordinance No. 2020-2149. This requires them to have a dental amalgam separator on their waste stream prior to entering the City's collection system.

Cody Pridgeon
City of Lake City Wastewater Director
Office: (386)758-5455
Cell: (352)210-3086





VICINITY MAP / SITE PLAN

LEGAL DESCRIPTION: PLACE AS PER PLAT THEREOF LOT 2 OF SOUTH HAVEN PARK, PAGE 18 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

- EXISTING / PROPOSED ZONING - MEDICAL OFFICE
- TOTAL SITE AREA = .689 ACRES
- EXISTING / PROPOSED ASPHALT PARKING = 6354 SF
- EXISTING / PROPOSED CONCRETE SIDEWALK = 738 SF
- EXISTING STRUCTURE = 3278 SF
- PROPOSED ADDITION = 899 SF

SHEET
1
OF
1

ASPIRE DENTAL ADDITION
1788 SW BARNETT WAY
COLUMBIA COUNTY, FL 32025

PLANS PREPARED BY:
CHRISTOPHER Q. DICKS, P.E. 64766
4037 SE CR 252, LAKE CITY, FL 32025



* P&Z/HPA

with ArcGIS Web AppBuilder

07604-102



Show search results for 076...



Gravel Parking

Proposed Addition

-82.641 30.165 Degrees

40ft

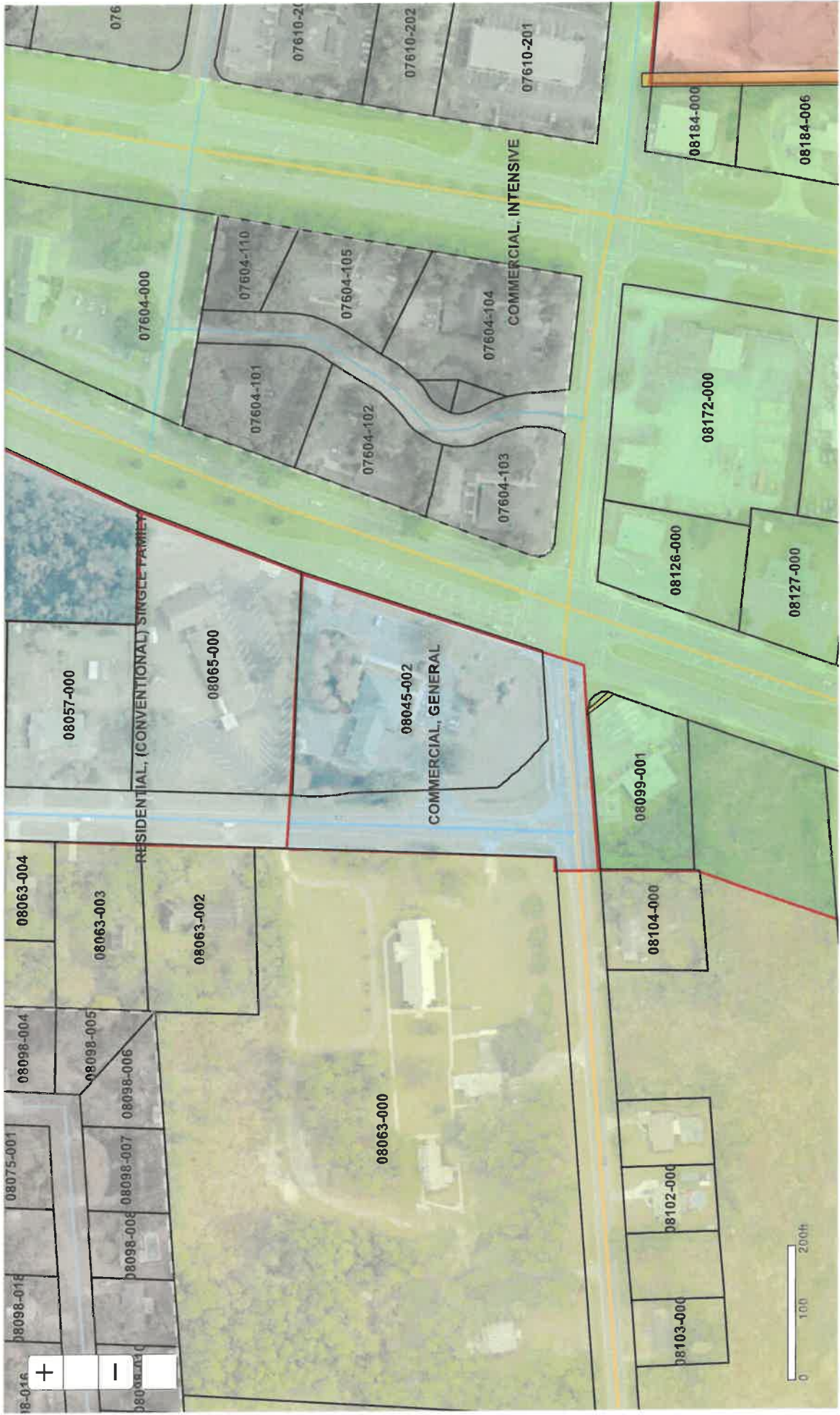
325

Updates are being made weekly. If you have any issues please email gis@lcfla.com

Home ▾ *P&Z/HPA

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Updates are being made weekly. If you have any issues please email gis@lcfla.com

SOUTH BANK PLACE

IN SECTIONS 5, 6 & 8, TOWNSHIP 4 SOUTH, RANGE 17 EAST
COLUMBIA COUNTY, FLORIDA
CITY OF LAKE CITY, FLORIDA



DESCRIPTION
BEGIN at the point of intersection of the Westerly Right-of-Way of U.S. Highway No. 41 and the South line of Section 5, Township 4 South, Range 17 East, Columbia County, Florida and run S 09°53'30"W, along said Westerly Right-of-Way line of U.S. Highway No. 41, a distance of 125.00 feet to the Point of Beginning, then N 89°21'00"W, along said Northern Right-of-Way line 429.12 feet to its intersection with the Eastern Right-of-Way line of State Road No. 47; thence N 19°25'35"E, along said Eastern Right-of-Way line 77.94 feet to the Point of Beginning; thence S 03°12'05"W, along a chord bearing of N 21°02'41"E, and a chord distance of 317.31 feet; thence Northern along the arc of said curve, being also said Eastern Right-of-Way line of State Road No. 47, a distance of 317.35 feet; thence S 87°22'35"E, along said Eastern Right-of-Way line of State Road No. 47, a distance of 518.43 feet to the POINT OF BEGINNING. Solid lands lying partly in the Southwest 1/4 of the Southwest 1/4 of Section 5, partly in the Northwest 1/4 of Section 8, Township 4 South, Range 17 East, Columbia County, Florida. Containing 4.88 acres, more or less.

- LEGEND / NOTES**
- 1) [Symbol] = Permanent Reference Monument set, cap stamped PLS 3628, with No. and date.
 - 2) [Symbol] = Permanent Control Point set, cap stamped PLS 3628, with no. and date.
 - 3) [Symbol] = 4" x 4" Concrete Monument set, cap stamped PLS 3628.
 - 4) [Symbol] = Concrete Monument found in place at time of Survey.
 - 5) Boundaries based on prior Survey of tract by Donald F. Lee and Associates, Inc.
 - 6) Bearings projected from above referenced Donald F. Lee and Associates Survey.
 - 7) Field data closure precision complies with Minimum Technical Standards.
 - 8) This development does not lie in a Flood Zone "A" area according to the F.I.P.7-1-A. Flood Hazard maps for this vicinity.

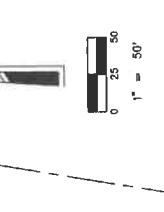
NOTICE: There may be additional restrictions that are not recorded on this Plat that may be found in the Public Records of this County.

NOTICE: All Utility Easements shown on this Plat shall constitute Easements for the construction, installation, maintenance and operation of electricity, telephone, CATV and public utilities which may encroach the lands encompassed by this Plat.

SURVEYOR'S CERTIFICATE
I HEREBY CERTIFY this to be a true and correct representation of the land surveyed and shown hereon, that the Survey was made under my responsible supervision, direction and control, that Permanent Control Points have been set as shown and that the Survey data complies with the Lake City Subdivision Ordinance and Chapter 177 of the Florida Statutes.

CITY ATTORNEY'S CERTIFICATE
I HEREBY CERTIFY that I have examined the foregoing Plat and that it complies in form with the Lake City Subdivision Ordinance and Chapter 177 of the Florida Statutes.

ACCEPTANCE FOR MAINTENANCE
I HEREBY CERTIFY that the improvements have been constructed in an acceptable manner and in accordance with City specifications or that a performance bond or instrument in the amount of \$_____ has been posted to assure completion of all required improvements and maintenance in case of default.



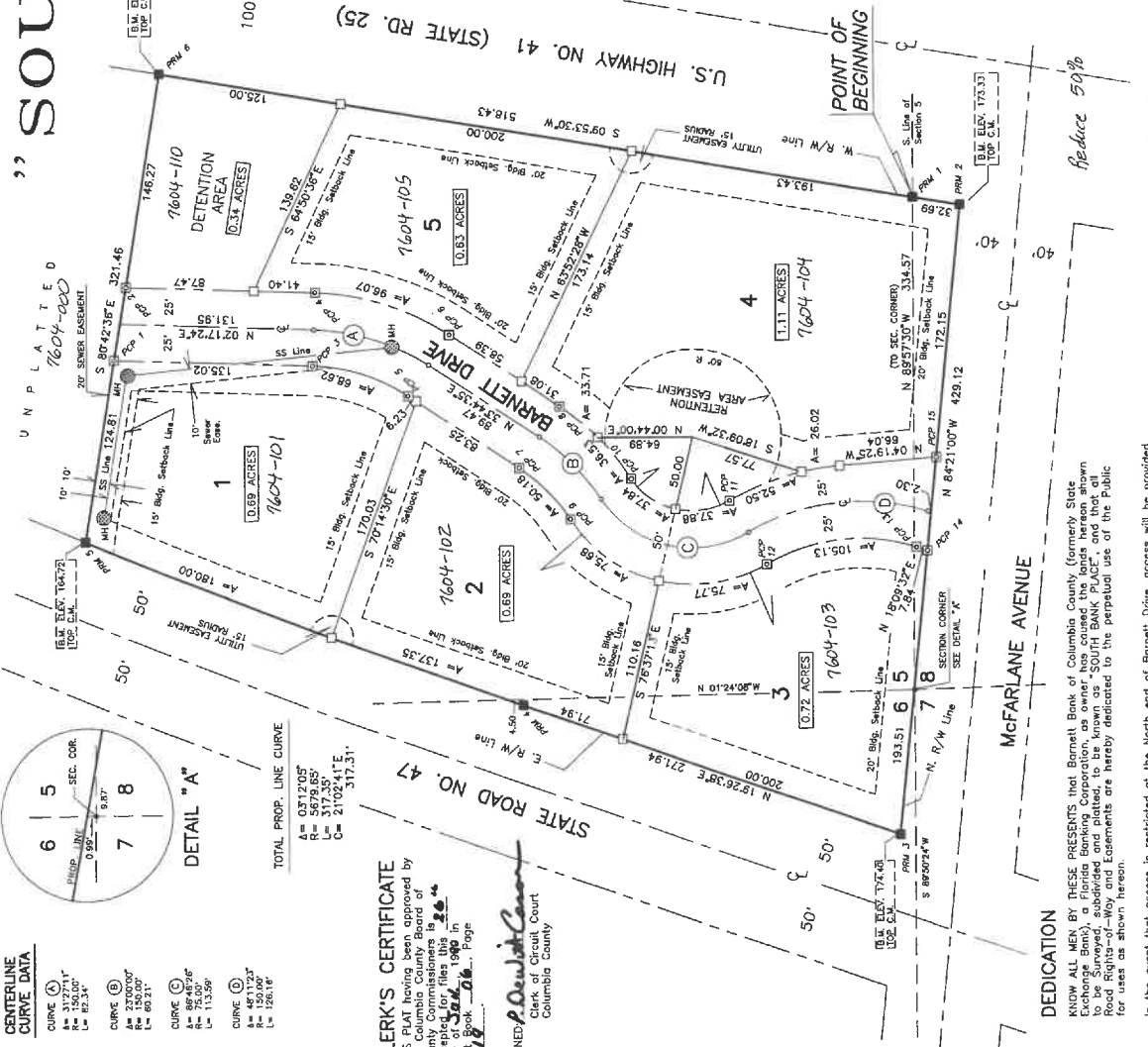
APPROVAL
ZONING BOARD, CITY OF LAKE CITY.
SIGNED: [Signature] Chairman
DATE: 2/25/1989

APPROVAL
CITY COUNCIL, CITY OF LAKE CITY.
SIGNED: [Signature] T. Gerald Whit, Mayor
DATE: 2/25/1989

ACKNOWLEDGEMENT
STATE OF FLORIDA, COUNTY OF COLUMBIA
The Dedication hereon was acknowledged before me this 26th day of February 1989 by C. Barnett and Donald F. Lee, Clerk of the Board of County Commissioners, of Barnett Bank of Columbia County, with their seeds affixed hereto.

DEDICATION
KNOW ALL MEN BY THESE PRESENTS that Barnett Bank of Columbia County (formerly State Exchange Bank), a Florida Banking Corporation, as owner, has dedicated to the City of Lake City, Florida, the South Bank Place plat and that all Road Rights-of-Way and Easements are hereby dedicated to the perpetual use of the Public for use as shown hereon.

In the event that access is restricted to the North end of Barnett Drive, access will be provided by one of the following methods:
1.) A 50' x 100' easement to the North end of Barnett Drive for a cul-de-sac, or
2.) Construct a cul-de-sac within the confines of the South Bank Place commercial subdivision.



CLERK'S CERTIFICATE
THIS PLAT having been approved by the Columbia County Board of Commissioners, on this 26th day of February 1989 in the presence of _____, Clerk of said Board, and _____, Page of said Book _____, Page _____.

SIGNED: [Signature] Clerk of Circuit Court
Columbia County

SIGNED: [Signature] Donald F. Lee, P.L.S.
Florida Reg. Cert. No. 3628
DATE: 2/25/1989

SIGNED: [Signature] Herbert Darby
City Attorney

SIGNED: [Signature] W. Terry Orsatt
Director of Public Works

PREPARED BY:
Donald F. Lee and Associates, Inc.
SURVEYORS

WITNESS
J. C. Boff, President
[Signature]

WITNESS
[Signature]

WITNESS
[Signature]

WITNESS
[Signature]



GROWTH MANAGEMENT
 205 North Marion Ave.
 Lake City, FL 32055
 Telephone: (386)719-5750
 E-Mail:
 growthmanagement@lcfla.com

FOR PLANNING USE ONLY
 Application # SPR23-10
 Application Fee **\$200.00**
 Receipt No. 2023-00042843
 Filing Date 3/31/23
 Completeness Date _____

Site Plan Application

A. PROJECT INFORMATION

1. Project Name: Aspire Dental Addition
2. Address of Subject Property: 1788 SW Barnett Way, Lake City
3. Parcel ID Number(s): 05-65-17-07604-102
4. Future Land Use Map Designation: Commercial
5. Zoning Designation: CI
6. Acreage: 0.489
7. Existing Use of Property: Dental office
8. Proposed use of Property: Dental office
9. Type of Development (Check All That Apply):
 - Increase of floor area to an existing structure: Total increase of square footage 699
 - New construction: Total square footage _____
 - Relocation of an existing structure: Total square footage _____

B. APPLICANT INFORMATION

1. Applicant Status Owner (title holder) Agent
2. Name of Applicant(s): Carol Chadwick, PE Title: Civil Engineer
 Company name (if applicable): _____
 Mailing Address: 1208 SW Fairfax Glen
 City: Lake City State: FL Zip: 32025
 Telephone: (386) 680-1772 Fax: (_____) Email: ccpewyoc@gmail.com

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

3. If the applicant is agent for the property owner*.
 - Property Owner Name (title holder): Affiliated Property Management
 - Mailing Address: 14500 NW 11th Place
 - City: Newberry State: FL Zip: 32669
 - Telephone: (386) 752-8836 Fax: (_____) Email: aspire.dental@ic@gmail.com

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

***Must provide an executed Property Owner Affidavit Form authorizing the agent to act on behalf of the property owner.**

C. ADDITIONAL INFORMATION

- 1. Is there any additional contract for the sale of, or options to purchase, the subject property?
If yes, list the names of all parties involved: _____
If yes, is the contract/option contingent or absolute: Contingent Absolute
- 2. Has a previous application been made on all or part of the subject property? Yes No
Future Land Use Map Amendment: Yes _____ No _____
Future Land Use Map Amendment Application No. _____
Site Specific Amendment to the Official Zoning Atlas (Rezoning): Yes _____ No _____
Site Specific Amendment to the Official Zoning Atlas (Rezoning) Application No. _____
Variance: Yes _____ No _____
Variance Application No. _____
Special Exception: Yes _____ No _____
Special Exception Application No. _____

D. ATTACHMENT/SUBMITTAL REQUIREMENTS

- ✓ 1. Vicinity Map – Indicating general location of the site, abutting streets, existing utilities, complete legal description of the property in question, and adjacent land use.
- ✓ 2. Site Plan – Including, but not limited to the following:
 - a. Name, location, owner, and designer of the proposed development.
 - b. Present zoning for subject site.
 - c. Location of the site in relation to surrounding properties, including the means of ingress and egress to such properties and any screening or buffers on such properties.
 - d. Date, north arrow, and graphic scale not less than one inch equal to 50 feet.
 - e. Area and dimensions of site (Survey).
 - f. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.
 - g. Access to utilities and points of utility hook-up.
 - h. Location and dimensions of all existing and proposed parking areas and loading areas.
 - i. Location, size, and design of proposed landscaped areas (including existing trees and required landscaped buffer areas).
 - j. Location and size of any lakes, ponds, canals, or other waters and waterways.
 - k. Structures and major features fully dimensioned including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and percent of property covered by structures.
 - l. Location of trash receptacles.
 - m. For multiple-family, hotel, motel, and mobile home park site plans:
 - i. Tabulation of gross acreage.
 - ii. Tabulation of density.
 - iii. Number of dwelling units proposed.
 - iv. Location and percent of total open space and recreation areas.
 - v. Percent of lot covered by buildings.

- vi. Floor area of dwelling units.
 - vii. Number of proposed parking spaces.
 - viii. Street layout.
 - ix. Layout of mobile home stands (for mobile home parks only).
- ✓3. Stormwater Management Plan—Including the following:
 - a. Existing contours at one foot intervals based on U.S. Coast and Geodetic Datum.
 - b. Proposed finished elevation of each building site and first floor level.
 - c. Existing and proposed stormwater management facilities with size and grades.
 - d. Proposed orderly disposal of surface water runoff.
 - e. Centerline elevations along adjacent streets.
 - f. Water management district surface water management permit.
 - ✓4. Fire Department Access and Water Supply Plan: The Fire Department Access and Water Supply Plan must demonstrate compliance with Chapter 18 of the Florida Fire Prevention Code, be located on a separate signed and sealed plan sheet, and must be prepared by a professional fire engineer licensed in the State of Florida. The Fire Department Access and Water Supply Plan must contain fire flow calculations in accordance with the Guide for Determination of Required Fire Flow, latest edition, as published by the Insurance Service Office (“ISO”) and/or Chapter 18, Section 18.4 of the Florida Fire Prevention Code, whichever is greater.
 - ✓5. Concurrency Impact Analysis: Concurrency Impact Analysis of impacts to public facilities. For commercial and industrial developments, an analysis of the impacts to Transportation, Potable Water, Sanitary Sewer, and Solid Waste impacts are required.
 - ✓6. Comprehensive Plan Consistency Analysis: An analysis of the application’s consistency with the Comprehensive Plan (analysis must identify specific Goals, Objectives, and Policies of the Comprehensive Plan and detail how the application complies with said Goals, Objectives, and Policies).
 - ✓7. Legal Description with Tax Parcel Number (In Word Format).
 - ✓8. Proof of Ownership (i.e. deed).
 - ✓9. Agent Authorization Form (signed and notarized).
 - ✓10. Proof of Payment of Taxes (can be obtained online via the Columbia County Tax Collector’s Office).
 11. Fee. The application fee for a Site and Development Plan Application is \$200.00. No application shall be accepted or processed until the required application fee has been paid.

NOTICE TO APPLICANT

All eleven (11) attachments are required for a complete application. Once an application is submitted and paid for, a completeness review will be done to ensure all the requirements for a complete application have been met. If there are any deficiencies, the applicant will be notified in writing. If an application is deemed to be incomplete, it may cause a delay in the scheduling of the application before the Planning & Zoning Board.

A total of ten (10) copies of proposed site plan application and all support materials must be submitted along with a PDF copy on a CD. See City of Lake City submittal guidelines for additional submittal requirements.

THE APPLICANT ACKNOWLEDGES THAT THE APPLICANT OR AGENT MUST BE PRESENT AT THE PUBLIC HEARING BEFORE THE PLANNING AND ZONING BOARD, AS ADOPTED IN THE BOARD RULES AND PROCEDURES. OTHERWISE THE REQUEST MAY BE CONTINUED TO A FUTURE HEARING DATE.

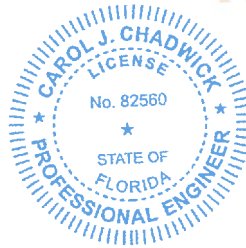
I hereby certify that all of the above statements and statements contained in any documents or plans submitted herewith are true and accurate to the best of my knowledge and belief.

Applicant/Agent Name (Type or Print)

Applicant/Agent Signature

Applicant/Agent Name (Type or Print)

Applicant/Agent Signature



Digitally signed by
Carol Chadwick
DN: c=US,
o=Florida,
dnQualifier=A014
10D0000017EB60
924CE0005954C,
cn=Carol
Chadwick
Date: 2023.03.31
12:30:53 -04'00' Date

STATE OF FLORIDA
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____, 20____, by (name of person acknowledging).

(NOTARY SEAL or STAMP)

Signature of Notary

Printed Name of Notary

Personally Known _____ OR Produced Identification _____
Type of Identification Produced

City of Lake City – Growth Management Department
205 North Marion Ave, Lake City, FL 32055 ♦ (386) 719-5750



RIS DR

SW MCFARLANE Ave

SW STATE ROAD 47

SW BARNETT Way

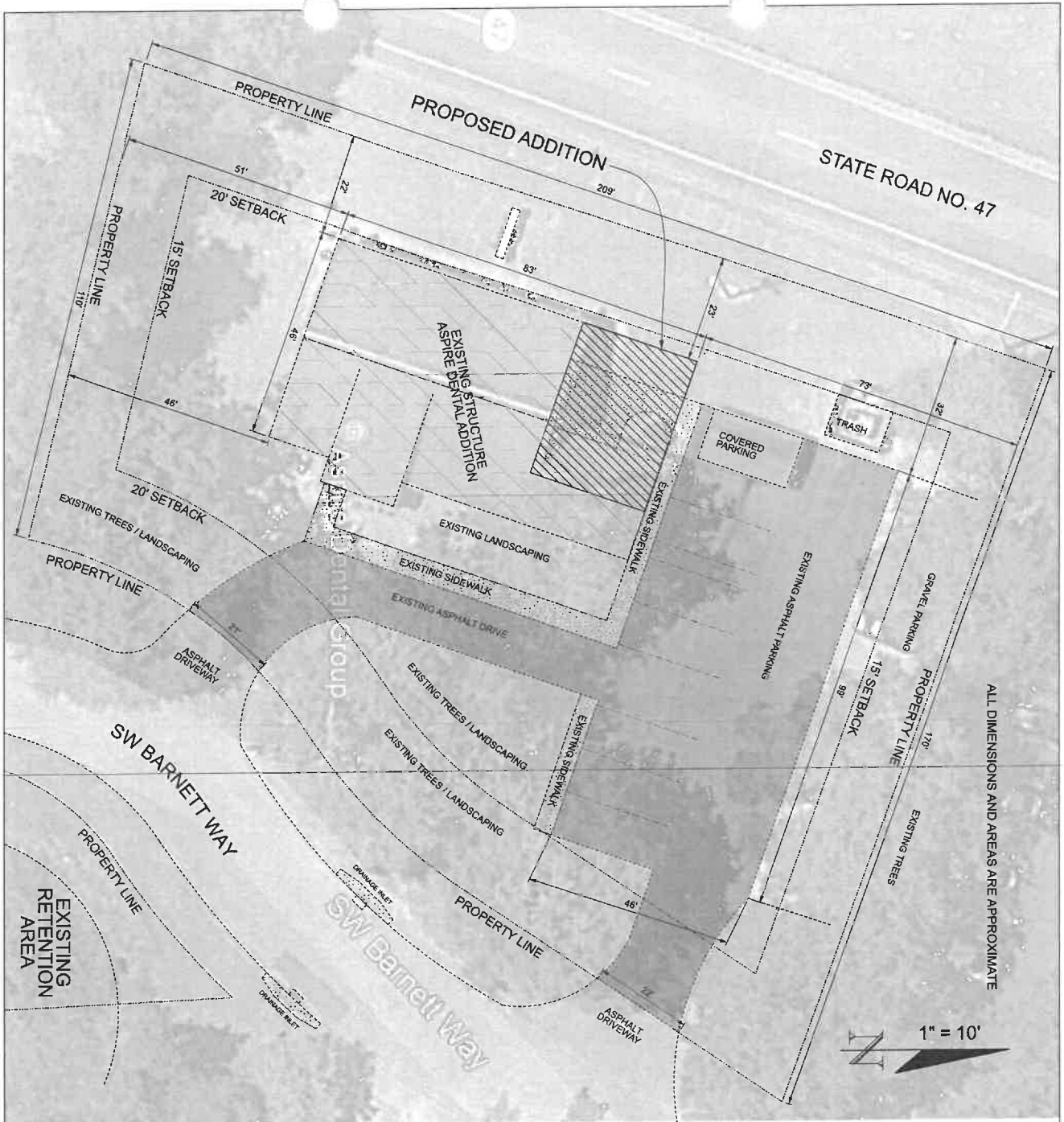
SW MAIN Blvd

SW BENTLEY PI

SW NEWLAND Way

EPIPHANY Ct

SW MALONE St



ALL DIMENSIONS AND AREAS ARE APPROXIMATE



VICINITY MAP / SITE PLAN

LEGAL DESCRIPTION
LOT 2 OF SOUTHBANK PLACE AS PER PLAT THEREOF
RECORDED IN PLAT BOOK 6 PAGE 18 OF THE PUBLIC
RECORDS OF COLUMBIA COUNTY, FLORIDA.

- EXISTING / PROPOSED ZONING - MEDICAL OFFICE
- TOTAL SITE AREA = 689 ACRES
- EXISTING / PROPOSED ASPHALT PARKING = 6354 SF
- EXISTING / PROPOSED CONCRETE SIDEWALK = 738 SF
- EXISTING STRUCTURE = 3278 SF
- PROPOSED ADDITION = 699 SF

SHEET
1
OF
1

ASPIRE DENTAL ADDITION
1788 SW BARNETT WAY
COLUMBIA COUNTY, FL 32025

PLANS PREPARED BY:
CHRISTOPHER Q. DICKS, P.E. 64766
4037 SE CR 252, LAKE CITY, FL 32025

CAROL CHADWICK, P.E.

Civil Engineer

1208 S.W. Fairfax Glen

Lake City, FL 32025

307.680.1772

ccpeuyo@gmail.com

www.carolchadwickpe.com

March 31, 2023

re: Aspire Dental Addition Drainage Memo

Per ERP-4-88-00236, each lot is permitted for 40% impervious area. Please refer to site plan for impervious area summary.

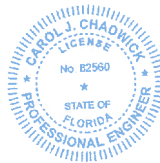
Lot size is 0.689 acres or 30013 s.f. Total impervious surface with this addition will be 11069 s.f. Total allowed impervious surfaces is 12005 s.f.

The proposed design and construction of this site shall not cause adverse impacts to:

- Existing surface water storage
- Conveyance capabilities
- Water quantity
- Flooding conditions
- Minimum flows and levels established by the State of Florida
- Water quality

Please contact me at 307.680.1772 if you have any questions.

Respectfully,



Digitally signed by Carol Chadwick
DN: c=US, o=Florida,
dnQualifier=A01410D000017EB6
D924CE0005954C, cn=Carol
Chadwick
Date: 2023.03.31 12:30:30 -04'00'

Carol Chadwick, P.E.

CC Job #FL23105

□

CAROL CHADWICK, P.E.

Civil Engineer

1208 S.W. Fairfax Glen

Lake City, FL 32025

307.680.1772

ccpewyo@gmail.com

www.carolchadwickpe.com

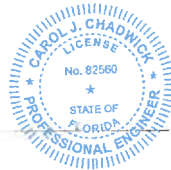
March 31, 2023

re: Aspire Dental Addition Fire Flow Report

The additional of 699 s.f. of building area will not require additional fire flow from the existing hydrant. Hydrant is located on SW Barnett Way on the northeast corner of the site.

Please contact me at 307.680.1772 if you have any questions.

Respectfully,



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dnQualifier=A01410D0000017EB6
D924CE0005954C, cn=Carol
Chadwick
Date: 2023.03.31 12:30:19 -04'00'

Carol Chadwick, P.E.

CAROL CHADWICK, P.E.

Civil Engineer

1208 S.W. Fairfax Glen

Lake City, FL 32025

307.680.1772

ccpewyo@gmail.com

www.carolchadwickpe.com

March 31, 2023

re: Aspire Dental Addition Concurrency Impact Analysis

The site is an existing dental office. The business currently utilizes public sewer and water systems.

Criteria for analyses:

- Trip generation was calculated per the ITE Trip Generation Manual, 9th edition, ITE code 720
- Potable Water Analysis per Chapter 64E-6.008 Florida Administrative Code, Table 1
- Sanitary Sewer Analysis Chapter 64E-6.008 Florida Administrative Code, Table 1
- Environmental Engineering: Tampa Typical Solid Waste Generation Rates

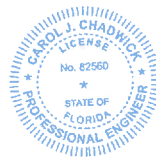
Summary of analyses:

- Trip generation: 43.82 ADT & 5.93 Peak PM trips
- Potable Water: 695 gallons per day
- ~~Potable Water: 695 gallons per day~~
- Solid Waste: 2.98 c.y. per week

See attached Concurrency Worksheet.

Please contact me at 307.680.1772 if you have any questions.

Respectfully,



Digitally signed by Carol Chadwick
DN: c=US, o=Florida,
dnQualifier=A01410D0000017EB6D
924CE0005954C, cn=Carol Chadwick
Date: 2023.03.31 12:30:08 -04'00'

Carol Chadwick, P.E.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CC Job #FL23105



**REVISED CONCURRENCY
WORKSHEET**

Trip Generation Analysis

ITE Code	ITE Use	ADT Multiplier	PM Peak Multiplier	KSF	Total ADT	Total PM Peak
720	Medical Dental Office	11.01	1.49	3.98	43.82	5.93

*Per employee

Potable Water Analysis

Ch. 64E-6.008, F.A.C. Use	Ch. 64E-6.008, F.A.C. Gallons Per Day (GPD)	Ch. 64E-6.008, F.A.C. Multiplier*	Total (Gallons Per Day)
Medical Dental Office	250 + 15	250 + 13	695.00

* Multiplier is based upon Ch. 64E.6008, Florida Administrative Code and can vary from square footage, number of employees, number of seats, or etc. See Ch. 64E-6.008, F.A.C. to determine multiplier. (2 PRACTITIONERS & 13 EMPLOYEES)

Sanitary Sewer Analysis

Ch. 64E-6.008, F.A.C. Use	Ch. 64E-6.008, F.A.C. Gallons Per Day (GPD)	Ch. 64E-6.008, F.A.C. Multiplier*	Total (Gallons Per Day)
Medical Dental Office	250 + 15	250 + 13	695.00

* Multiplier is based upon Ch. 64E.6008, Florida Administrative Code and can vary from square footage, number of employees, number of seats, or etc. See Ch. 64E-6.008, F.A.C. to determine multiplier. (2 PRACTITIONERS & 13 EMPLOYEES)

Solid Waste Analysis

Use	Tons Per 100 s.f.	S.F.	Total (c.y. per week)
Medical Office	1.50	3977.00	2.98

CAROL CHADWICK, P.E.

Civil Engineer

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Lake City, FL 32025

307.680.1772

ccpewyo@gmail.com

www.carolchadwickpe.com

March 31, 2023

re: Aspire Dental Addition Comprehensive Plan Consistency Analysis

The Aspire Dental Addition proposed site plan consistent with Lake City's Comprehensive Plan.

Future Land Use Element

GOAL 1 - IN RECOGNITION OF THE IMPORTANCE OF CONSERVING THE NATURAL RESOURCES AND ENHANCING THE QUALITY OF LIFE, THE CITY SHALL DIRECT DEVELOPMENT TO THOSE AREAS WHICH HAVE IN PLACE, OR HAVE AGREEMENTS TO PROVIDE, THE LAND AND WATER RESOURCES, FISCAL ABILITIES AND SERVICE CAPACITY TO ACCOMMODATE GROWTH IN AN ENVIRONMENTALLY ACCEPTABLE MANNER.

- Objective 1.1 The City shall continue to direct future population growth and associated urban development to urban development areas as established within this comprehensive plan.

Consistency: The subject property is an addition to an existing dental office.

- Policy 1.1.1 The City shall limit the location of higher density residential and high intensity commercial and industrial uses to areas adjacent to arterial or collector roads where public facilities are available to support such higher density or intensity. In addition, the City shall enable private subregional centralized potable water and sanitary sewer systems to connect to public regional facilities, in accordance with the objective and policies for the urban and rural areas within this future land use element of the comprehensive plan.

Consistency: The subject property is an addition to an existing dental office.

- Policy 1.1.2 The City's future land use plan map shall allocate amounts and mixes of land uses for residential, commercial, industrial, public and recreation to meet the needs of the existing and projected future populations and to locate urban land uses in a manner where public facilities may be provided to serve such urban land uses. Urban land uses shall be herein defined as residential, commercial and industrial land use categories.

Consistency: The commercial site is zoned C1.

- Policy 1.1.3 The City's future land use plan map shall base the designation of residential, commercial and industrial lands depicted on the future land use plan map upon acreage which can be reasonable expected to develop by the year 2023.

Consistency: The subject property is an addition to an existing dental office.

- Policy 1.1.4 The City shall continue to maintain standards for the coordination and siting of proposed urban development near agricultural or forested areas, or environmentally sensitive

□

areas (including but not limited to wetlands and floodplain areas) to avoid adverse impact upon existing land uses.

Consistency: The proposed use of the subject property is consistent with commercial properties and will not have any adverse environmental impacts on the existing land uses.

- Policy I.1.5 The City shall continue to regulate and govern future urban development within designated urban development areas in conformance with the land topography and soil conditions, and within an area which is or will be served by public facilities and services.

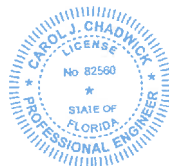
Consistency: No impacts to adjacent land topography or soil conditions will result due to a zooming or land use change of the subject property.

- Policy I.1.6 The City's land development regulations shall be based on and be consistent with the following land use classifications and corresponding standards for densities and intensities within the designated urban development areas of the City. For the purpose of this policy and comprehensive plan, the phrase "other similar uses compatible with" shall mean land uses that can co-exist in relative proximity to other uses in a stable fashion over time such that no other uses within the same land use classification are negatively impacted directly or indirectly by the use.

Consistency: The proposed commercial development is compatible with other similar uses in the area and can co-exist without negative impacts to other uses in relative proximity to the development over time.

Please contact me at 307.680.1772 if you have any questions.

Respectfully,



Digitally signed by Carol Chadwick
DN: c=US, o=Florida,
dnQualifier=A01410D0000017EB6
D924CE0005954C, cn=Carol
Chadwick
Date: 2023.03.31 12:29:45 -04'00'

Carol Chadwick, P.E.

PARCEL: 05-4S-17-07604-102

DESCRIPTION:

LOT 2 OF SOUTHBANK PLACE AS PER PLAT THEREOF RECORDED IN PLAT BOOK 6 PAGE 19 OF
THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA

Columbia County Property Appraiser

Jeff Hampton

2023 Working Values

updated: 3/30/2023

Parcel: << **05-4S-17-07604-102 (28480)** >>

Aerial Viewer Pictometry Google Maps

Owner & Property Info

Result: 1 of 0

Owner	AFFILIATED PROPERTY MANAGEMENT LLC 14506 NW 11TH PLACE NEWBERRY, FL 32669		
Site	1788 SW BARNETT WAY, LAKE CITY		
Description*	LOT 2 SOUTH BANK PLACE. 768-521, 859-1397, 880-2059, CD 884-2282, WD 1466-471.		
Area	0.689 AC	S/T/R	05-4S-17
Use Code**	PROFESS SVC/BLD (1900)	Tax District	1

*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

2022 Certified Values		2023 Working Values	
Mkt Land	\$67,626	Mkt Land	\$67,626
Ag Land	\$0	Ag Land	\$0
Building	\$195,579	Building	\$190,220
XFOB	\$8,551	XFOB	\$8,551
Just	\$271,756	Just	\$266,397
Class	\$0	Class	\$0
Appraised	\$271,756	Appraised	\$266,397
SOH Cap [?]	\$0	SOH Cap [?]	\$0
Assessed	\$271,756	Assessed	\$266,397
Exempt	\$0	Exempt	\$0
Total Taxable	county:\$271,756 city:\$271,756 other:\$0 school:\$271,756	Total Taxable	county:\$266,397 city:\$266,397 other:\$0 school:\$266,397



Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Qualification (Codes)	RCode
4/19/2022	\$100	1488/0471	WD	I	U	11
5/18/1999	\$68,000	0880/2059	WD	V	U	01
5/28/1998	\$68,000	0859/1397	WD	V	Q	
10/27/1992	\$48,000	0768/0521	WD	V	U	04

Building Characteristics

Bldg Sketch	Description*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	OFFICE MED (5200)	1999	3136	3318	\$190,220

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

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims
0164	CONC BIN	1999	\$285.00	38.00	0 x 0
0260	PAVEMENT-ASPHALT	1999	\$6,175.00	6861.00	0 x 0
0166	CONC,PAVMT	1999	\$1,691.00	1127.00	0 x 0
0169	FENCE/WOOD	2012	\$100.00	1.00	0 x 0
0060	CARPORT F	2012	\$300.00	1.00	0 x 0

Land Breakdown

Code	Desc	Units	Adjustments	Eff Rate	Land Value
1910	MEDIC OFF (MKT)	30,056.000 SF (0.689 AC)	1.0000/1.0000 1.0000/1	\$2 /SF	\$67,626

Search Result: 1 of 0



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Florida Limited Liability Company
 AFFILIATED PROPERTY MANAGEMENT, LLC

Filing Information

Document Number L16000074743
FEI/EIN Number 59-3529574
Date Filed 04/18/2016
Effective Date 08/19/1998
State FL
Status ACTIVE
Last Event CONVERSION
Event Date Filed 04/18/2016
Event Effective Date NONE

Principal Address

14506 N.W. 11TH PL.
 NEWBERRY, FL 32669

Mailing Address

14506 N.W. 11TH PL.
 NEWBERRY, FL 32669

Registered Agent Name & Address

HARVEY, FRANKIE J
 14506 N.W. 11TH PL.
 NEWBERRY, FL 32669

Name Changed: 04/28/2017

Authorized Person(s) Detail

Name & Address

Title manager

HARVEY, FRANKIE J
 14506 N.W. 11TH PL.
 NEWBERRY, FL 32669

Annual Reports

Report Year	Filed Date
2020	02/04/2020

2021 02/10/2021
2022 03/31/2022

Document Images

03/31/2022 – ANNUAL REPORT	View image in PDF format
02/10/2021 – ANNUAL REPORT	View image in PDF format
02/04/2020 – ANNUAL REPORT	View image in PDF format
05/10/2019 – ANNUAL REPORT	View image in PDF format
04/27/2018 – ANNUAL REPORT	View image in PDF format
04/28/2017 – ANNUAL REPORT	View image in PDF format
04/18/2016 – Florida Limited Liability	View image in PDF format



GROWTH MANAGEMENT DEPARTMENT
 205 North Marion Ave, Lake City, FL 32055
 Phone: 386-719-5750
 E-mail: growthmanagement@lcfla.com

AGENT AUTHORIZATION FORM

I, Robert Horvey (owner name), owner of property parcel
 number _____ (parcel number), do certify that

the below referenced person(s) listed on this form is/are contracted/hired by me, the owner, or, is an officer of the corporation; or, partner as defined in Florida Statutes Chapter 468, and the said person(s) is/are authorized to sign, speak and represent me as the owner in all matters relating to this parcel.

Printed Name of Person Authorized	Signature of Authorized Person
1. <u>Gary Johnson</u>	1. <u>[Signature]</u>
2. <u>Heleen Tarr</u>	2. <u>[Signature]</u>
3. <u>Carol Chadwick, PE</u>	3. <u>[Signature]</u>
4.	4.
5.	5.

I, the owner, realize that I am responsible for all agreements my duly authorized agent agrees with, and I am fully responsible for compliance with all Florida Statutes, City Codes, and Land Development Regulations pertaining to this parcel.

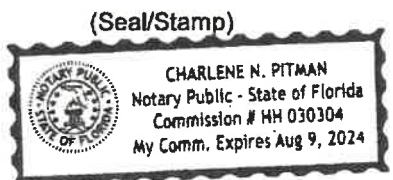
If at any time the person(s) you have authorized is/are no longer agents, employee(s), or officer(s), you must notify this department in writing of the changes and submit a new letter of authorization form, which will supersede all previous lists. Failure to do so may allow unauthorized persons to use your name and/or license number to obtain permits.

[Signature] _____ Date 3-14-2023

NOTARY INFORMATION:
 STATE OF: FLORIDA COUNTY OF: COLUMBIA

The above person, whose name is Robert J. Horvey, personally appeared before me and is known by me or has produced identification (type of I.D.) FLDL 610-770-54-447-0 on this 14 day of March, 2023.

[Signature]
 NOTARY'S SIGNATURE



Columbia County Tax Collector

generated on 3/31/2023 11:04:33 AM EDT

Tax Record

Last Update: 3/31/2023 11:02:59 AM EDT

Register for eBill

Ad Valorem Taxes and Non-Ad Valorem Assessments

The information contained herein does not constitute a title search and should not be relied on as such.

Account Number	Tax Type	Tax Year			
R07604-102	REAL ESTATE	2022			
Mailing Address		Property Address			
AFFILIATED PROPERTY MANAGEMENT LLC 14506 NW 11TH PLACE NEWBERRY FL 32669		1788 BARNETT LAKE CITY			
		GEO Number 054S17-07604-102			
Exempt Amount	Taxable Value				
See Below	See Below				
Exemption Detail	Millage Code	Escrow Code			
NO EXEMPTIONS	001				
Legal Description (click for full description) 05-4S-17 1900/1900.69 Acres LOT 2 SOUTH BANK PLACE. 768-521, 859-1397, 880-2059, CD 884-2282, WD 1466-471,					
Ad Valorem Taxes					
Taxing Authority	Rate	Assessed Value			
		Exemption Amount			
		Taxable Value			
		Taxes Levied			
CITY OF LAKE CITY	4.9000	271,756	0	\$271,756	\$1,331.60
BOARD OF COUNTY COMMISSIONERS	7.8150	271,756	0	\$271,756	\$2,123.77
COLUMBIA COUNTY SCHOOL BOARD					
DISCRETIONARY	0.7480	271,756	0	\$271,756	\$203.28
LOCAL	3.2990	271,756	0	\$271,756	\$896.52
CAPITAL OUTLAY	1.5000	271,756	0	\$271,756	\$407.63
SUWANNEE RIVER WATER MGT DIST	0.3368	271,756	0	\$271,756	\$91.53
LAKE SHORE HOSPITAL AUTHORITY	0.0001	271,756	0	\$271,756	\$0.03
Total Millage		18.5989	Total Taxes		\$5,054.36
Non-Ad Valorem Assessments					
Code	Levying Authority	Amount			
XLCP	CITY FIRE ASSESSMENT	\$519.27			
Total Assessments					\$519.27
Taxes & Assessments					\$5,573.63
If Paid By				Amount Due	
				\$0.00	

Date Paid	Transaction	Receipt	Item	Amount Paid
11/21/2022	PAYMENT	1501182.0001	2022	\$5,350.68

Prior Years Payment History

Prior Year Taxes Due
NO DELINQUENT TAXES

File Attachments for Item:

v. SPR24-06, Petition submitted by Christopher A Gmuer, P.E.. (agent) for ERA Investments (owner), for a Site Plan Review for Lake City Hotels Phase 2, in the Commercial Intensive Zoning District, and located on parcel 02582-002, which is regulated by the Land Development Regulations section 4.13.



DEPARTMENT OF GROWTH MANAGEMENT
205 North Marion Avenue
Lake City, Florida 32055
Telephone: (386) 719-5750
growthmanagement@lcfla.com

REVIEW REPORT TO PLANNING AND ZONING, BOARD OF
ADJUSTMENT AND HISTORICAL COMMITTEES' BY STAFF
FOR SITE PLAN REVIEW, SPECIAL EXCEPTIONS, VARIANCES, COMPREHENSIVE
PLAN AMENDMENTS/ ZONING AND CERTIFICATE OF APPROPRIATENESS

Date: 04/29/2024

Request Type: Site Plan Review (SPR) Special Exception (SE) Variances (V)

Comprehensive Plan Amendment/Zoning (CPA/Z) Certificate of Appropriateness (COA)

Project Number: SPR 24-06

Project Name: Lake City Hotels Phase 2

Project Address: TBA

Project Parcel Number: 02582-002

Owner Name: ERA Investments, LLC

Owner Address: 162 NW Birdie Pl, Lake City, FL 32055

Owner Contact Information: Telephone Number: 386-984-0732 Email: drpatel@primarycaremedic.com

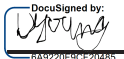
Owner Agent Name: Christopher A. Gmuer, P.E.

Owner Agent Address: 2603 NW 13th Street, Box 314, Gainesville, FL

Owner Agent Contact Information: Telephone: 352-281-4928 Email: chrisg@gmuereng.com

The City of Lake City staff has reviewed the application and documents provided for the above request and have determined the following.

Growth Management – Building Department, Planning and Zoning, Code Enforcement, Permitting

Building Department: Reviewed by:  **Date:** 4/29/2024


No comments at this time

Planning and Zoning: Reviewed by:  **Date:** 5/13/2024

Per section 4.12.2.11, a hotel is a permitted use.

Business License: Reviewed by:  **Date:** 4/29/2024

will need to apply for a occupational license before opening.

Code Enforcement: Reviewed by:  **Date:** 4/29/2024

No liens, codes or violations

Permitting: Reviewed by:  **Date:** 4/30/2024

permits will be required

Utilities – Water, Sewer, Gas, Water Distribution/Collections, Customer Service

Water Department: Reviewed by: DocuSigned by: Mike Osborn 8B6E039544B74E3... **Date:** 4/29/2024

No comments at this time

Sewer Department: Reviewed by: DocuSigned by: Cody Pridgen DBA01EF55AD249B... **Date:** 4/30/2024

none

Gas Department: Reviewed by: DocuSigned by: Steve Brown 8B57D0CE8F2F4B5... **Date:** 4/30/2024

No comment.

Water Distribution/Collection: Reviewed by: DocuSigned by: Brian Scott F599EB6125784F8... **Date:** 5/17/2024

no comments

Customer Service: Reviewed by: DocuSigned by: Shasta Pelham 8B097A03165D4E0... **Date:** 5/15/2024

A tap application will need to be submitted in order to request water, sewer, and/or natural gas services. The Utility fees will be calculated upon approval of the tap application.

Public Safety – Public Works, Fire Department, Police Department

Public Works: Reviewed by: DocuSigned by: Steve Brown 6B5700CE6F2F4B5... **Date:** 4/30/2024

No comment.

Fire Department: Reviewed by: DocuSigned by: Joshua Weinger 6AA3758BA88A46E... **Date:** 4/30/2024

I have no issues

Police Department: Reviewed by: _____ **Date:** _____

NOTE: Please provide separate pages for comments that will not fit in provided spaces and please label the pages for your department and for the project.

State and County- FDOT, Suwannee River Water Management, School Board, Columbia County

FDOT: Reviewed by: _____ Date: _____

[Empty box for FDOT comments]

Suwannee River Water Management: Reviewed by: DocuSigned by: Garrett Spencer Date: 5/6/2024
890C03058828420...

The applicant has applied for a permit with SRWMD. The permit number is ERP-023-209165-4.

School Board: Reviewed by: DocuSigned by: Keith Hatcher Date: 4/30/2024
96699F1916BC425...

No comments at this time.

County: Reviewed by: DocuSigned by: Chad Williams Date: 5/9/2024
35A47263EAD7416...

No issues were identified by this office at this time. This comment is provided by the County Engineer based only on the information contained in the application provided. This response does not constitute the engineer's professional opinion with respect to the project and does not constitute approval of any committee or board for Columbia County. Such opinions and approvals, if any, shall be as provided by County code or regulations.

NOTE: Please provide separate pages for comments that will not fit in provided spaces and please label the pages for your department and for the project.



GROWTH MANAGEMENT
 205 North Marion Ave.
 Lake City, FL 32055
 Telephone: (386)719-5750
 E-Mail:
 growthmanagement@lcfla.com

FOR PLANNING USE ONLY
 Application # SPR24-06
 Application Fee: \$200.00
 Receipt No. 2024-00049966
 Filing Date 4/26/24
 Completeness Date 4/29/24

Site Plan Application

A. PROJECT INFORMATION

1. Project Name: Lake City Hotels Phase 2
2. Address of Subject Property: N/A
3. Parcel ID Number(s): 35-3S-16-02582-002
4. Future Land Use Map Designation: Commercial
5. Zoning Designation: C1
6. Acreage: 3.971
7. Existing Use of Property: Vacant
8. Proposed use of Property: Hotels
9. Type of Development (Check All That Apply):
 - Increase of floor area to an existing structure: Total increase of square footage _____
 - New construction: Total square footage 50,850
 - Relocation of an existing structure: Total square footage _____

B. APPLICANT INFORMATION

1. Applicant Status Owner (title holder) Agent
2. Name of Applicant(s): Christopher A. Gmuer, PE Title: President
 Company name (if applicable): Gmuer Engineering, LLC
 Mailing Address: 2603 NW 13th Street, Box 314
 City: Gainesville State: FL Zip: 32609
 Telephone: (352) 281-4928 Fax: () Email: chrisg@gmuereng.com

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

3. If the applicant is agent for the property owner*:
 Property Owner Name (title holder): ERA Investments, LLC
 Mailing Address: 162 NW Birdie Pl
 City: Lake City State: FL Zip: 32055
 Telephone: (386) 984-0732 Fax: () Email: drpatel@primarycaremedic.com

PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from government officials regarding government business is subject to public records requests. Your e-mail address and communications may be subject to public disclosure.

***Must provide an executed Property Owner Affidavit Form authorizing the agent to act on behalf of the property owner.**

C. ADDITIONAL INFORMATION

- 1. Is there any additional contract for the sale of, or options to purchase, the subject property?
If yes, list the names of all parties involved: N/A
If yes, is the contract/option contingent or absolute: Contingent Absolute
- 2. Has a previous application been made on all or part of the subject property? Yes No
Future Land Use Map Amendment: Yes No
Future Land Use Map Amendment Application No. _____
Site Specific Amendment to the Official Zoning Atlas (Rezoning): Yes No
Site Specific Amendment to the Official Zoning Atlas (Rezoning) Application No. _____
Variance: Yes No
Variance Application No. _____
Special Exception: Yes No
Special Exception Application No. _____

D. ATTACHMENT/SUBMITTAL REQUIREMENTS

- 1. Vicinity Map – Indicating general location of the site, abutting streets, existing utilities, complete legal description of the property in question, and adjacent land use.
- 2. Site Plan – Including, but not limited to the following:
 - a. Name, location, owner, and designer of the proposed development.
 - b. Present zoning for subject site.
 - c. Location of the site in relation to surrounding properties, including the means of ingress and egress to such properties and any screening or buffers on such properties.
 - d. Date, north arrow, and graphic scale not less than one inch equal to 50 feet.
 - e. Area and dimensions of site (Survey).
 - f. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.
 - g. Access to utilities and points of utility hook-up.
 - h. Location and dimensions of all existing and proposed parking areas and loading areas.
 - i. Location, size, and design of proposed landscaped areas (including existing trees and required landscaped buffer areas).
 - j. Location and size of any lakes, ponds, canals, or other waters and waterways.
 - k. Structures and major features fully dimensioned including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and percent of property covered by structures.
 - l. Location of trash receptacles.
 - m. For multiple-family, hotel, motel, and mobile home park site plans:
 - i. Tabulation of gross acreage.
 - ii. Tabulation of density.
 - iii. Number of dwelling units proposed.
 - iv. Location and percent of total open space and recreation areas.
 - v. Percent of lot covered by buildings.

- vi. Floor area of dwelling units.
 - vii. Number of proposed parking spaces.
 - viii. Street layout.
 - ix. Layout of mobile home stands (for mobile home parks only).
3. Stormwater Management Plan—Including the following:
 - a. Existing contours at one foot intervals based on U.S. Coast and Geodetic Datum.
 - b. Proposed finished elevation of each building site and first floor level.
 - c. Existing and proposed stormwater management facilities with size and grades.
 - d. Proposed orderly disposal of surface water runoff.
 - e. Centerline elevations along adjacent streets.
 - f. Water management district surface water management permit.
 4. Fire Department Access and Water Supply Plan: The Fire Department Access and Water Supply Plan must demonstrate compliance with Chapter 18 of the Florida Fire Prevention Code, be located on a separate signed and sealed plan sheet, and must be prepared by a professional fire engineer licensed in the State of Florida. The Fire Department Access and Water Supply Plan must contain fire flow calculations in accordance with the Guide for Determination of Required Fire Flow, latest edition, as published by the Insurance Service Office (“ISO”) and/or Chapter 18, Section 18.4 of the Florida Fire Prevention Code, whichever is greater.
 5. Concurrency Impact Analysis: Concurrency Impact Analysis of impacts to public facilities. For commercial and industrial developments, an analysis of the impacts to Transportation, Potable Water, Sanitary Sewer, and Solid Waste impacts are required.
 6. Comprehensive Plan Consistency Analysis: An analysis of the application’s consistency with the Comprehensive Plan (analysis must identify specific Goals, Objectives, and Policies of the Comprehensive Plan and detail how the application complies with said Goals, Objectives, and Policies).
 7. Legal Description with Tax Parcel Number (In Word Format).
 8. Proof of Ownership (i.e. deed).
 9. Agent Authorization Form (signed and notarized).
 10. Proof of Payment of Taxes (can be obtained online via the Columbia County Tax Collector’s Office).
 11. Fee. The application fee for a Site and Development Plan Application is \$200.00. No application shall be accepted or processed until the required application fee has been paid.

NOTICE TO APPLICANT

All eleven (11) attachments are required for a complete application. Once an application is submitted and paid for, a completeness review will be done to ensure all the requirements for a complete application have been met. If there are any deficiencies, the applicant will be notified in writing. If an application is deemed to be incomplete, it may cause a delay in the scheduling of the application before the Planning & Zoning Board.

A total of ten (10) copies of proposed site plan application and all support materials must be submitted along with a PDF copy on a CD. See City of Lake City submittal guidelines for additional submittal requirements.

THE APPLICANT ACKNOWLEDGES THAT THE APPLICANT OR AGENT MUST BE PRESENT AT THE PUBLIC HEARING BEFORE THE PLANNING AND ZONING BOARD, AS ADOPTED IN THE BOARD RULES AND PROCEDURES. OTHERWISE THE REQUEST MAY BE CONTINUED TO A FUTURE HEARING DATE.

I hereby certify that all of the above statements and statements contained in any documents or plans submitted herewith are true and accurate to the best of my knowledge and belief.

Janak Shukla, Manager, ERA Investments, LLC

Applicant/Agent Name (Type or Print)

J R. Shukla.

Applicant/Agent Signature

11/16/23

Date

Applicant/Agent Name (Type or Print)

Applicant/Agent Signature

Date

STATE OF FLORIDA
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 16 day of Nov, 2023, by (name of person acknowledging).



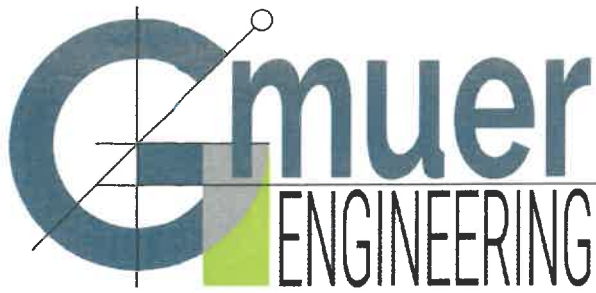
(NOTARY SEAL STAMP)

April Reeves

Signature of Notary

Printed Name of Notary

Personally Known OR Produced Identification _____
Type of Identification Produced



2603 NW 13th St, Box 314
Gainesville, FL 32609
Ph. (352) 281-4928

gmuereng.com

April 25, 2024

Department of Growth Management, City of Lake City
205 North Marion Avenue, Lake City, Florida. 32055

Re: Lake City Hotels Phase 2

Dear Staff,

This package is submitted as a Site and Development Plan Application to Lake City. The project proposes the construction of a second hotel with associated parking and utility infrastructure at 3004 W US Hwy 90, Lake City, FL. The hotel will be internal to the site and will connect to the drive isles and utility mains constructed with Phase 1. Please see the list below of items included with this application.

Attachments:

- Fee in the amount of \$200.00
- Site Plan Application
- Concurrency Impact Analysis
- Comprehensive Plan Consistency Analysis
- Legal Description (word format)
- Warranty Deed
- Agent Authorization Form
- Proof of Payment of Taxes
- Stormwater Management Report
- Fire Department Access and Water Supply Plan
- SRWMD Permit
- 2 Sets of Plans

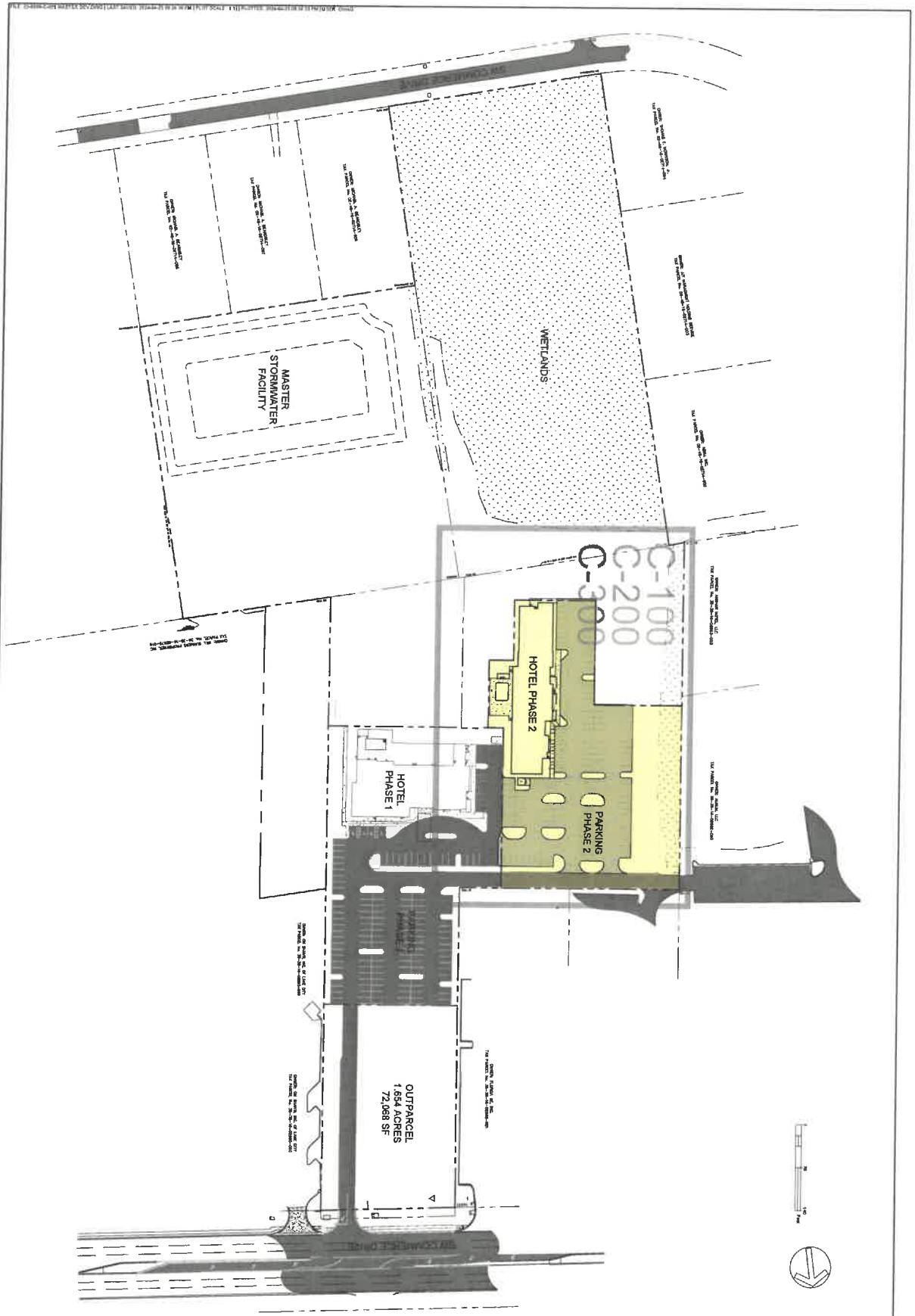
Please let us know if you need any additional information for your review.

Sincerely,
Gmuer Engineering, LLC
Christopher A Gmuer, PE
President

A handwritten signature in blue ink, appearing to read 'Christopher A. Gmuer', is positioned to the right of the typed name.

1 of 1

elegant solutions | technology driven | civil engineering



C-001 MASTER DEVELOPMENT PLAN	LAKE CITY HOTELS PHASE 2	CLIENT: ERA INVESTMENTS LLC DESIGN: C.A. SHAFER, PE QUALITY CONTROL: C.A. SHAFER, PE SITE PLAN APP #: 19193 APP # 19193 USGIP PROJECT #: 19193	 FL CA # 15153 gmuier@cmuier.com (352) 291-4200 2900 WY 15th ST. Box 214 Gainesville, FL 32606	 REGISTERED PROFESSIONAL ENGINEER STATE OF FLORIDA C.A. SHAFER No. 77388	PERMITTING / DESIGN REVISIONS 2024-04-01 INITIAL CLIENTIFY BASE DRAWING 2024-04-01 30% SUBMITTAL 2024-04-01 90% PLANS FOR CLIENT REVIEW 2024-03-08 90% PLANS FOR CLIENT REVIEW 2024-04-23 INITIAL SUBMITTAL TO LAKE CITY & BROWARD	PRELIMINARY BUDGETING
	PRICEING CONSTRUCTION					

STORMWATER MINIMUM OPERATION AND MAINTENANCE STANDARDS

1. OPERATOR SHALL MAINTAIN RECORDS OF ALL OPERATIONS AND MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE STANDARDS.
2. OPERATOR SHALL MAINTAIN RECORDS OF ALL OPERATIONS AND MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE STANDARDS.
3. OPERATOR SHALL MAINTAIN RECORDS OF ALL OPERATIONS AND MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE STANDARDS.
4. OPERATOR SHALL MAINTAIN RECORDS OF ALL OPERATIONS AND MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE STANDARDS.
5. OPERATOR SHALL MAINTAIN RECORDS OF ALL OPERATIONS AND MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE STANDARDS.

DESIGN ELEMENTS AND INFORMATION FURNISHED BY OTHERS

1. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL DESIGN INFORMATION FURNISHED BY OTHERS.
2. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL DESIGN INFORMATION FURNISHED BY OTHERS.
3. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL DESIGN INFORMATION FURNISHED BY OTHERS.

UTILITY LOCATES, RELOCATION, PROTECTION AND INSTALLATION

1. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL RELOCATE OR PROTECT ALL UTILITIES AS REQUIRED.
3. THE CONTRACTOR SHALL RELOCATE OR PROTECT ALL UTILITIES AS REQUIRED.

SAFETY AND TEMPORARY TRAFFIC CONTROL (MUTATION OF TRAFFIC)

1. THE CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO ALL ADJACENT PROPERTIES.
2. THE CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO ALL ADJACENT PROPERTIES.
3. THE CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO ALL ADJACENT PROPERTIES.

GENERAL AND MISCELLANEOUS NOTES

1. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.
2. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.
3. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.

PERMITTING, CONSTRUCTION STANDARDS, SUBMITTALS, REQUESTS FOR INFORMATION, INSPECTIONS, TESTING, PUNCH LISTS, RECORD DRAWINGS, AND AS-BUILTS

1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL SUBMIT ALL NECESSARY SUBMITTALS TO THE AUTHORITY HAVING JURISDICTION.
3. THE CONTRACTOR SHALL ALLOW ACCESS TO ALL ADJACENT PROPERTIES FOR INSPECTIONS AND TESTING.
4. THE CONTRACTOR SHALL MAINTAIN ALL RECORD DRAWINGS AND AS-BUILTS.

WORK WITHIN THE COUNTY RIGHT-OF-WAY

1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY.
2. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.
3. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.

STORMWATER POLLUTION PREVENTION PLAN

1. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN.
2. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN.
3. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN.

GENERAL LEGEND - SEE PLANS FOR ADDITIONAL CALLOUTS

1. 0.5" = 1'-0"	1. 0.5" = 1'-0"	1. 0.5" = 1'-0"	1. 0.5" = 1'-0"
2. 1" = 2'-0"	2. 1" = 2'-0"	2. 1" = 2'-0"	2. 1" = 2'-0"
3. 1/2" = 1'-0"	3. 1/2" = 1'-0"	3. 1/2" = 1'-0"	3. 1/2" = 1'-0"
4. 3/8" = 1'-0"	4. 3/8" = 1'-0"	4. 3/8" = 1'-0"	4. 3/8" = 1'-0"
5. 1/4" = 1'-0"	5. 1/4" = 1'-0"	5. 1/4" = 1'-0"	5. 1/4" = 1'-0"
6. 3/16" = 1'-0"	6. 3/16" = 1'-0"	6. 3/16" = 1'-0"	6. 3/16" = 1'-0"
7. 1/8" = 1'-0"	7. 1/8" = 1'-0"	7. 1/8" = 1'-0"	7. 1/8" = 1'-0"
8. 3/32" = 1'-0"	8. 3/32" = 1'-0"	8. 3/32" = 1'-0"	8. 3/32" = 1'-0"
9. 1/32" = 1'-0"	9. 1/32" = 1'-0"	9. 1/32" = 1'-0"	9. 1/32" = 1'-0"
10. 1/64" = 1'-0"	10. 1/64" = 1'-0"	10. 1/64" = 1'-0"	10. 1/64" = 1'-0"

STANDARD ABBREVIATIONS

ADJUTANT GENERAL	ADJUTANT GENERAL
ADJUTANT GENERAL	ADJUTANT GENERAL
ADJUTANT GENERAL	ADJUTANT GENERAL
ADJUTANT GENERAL	ADJUTANT GENERAL
ADJUTANT GENERAL	ADJUTANT GENERAL

PERMITS/DESIGN REVISIONS

NO. 1	NO. 1
NO. 2	NO. 2
NO. 3	NO. 3
NO. 4	NO. 4
NO. 5	NO. 5
NO. 6	NO. 6
NO. 7	NO. 7
NO. 8	NO. 8
NO. 9	NO. 9
NO. 10	NO. 10

PACING

1. 0.5" = 1'-0"	1. 0.5" = 1'-0"
2. 1" = 2'-0"	2. 1" = 2'-0"
3. 1/2" = 1'-0"	3. 1/2" = 1'-0"
4. 3/8" = 1'-0"	4. 3/8" = 1'-0"
5. 1/4" = 1'-0"	5. 1/4" = 1'-0"
6. 3/16" = 1'-0"	6. 3/16" = 1'-0"
7. 1/8" = 1'-0"	7. 1/8" = 1'-0"
8. 3/32" = 1'-0"	8. 3/32" = 1'-0"
9. 1/32" = 1'-0"	9. 1/32" = 1'-0"
10. 1/64" = 1'-0"	10. 1/64" = 1'-0"

PRELIMINARY BUDGETING

1. 0.5" = 1'-0"	1. 0.5" = 1'-0"
2. 1" = 2'-0"	2. 1" = 2'-0"
3. 1/2" = 1'-0"	3. 1/2" = 1'-0"
4. 3/8" = 1'-0"	4. 3/8" = 1'-0"
5. 1/4" = 1'-0"	5. 1/4" = 1'-0"
6. 3/16" = 1'-0"	6. 3/16" = 1'-0"
7. 1/8" = 1'-0"	7. 1/8" = 1'-0"
8. 3/32" = 1'-0"	8. 3/32" = 1'-0"
9. 1/32" = 1'-0"	9. 1/32" = 1'-0"
10. 1/64" = 1'-0"	10. 1/64" = 1'-0"

NOTES AND LEGEND

1. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.
2. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.
3. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.


CLIENT

ERA INVESTMENTS LLC
 C.A. GIBBS & CO.
 2500 UNIVERSITY AVENUE, SUITE 200
 ANN ARBOR, MI 48106-1500

PERMITS/DESIGN REVISIONS

NO. 1	NO. 1
NO. 2	NO. 2
NO. 3	NO. 3
NO. 4	NO. 4
NO. 5	NO. 5
NO. 6	NO. 6
NO. 7	NO. 7
NO. 8	NO. 8
NO. 9	NO. 9
NO. 10	NO. 10

CONTRACTOR



Gibbs
ENGINEERING

11300 UNIVERSITY AVENUE, SUITE 200
ANN ARBOR, MI 48106-1500
PH: 734.769.1300

NOTES AND LEGEND

1. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.
2. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.
3. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES.


CLIENT

ERA INVESTMENTS LLC
 C.A. GIBBS & CO.
 2500 UNIVERSITY AVENUE, SUITE 200
 ANN ARBOR, MI 48106-1500

PERMITS/DESIGN REVISIONS

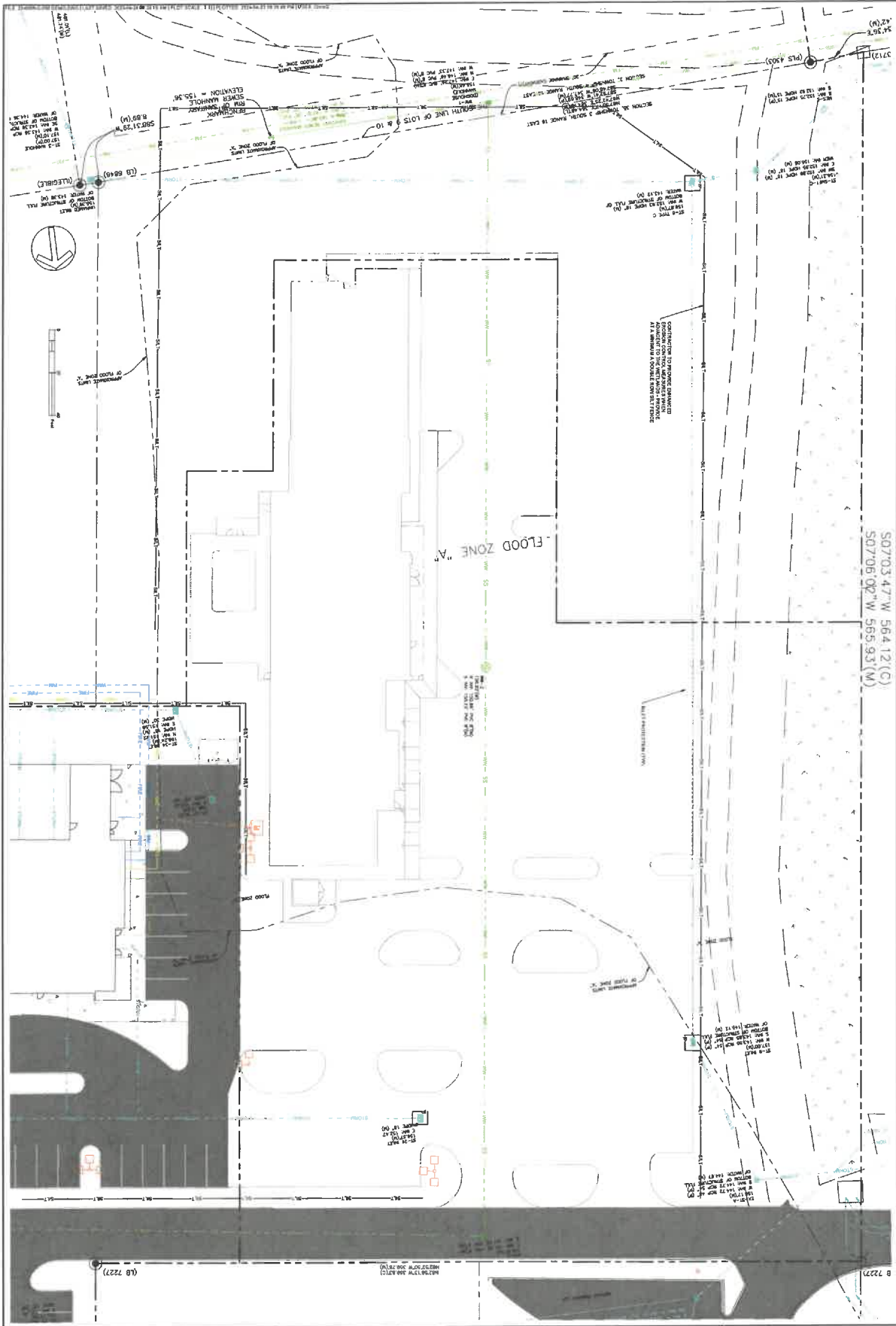
NO. 1	NO. 1
NO. 2	NO. 2
NO. 3	NO. 3
NO. 4	NO. 4
NO. 5	NO. 5
NO. 6	NO. 6
NO. 7	NO. 7
NO. 8	NO. 8
NO. 9	NO. 9
NO. 10	NO. 10

CONTRACTOR

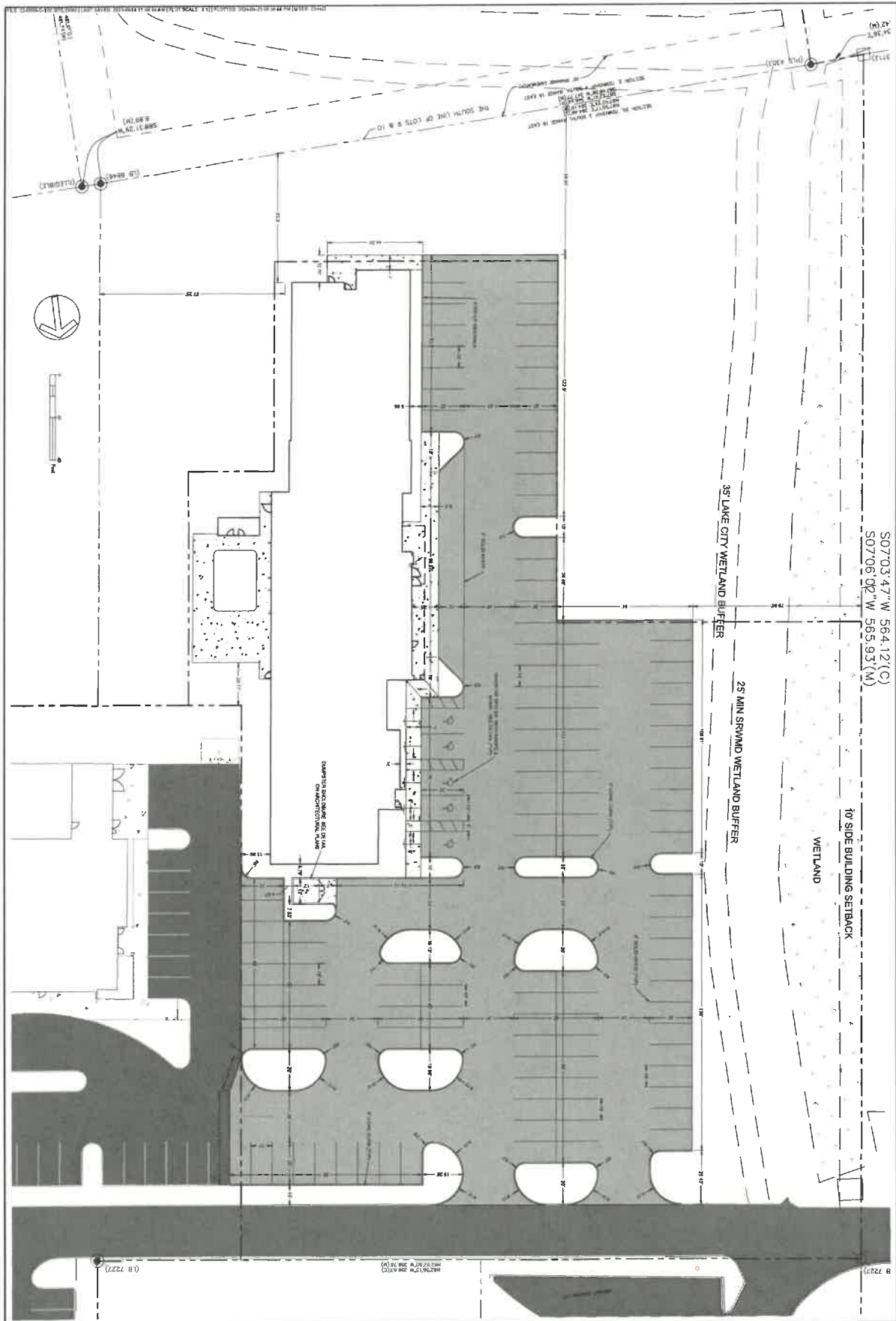


Gibbs
ENGINEERING

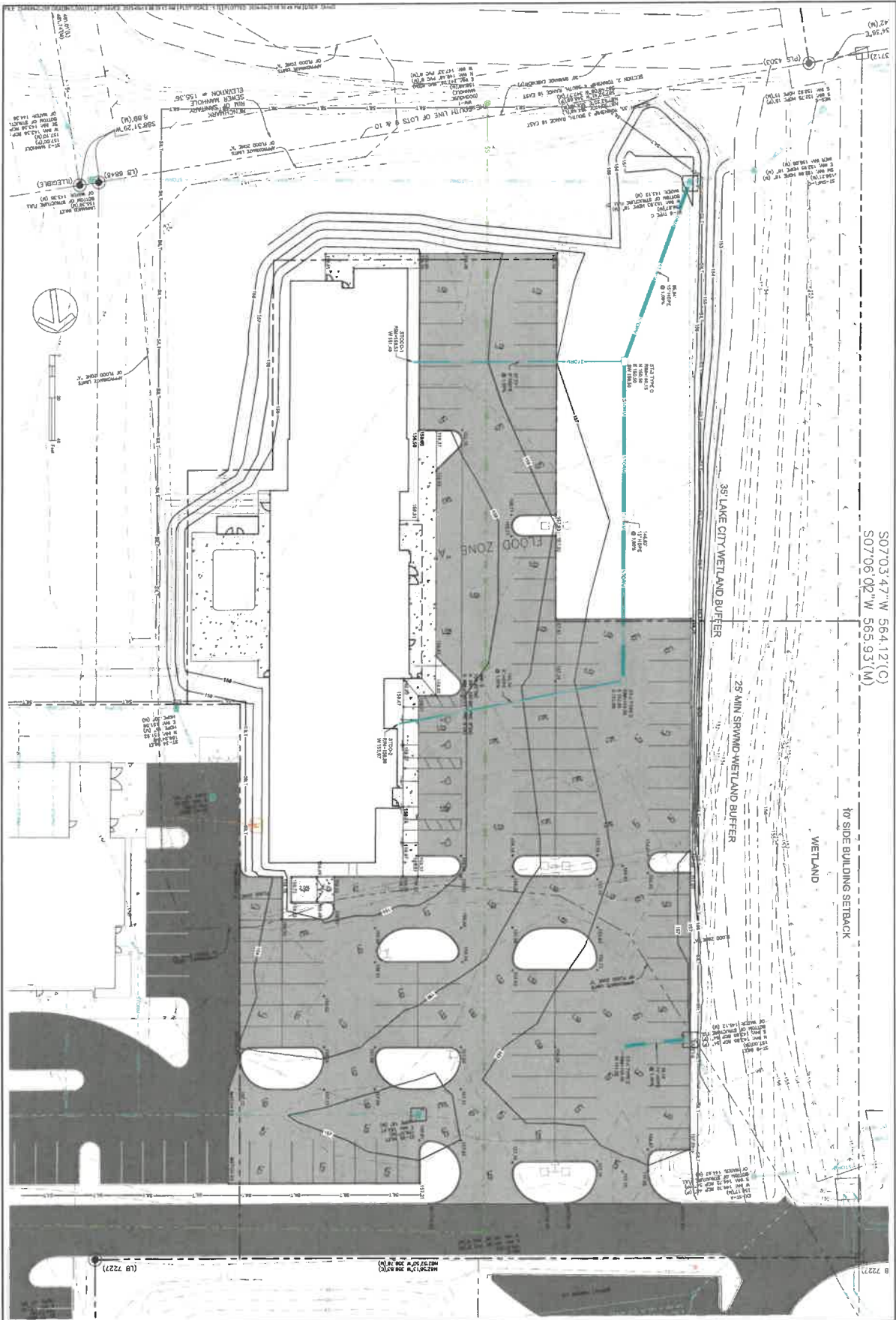
11300 UNIVERSITY AVENUE, SUITE 200
ANN ARBOR, MI 48106-1500
PH: 734.769.1300



C-050 DEMOLITION & EROSION CONTROL PLAN	CLIENT: ERA INVESTMENTS LLC DESIGN: C.A. GRUBER, PE QUALITY CONTROL: C.A. GRUBER, PE DATE: 7/20/2023 TIME: 10:00 AM PROJECT: LAKE CITY HOTELS PHASE 2	 Gruer ENGINEERING 2903 NW 136th St, Suite 214, Ocala, FL 32060 (352) 281-4820 www.gruereng.com	 STATE OF FLORIDA PROFESSIONAL ENGINEER C.A. GRUBER NO. 71906	PERMITTING / DESIGN REVIEWS: 2023-1-28 INITIAL CONCEPT BASE DRAWING 2023-02-09 PRELIMINARY 2023-06-15 60% PLANS FOR CLIENT REVIEW 2023-08-08 60% PLANS FOR CLIENT REVIEW 2023-08-21 INITIAL SUBMITTAL TO LAKE CITY & SRWMD	PRELIMINARY BUDGETING
	PRELIMINARY BUDGETING			PRELIMINARY BUDGETING	



C-100 SITE & HORIZONTAL CONTROL PLAN	CLIENT: ERA INVESTMENTS LLC DESIGN: C.A. OMBEK, PE QUALITY CONTROL: C.A. OMBEK, PE SITE PLAN APP # TSD WSD APP # TSD OTHER PROJECT # 23-008	 Gmuer ENGINEERING FL CA # 31523 gmuereng.com (352) 281-4820 2400 HWY 136 ST, Box 314 Ocala, FL 32068	 STATE OF FLORIDA PROFESSIONAL ENGINEER No. 21368 C.A. OMBEK	PREPARED BY / DESIGN REVISIONS 2023-11-30 INITIAL CONCEPT BASE DRAWING 2023-05-01 20% SUBMITTAL 2023-04-18 80% PLANS FOR CLIENT REVIEW 2024-03-08 80% PLANS FOR CLIENT REVIEW 2024-04-02 METAL SUBMITTAL TO LAKE CITY & DOWNS	PRELIMINARY BUDGETING
	PRECISO CONSTRUCTION			PRELIMINARY BUDGETING	



S07'03.47"W 564.12'(C)
 S07'06.02"W 565.93'(M)

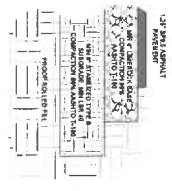
to SIDE BUILDING SETBACK

WETLAND

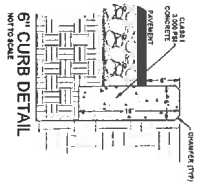
35' LAKE CITY WETLAND BUFFER

25' MIN SRWMD WETLAND BUFFER

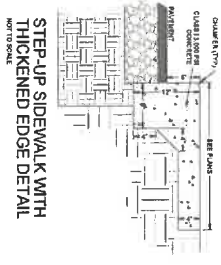
C-200 GRADING & DRAINAGE PLAN	CLIENT: ERA INVESTMENTS LLC DESIGN: C.A. OMBER, PE QUALITY CONTROL: C.A. OMBER, PE DATE: 12/20/2020 TIME: 2:00PM PROJECT: LAKE CITY HOTELS PHASE 2	<p>FL CA # 21523 gmuereng.com (562) 281-4829 2902 NW 130 ST, Suite 314 - Ocala, FL 32067</p>		PERMITS / DESIGN REVISIONS 2023-11-30 INITIAL CONCEPT BASE DRAWING 2023-05-01 30% SUBMITTAL 2023-08-18 85% PLAN FOR CLIENT REVIEW 2024-02-08 85% PLAN FOR CLIENT REVIEW 2024-04-03 INITIAL SUBMITTAL TO LAKE CITY & SRWMD	PRELIMINARY: BIDDING PROPOSED: CONSTRUCTION
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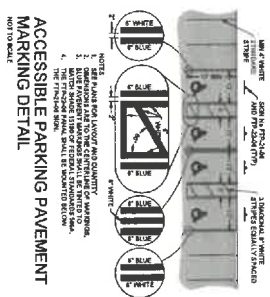
PAVEMENT DESIGN DETAIL
NOT TO SCALE



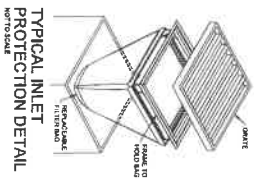
6\"/>



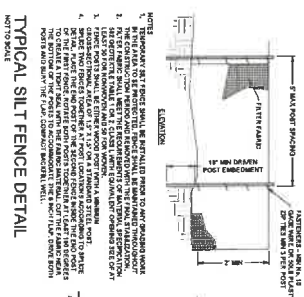
STEP-UP SIDEWALK WITH THICKENED EDGE DETAIL
NOT TO SCALE



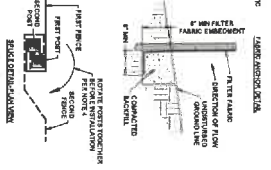
ACCESSIBLE PARKING PAVEMENT MARKING DETAIL
NOT TO SCALE



TYPICAL INLET PROTECTION DETAIL
NOT TO SCALE

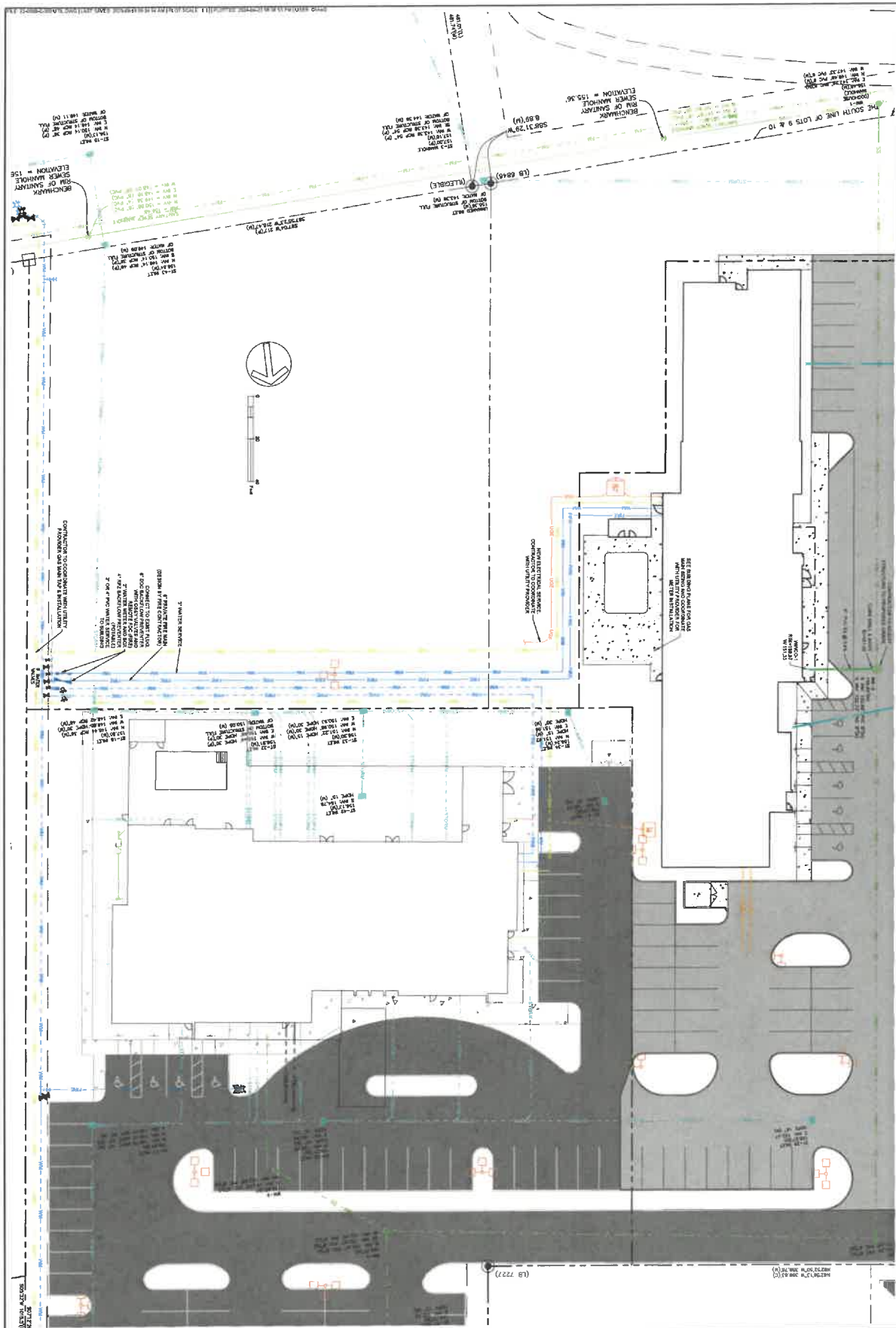


TYPICAL SILT FENCE DETAIL
NOT TO SCALE



LARGE ANCHOR DETAIL

<p>CLIENT: ERA INVESTMENTS LLC</p> <p>DESIGN: C.A. OLMIER, PE</p> <p>QUALITY CONTROL: C.A. OLMIER, PE</p> <p>SITE PLAN APP # YSD APP # 23A006</p> <p>OTHER PROJECT #</p>	<p>DATE: 1/23/2024</p> <p>TIME: 10:00 AM</p> <p>PROJECT: 23A006</p>	<p>FL CA # 31593 gmuering.com (352) 281-6426</p> <p>2805 NW 136 ST, Ste 104 Ocala, FL 32068</p>		<p>PERMITTING / DESIGN REVISIONS</p> <p>2023-11-29 INITIAL CONCEPT BASE DRAWING</p> <p>2023-12-05 90% SUBMITTAL</p> <p>2024-01-23 90% PLANS FOR CLIENT REVIEW</p> <p>2024-02-08 90% PLANS FOR CLIENT REVIEW</p> <p>2024-02-29 INITIAL SUBMITTAL TO LAKE CITY & BRWAD</p>	<p>PRICING</p> <p>CONSTRUCTION</p>	<p>PRELIMINARY</p> <p>BUDGETING</p>
				<p>DATE: 1/23/2024</p> <p>TIME: 10:00 AM</p> <p>PROJECT: 23A006</p>		



C-300

UTILITY PLAN

LAKE CITY
HOTELS
PHASE 2

CLIENT: ERA INVESTMENTS LLC
 DESIGN: C.A. GAMER, PE
 QUALITY CONTROL: C.A. GAMER, PE
 SITE PLAN APP # TBD
 VWS APP # TBD
 DRWG PROJECT # 22-006

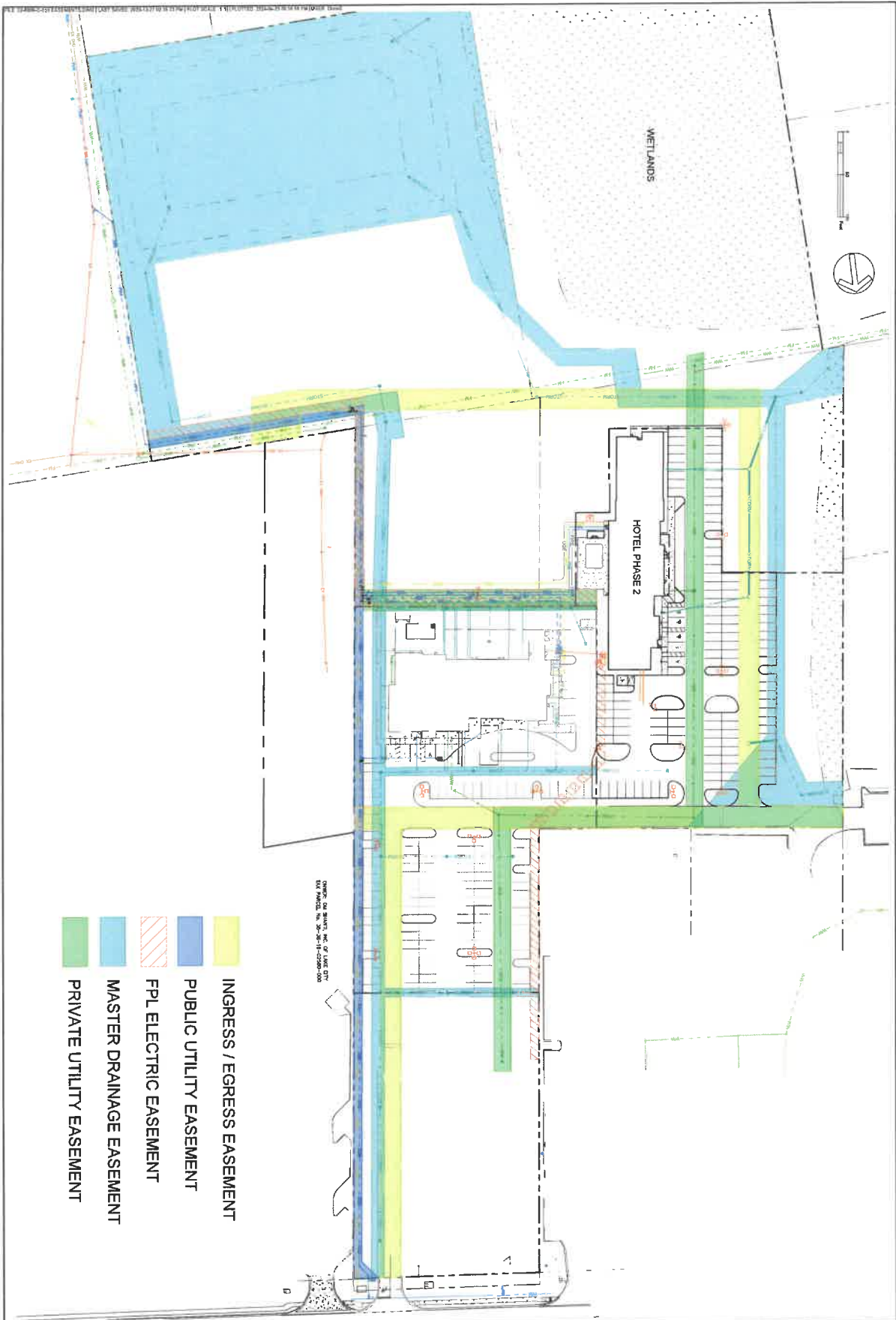


FL CA # 31533 | 9700wong.com | (407) 281-4928
 2805 NW 13th ST, Box 314 | Ocala, FL 32909

PERMITTED / DESIGN & CONSTRUCTION
 2023-11-28 INITIAL CONCEPT BASE DRAWING
 2023-03-01 30% SUBMITTAL
 2023-08-18 60% PLANS FOR CLIENT REVIEW
 2024-02-06 90% PLANS FOR CLIENT REVIEW
 2024-03-07 INITIAL SUBMITTAL TO LAKE CITY & SRWMD

CONSTRUCTION

PRELIMINARY	BUDGETING
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- INGRESS / EGRESS EASEMENT
- PUBLIC UTILITY EASEMENT
- FPL ELECTRIC EASEMENT
- MASTER DRAINAGE EASEMENT
- PRIVATE UTILITY EASEMENT

CHECK FOR SHARPS, INC. OF LAKE CITY
FOR PARCEL NO. 26-26-26-14-02000-000

<p>C-310</p> <p>EASEMENTS</p>	<p>LAKE CITY HOTELS PHASE 2</p>	<p>CLIENT: EFA INVESTMENTS LLC</p> <p>DESIGN: C.A. OMAER, PE</p> <p>QUALITY CONTROL: C.A. OMAER, PE</p> <p>SITE PLAN APP #</p> <p>WEG APP #</p> <p>ODG PROJECT #</p>	<p>TITLE: 22-008</p>	 <p>FL CA# 31523 gmuer.com (852) 261-6828</p> <p>2902 HWY 17th ST, Suite 314 Ocala, FL 32069</p>		<p>PERMITTING / DESIGN REVISIONS</p> <p>2022-11-29 INITIAL CONCEPT BASE DRAWING</p> <p>2023-05-01 20% SUBMITTAL</p> <p>2023-08-18 80% PLANS FOR CLIENT REVIEW</p> <p>2024-02-08 90% PLANS FOR CLIENT REVIEW</p> <p>2024-03-03 FINAL SUBMITTAL TO LAKE CITY & SRWMD</p>	<p>PRICING</p> <p>CONSTRUCTION</p>	<p>PRELIMINARY</p> <p>BUDGETING</p>
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WATER CONSTRUCTION STANDARDS

SCORE

1. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall also be responsible for obtaining all necessary materials and equipment for the project.

2. The contractor shall be responsible for the safety of all workers and the public during the construction process. The contractor shall also be responsible for the protection of the environment and the surrounding area.

3. The contractor shall be responsible for the quality of the work and the materials used. The contractor shall also be responsible for the timely completion of the project.

4. The contractor shall be responsible for the maintenance of the project site during the construction process. The contractor shall also be responsible for the removal of all debris and materials from the site.

5. The contractor shall be responsible for the payment of all taxes and fees associated with the project.

6. The contractor shall be responsible for the coordination of all construction activities with the other trades and subcontractors.

7. The contractor shall be responsible for the communication of all project information to the client and the public.

8. The contractor shall be responsible for the documentation of all construction activities and materials used.

9. The contractor shall be responsible for the completion of all construction activities in accordance with the project specifications and standards.

10. The contractor shall be responsible for the final inspection and acceptance of the project by the client and the appropriate authorities.

SCHEDULE OF MATERIALS

NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
1	PIPE	100	FEET	
2	VALVE	5	PIECES	
3	ELBOW	10	PIECES	
4	FLANGE	5	PIECES	
5	WELDED JOINT	10	PIECES	
6	PAINT	100	GALLONS	
7	LABOR	1000	HOURS	
8	EQUIPMENT	100	HOURS	
9	PERMITS	1	SET	
10	INSURANCE	1	YEAR	

WASTEWATER CONSTRUCTION STANDARDS

SCORE

1. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall also be responsible for obtaining all necessary materials and equipment for the project.

2. The contractor shall be responsible for the safety of all workers and the public during the construction process. The contractor shall also be responsible for the protection of the environment and the surrounding area.

3. The contractor shall be responsible for the quality of the work and the materials used. The contractor shall also be responsible for the timely completion of the project.

4. The contractor shall be responsible for the maintenance of the project site during the construction process. The contractor shall also be responsible for the removal of all debris and materials from the site.

5. The contractor shall be responsible for the payment of all taxes and fees associated with the project.

6. The contractor shall be responsible for the coordination of all construction activities with the other trades and subcontractors.

7. The contractor shall be responsible for the communication of all project information to the client and the public.

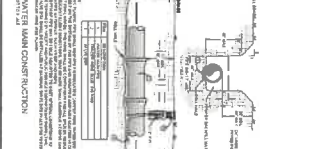
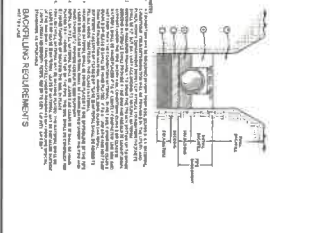
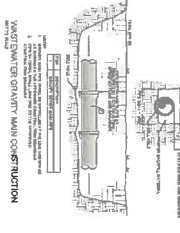
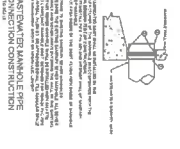
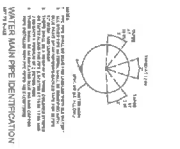
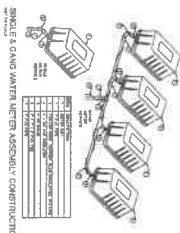
8. The contractor shall be responsible for the documentation of all construction activities and materials used.

9. The contractor shall be responsible for the completion of all construction activities in accordance with the project specifications and standards.

10. The contractor shall be responsible for the final inspection and acceptance of the project by the client and the appropriate authorities.

SCHEDULE OF MATERIALS

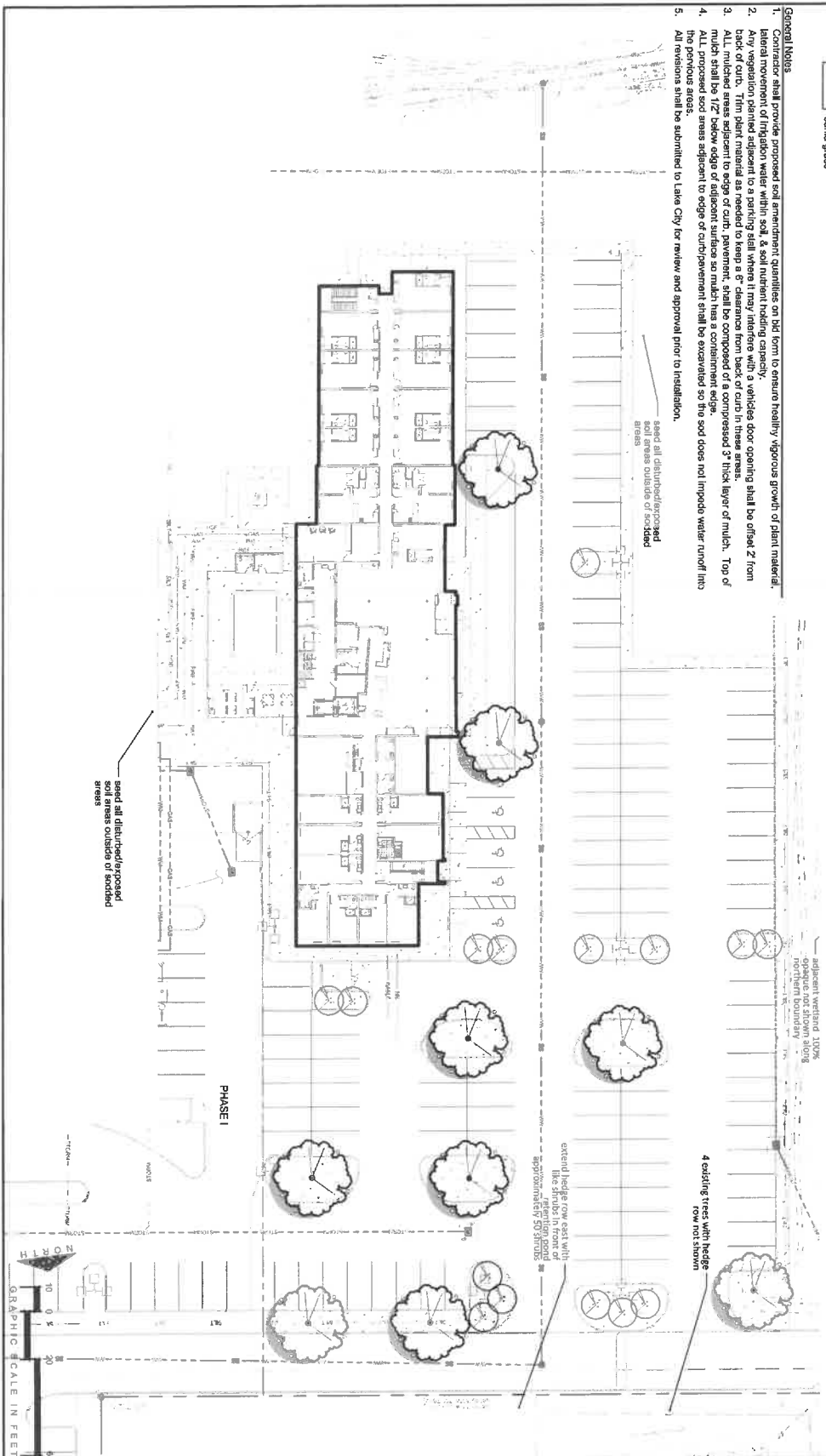
NO.	DESCRIPTION	QUANTITY	UNIT	REMARKS
1	PIPE	100	FEET	
2	VALVE	5	PIECES	
3	ELBOW	10	PIECES	
4	FLANGE	5	PIECES	
5	WELDED JOINT	10	PIECES	
6	PAINT	100	GALLONS	
7	LABOR	1000	HOURS	
8	EQUIPMENT	100	HOURS	
9	PERMITS	1	SET	
10	INSURANCE	1	YEAR	



C-350 UTILITY DETAILS	CLIENT: ERA INVESTMENTS, LLC DESIGN: C.A. GIBBER, P.E. QUALITY CONTROL: C.A. GIBBER, P.E. SITE PLAN APP # 19862 APP # 19862 PROJECT # 19862	 Gibber ENGINEERING 2903 HWY 198 ST., SUITE 110 FL, CA # 31522 (952) 281-4429	PERMITTING / DESIGN REVIEWS 2023-11-24 INITIAL CONCEPT BASE DRAWING 2023-12-01 50% PERMITS FOR CLIENT REVIEW 2023-12-08 80% PERMITS FOR CLIENT REVIEW 2023-12-15 90% PERMITS FOR CLIENT REVIEW	PRELIMINARY BIDDING
	CLIENT: ERA INVESTMENTS, LLC DESIGN: C.A. GIBBER, P.E. QUALITY CONTROL: C.A. GIBBER, P.E. SITE PLAN APP # 19862 APP # 19862 PROJECT # 19862		PERMITTING / DESIGN REVIEWS 2023-11-24 INITIAL CONCEPT BASE DRAWING 2023-12-01 50% PERMITS FOR CLIENT REVIEW 2023-12-08 80% PERMITS FOR CLIENT REVIEW 2023-12-15 90% PERMITS FOR CLIENT REVIEW	PRELIMINARY BIDDING

Quantity	Abbr.	Botanical Name /	Size / Caliper	Spacing	Comments
9		<i>Quercus virginiana</i> live oak	12"HT, 3" CAL	per plan	
15		<i>Lagerströmia indica</i> 'Natchez' crape myrtle	15"HT, 4" CAL	per plan	
Shrubs					
50		Match existing at Pond	18"HT X 18"SPR	per existing	
GROUNDCOVERS					
3234SF		Pine Bark Mulch			
X 3" thick					
15,265SF		<i>Paspalum notatum</i> 'Argentina' Satin Grass			

- General Notes**
- Contractor shall provide proposed soil amendment quantities on bid form to ensure healthy vigorous growth of plant material. Lateral movement of irrigation water within soil & soil nutrient holding capacity.
 - Any vegetation planted adjacent to a parking stall where it may interfere with a vehicles door opening shall be offset 2' from back of curb. Thin plant material as needed to keep a 6" clearance from back of curb in these areas.
 - ALL mulched areas adjacent to edge of curb, pavement, shall be composed of a compressed 3" thick layer of mulch. Top of mulch shall be 1/2" below edge of adjacent surface so much has a containment edge.
 - ALL proposed sod areas adjacent to edge of curb/pavement shall be excavated so the sod does not impede water runoff into the previous areas.
 - All revisions shall be submitted to Lake City for review and approval prior to installation.



LS-01	PLANS PREPARED BY		LAKE CITY HOTEL Phase 2 Lake City, FL	LANDSCAPE PLAN	Seaton Design Inc. 1000 Lake City Road, Suite 100 Lake City, FL 33701 Phone: 813.426.1234 Fax: 813.426.1235 www.seatondesign.com
	BOL NO.	23219			
	DRAWN BY:	BOB			
	DESIGNED BY:	BOB			
	CHECKED BY:	BOB			
	DATE:	9/20/2023			



Legend

- stevee
- blank poly tubing
- control
- control valves
- 1/2" drip shut-off valve
- zone # and flow rate in gallons per minute

• sleeves - Unless specified on plans all lateral in pipe, install pipe in sleeve and cap both ends 12' beyond end of sleeve.
 * Irrigation lateral lines and stevees may be installed in suitable locations within property boundaries.

Number of emitters per tree/shrub		Infiltration Schedule
live oak	2-25gpi emitters	Description
corp myrtle	1-15gpi emitters	Quantity
height @ pond		
		Rainbird 0185-DX Sensor
		Rainbird 07FS-DV
		Rainbird PSI-AMOX-100
		Rainbird QKCHK-100 drip filers
		Rainbird XE-D5PC drip emitter
		Rainbird XE-11PC drip emitter
		Rainbird XE-25PC drip emitter
		Rainbird XE-50PC drip emitter
		Rainbird DVAL-50-1S139 drip valve
		Rain Bird PVBIRD 6 in. round valve box
		12" PemaLoc EndCap w/Flush Valve
		9" 9-gauge galvanized ground staples

Installation Notes

- Drip line shall be installed on top of soil and covered with mulch.
- Drip line shall be installed on top of soil and covered with mulch.
- Drip line shall be installed on top of soil and covered with mulch.
- Drip line shall be installed on top of soil and covered with mulch.
- Drip line shall be installed on top of soil and covered with mulch.
- Drip line shall be installed on top of soil and covered with mulch.
- Drip line shall be installed on top of soil and covered with mulch.

Watering Schedule for Zone 1 & 2

Water shall be applied during the first (90) thirty days and every other day for the next (90) thirty days thereafter. Follow watering restrictions per jurisdiction until established. Shrub drip valves may be shut-off after (3) three months. After (1) one year trees should be sufficiently rooted into existing soil for shut-down; however, it is recommended that a review be performed by a certified arborist before shutting off the drip system. Baiting shall be performed in the event of a drought occurs. Baiting grass shall be temporarily watered via hand moved sprinklers for two weeks if rainfall is not occurring as needed.

IRRIGATION PLAN

LAKE CITY HOTEL
Phase 2
Lake City, FL

PLANS PREPARED BY	BOI NO.	23219	REVISIONS
DRAWN BY:	BOB		
DESIGNED BY:	BOB		
CHECKED BY:	BOB		
DATE:	9/26/2023		

AS-BUILT SURVEY

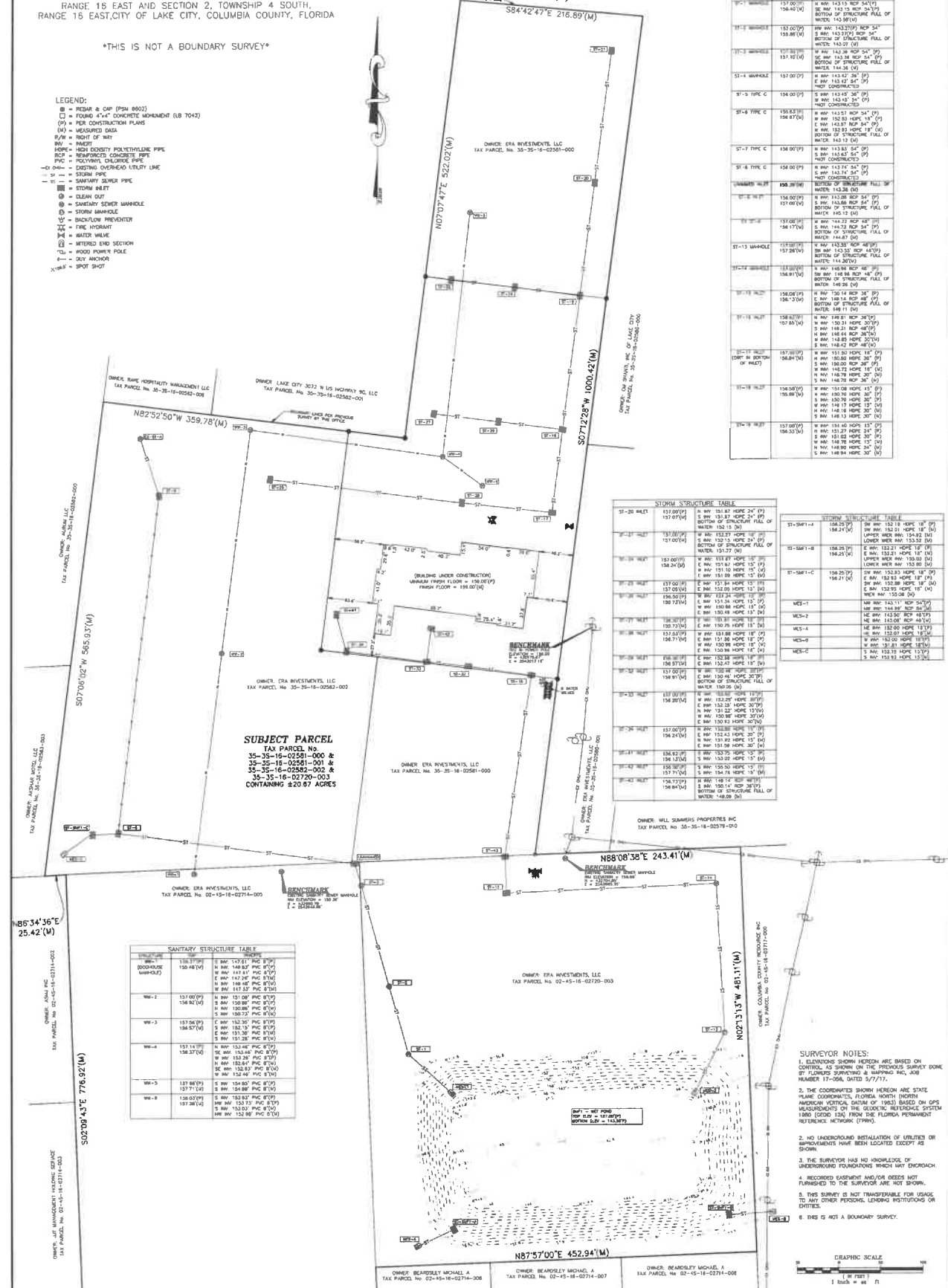
LYING IN SECTION 33, TOWNSHIP 3 SOUTH,
RANGE 16 EAST AND SECTION 2, TOWNSHIP 4 SOUTH,
RANGE 16 EAST, CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA

THIS IS NOT A BOUNDARY SURVEY

LEGEND:

- = REBAR & CUR (FSH 8502)
- = FORMED 4" x 4" CONCRETE W/REINFORCEMENT (LB 7043)
- (S) = PER CONSTRUCTION PLANS
- (M) = MEASURED DATA
- P/W = RIGHT OF WAY
- BN = BENCH MARK
- HCN = HIGH DENSITY POLYETHYLENE PIPE
- RCN = REINFORCED CONCRETE PIPE
- PCN = POLYVINYL CHLORIDE PIPE
- OCN = DRAIN OVERHEAD UTILITY LINE
- SN = SANITARY SEWER PIPE
- ST = STORM SEWER
- = CLEAN OUT
- ⊙ = SANITARY SEWER MANHOLE
- ⊙ = STORM MANHOLE
- ⊙ = BACKFLOW PREVENTER
- ⊙ = FIRE HYDRANT
- ⊙ = WATER WELLS
- ⊙ = INTERFERED END SECTION
- ⊙ = WOOD POWER POLE
- = DIRT MOUND
- ⊙ = SPOT SHOT

U.S. HIGHWAY No. 80
(104 R/W)



SANITARY STRUCTURE TABLE

STRUCTURE	TYPE	INVERT	DIAMETER	LENGTH	START	END
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48

STORM STRUCTURE TABLE

STRUCTURE	TYPE	INVERT	DIAMETER	LENGTH	START	END
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48

STORM STRUCTURE TABLE

STRUCTURE	TYPE	INVERT	DIAMETER	LENGTH	START	END
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48
MANHOLE	150	150.48	150	150	150.48	150.48

SURVEYOR NOTES:

- ELEVATIONS SHOWN HEREON ARE BASED ON CONTROL AS SHOWN ON THE PREVIOUS SURVEY DONE BY FLOWERS SURVEYING & MAPPING INC., JOB NUMBER 17-000, DATED 07/17/17.
- THE COORDINATES SHOWN HEREON ARE STATE PLANE COORDINATES, FLORIDA NORTH (NORTH AMERICAN HORIZONTAL DATUM OF 1983) BASED ON GPS MEASUREMENTS ON THE GEODETIC REFERENCE SYSTEM 1980 (GCRS 1980) FROM THE FLORIDA PERMANENT REFERENCE NETWORK (FRPN).
- NO UNDERGROUND INSTALLATION OF UTILITIES OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.
- THE SURVEYOR HAS NO KNOWLEDGE OF UNDERGROUND FOUNDATIONS WHICH MAY ENCROACH.
- A RECORDED EASEMENT AND/OR DEEDS NOT FURNISHED TO THE SURVEYOR ARE NOT SHOWN.
- THIS SURVEY IS NOT TRANSFERABLE FOR USE TO ANY OTHER PERSONS, LEGAL INSTITUTIONS OR ENTITIES.
- THIS IS NOT A BOUNDARY SURVEY.

BOUNDARY & TOPOGRAPHIC SURVEY

LYING IN SECTION 35, TOWNSHIP 3 SOUTH,
 RANGE 16 EAST & SECTION 2, TOWNSHIP 4 SOUTH,
 RANGE 16 EAST, CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA

LEGAL DESCRIPTION:

PARCEL NO. 1 (PER D.B. 1048, PAGE 2676)
 LOT 8 OF BLOCK 4, LAKE HAVENS FARMS SUBDIVISION, UNIT "A", ACCORDING TO PLAT THEREOF RECORDED IN PLAT
 BOOK 1, PAGE 22, PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, EXCEPT THAT PORTION DEEDED TO THE
 STATE OF FLORIDA FOR ROAD RIGHT-OF-WAY PURSUANT TO COMPENSATION RECORDED IN DEED BOOK 78, PAGE
 275, PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, SAID LOTS BEING SEPARATE IN THE SW 1/4 OF THE SE
 1/4 OF SECTION 35, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

PARCEL NO. 2 (PER D.B. 1048, PAGE 2676)
 DEED AT THE NORTHWEST CORNER OF THE SW 1/4 OF NE 1/4 SECTION 2, TOWNSHIP 4 SOUTH, RANGE 16
 EAST, COLUMBIA COUNTY, FLORIDA AND THEN S 87°54'40"W ALONG THE NORTH LINE OF SAID SECTION 2, 852.00
 FEET, THENCE S 02°27'07"W ALONG THE EAST LINE OF SAID SECTION 2, 432.80 FEET TO THE EAST LINE OF SAID NW
 1/4 OF NE 1/4, THENCE N 02°27'07"W ALONG SAID EAST LINE, 481.01 FEET TO THE POINT OF BEGINNING,
 COLUMBIA COUNTY, FLORIDA.

PARCEL NO. 3 (PER D.B. 1242, PAGE 609)
 TOWNSHIP 3 SOUTH - 100' x 100' EAST
 SECTION 35, BEGINNING AT A POINT WHICH IS THE SE CORNER OF LOT 8 OF "LAKE HAVENS FARMS" AS PER PLAT
 THEREOF RECORDED IN PLAT BOOK 1, PAGE 22, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, SAID
 POINT BEING N 87°05'17"E 368.46' (L) TO THE SE CORNER OF THE SW 1/4 OF THE NE 1/4 OF SECTION
 35, TOWNSHIP 3 SOUTH, RANGE 16 EAST, THENCE N 73°07'17"E ALONG THE EAST BOUNDARY OF SAID LOT 8
 18.40 FEET, THENCE IN BEYOND SAID POINT, THENCE S 73°07'17"E PARALLEL TO THE EAST BOUNDARY OF
 SAID LOT 8 786.20 FEET TO THE SOUTH BOUNDARY OF LOT 10 OF SAID "LAKE HAVENS FARMS", THENCE N
 87°05'17"E ALONG THE SOUTH BOUNDARY OF LOTS 10 AND 9 OF SAID "LAKE HAVENS FARMS", 364.46 FEET TO
 THE POINT OF BEGINNING - COLUMBIA COUNTY, FLORIDA.

LESS AND EXCEPT THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1242, PAGE 648 OF THE PUBLIC RECORDS
 OF COLUMBIA COUNTY, FLORIDA.

PARCEL NO. 4 (PER D.B. 1084, PAGE 1700)
 LOT 4, INTERLACE CONDOMINES CENTRE SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT
 BOOK 5, PAGE 37 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

- LEGEND:**
- FOUND NAIL & DEEP
 - FOUND 1/2" REBAR & CAP
 - FOUND 4" x 4" CONCRETE MONUMENT
 - CALCULATED
 - PER LEGAL DESCRIPTION OF RECORD
 - MEASURED
 - PER PLAT
 - PER RECORD BOOK
 - BEAT OF HWY
 - BEAT
 - SWIFT
 - CONCRETE WITH PIPE
 - HIGH DENSITY POLYETHYLENE PIPE
 - POLYMER CHAINPIPE PIPE
 - REINFORCED CONCRETE PIPE
 - WOOD POLE
 - WOOD LIGHT POLE
 - CONCRETE LIGHT POLE
 - ELECTRIC HAWK POLE
 - ELECTRIC METER
 - ELECTRIC BOX
 - TELEPHONE pedestal
 - FIBRE TELEVISION RISER
 - COMMUNICATIONS BOX
 - CAMPER HOOD-UP (ELECTRIC & WATER)
 - PREPARE TANK
 - BOX
 - STORM MANHOLE
 - UNDERGROUND USE TANK MANHOLE
 - EXHAUST RESEV. MANHOLE
 - METEOROLOGICAL WELL
 - FIRE HYDRANT
 - IRRIGATION CONTROL VALVE
 - METEOROLOGICAL WELL
 - WATER SPOUT
 - WATER METER
 - WATER VALVE
 - MAIL BOX
 - SEWER OBT
 - TREE TYPE & DIAMETER
 - LABEL C&W
 - SIGNATURE
 - BEAT MARKER
 - SPOT ELEVATION
 - ASPHALT PAVEMENT
 - CONCRETE SURFACE
 - PAVED SURFACE
 - PLASTIC DETECTABLE SURFACE
 - SANITARY SEWER PIPE
 - STORM SEWER PIPE
 - FENCE BARS (PER PAINTED MARKINGS)
 - BURIED GAS LINE (PER PAINTED MARKINGS)
 - BURIED WATER LINE (PER PAINTED MARKINGS)
 - FENCE LINE
 - EXISTING OVERGROUND UTILITY LINE
 - CONTOUR LINE
 - WETLAND FLAG LOCATION & NUMBER

WETLAND LINE DATA

LINE	TYPE	DATE	DESCRIPTION
1	W1	12/15/11	WETLAND LINE
2	W2	12/15/11	WETLAND LINE
3	W3	12/15/11	WETLAND LINE
4	W4	12/15/11	WETLAND LINE
5	W5	12/15/11	WETLAND LINE
6	W6	12/15/11	WETLAND LINE
7	W7	12/15/11	WETLAND LINE
8	W8	12/15/11	WETLAND LINE
9	W9	12/15/11	WETLAND LINE
10	W10	12/15/11	WETLAND LINE
11	W11	12/15/11	WETLAND LINE
12	W12	12/15/11	WETLAND LINE
13	W13	12/15/11	WETLAND LINE
14	W14	12/15/11	WETLAND LINE
15	W15	12/15/11	WETLAND LINE
16	W16	12/15/11	WETLAND LINE
17	W17	12/15/11	WETLAND LINE
18	W18	12/15/11	WETLAND LINE
19	W19	12/15/11	WETLAND LINE
20	W20	12/15/11	WETLAND LINE
21	W21	12/15/11	WETLAND LINE
22	W22	12/15/11	WETLAND LINE
23	W23	12/15/11	WETLAND LINE
24	W24	12/15/11	WETLAND LINE
25	W25	12/15/11	WETLAND LINE
26	W26	12/15/11	WETLAND LINE
27	W27	12/15/11	WETLAND LINE
28	W28	12/15/11	WETLAND LINE
29	W29	12/15/11	WETLAND LINE
30	W30	12/15/11	WETLAND LINE

FLOOD NOTE:
 THE SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "X" (AS SHOWN ON THE FLOOD INSURANCE RATE MAP NUMBER 1202202010 FOR COLUMBIA COUNTY, FLORIDA AND INCORPORATED AREAS, EFFECTIVE DATE FEBRUARY 4, 2006, FOR CITY OF LAKE CITY, COLUMBIA COUNTY) NUMBER (CONCRETE WALLER DITCH) SUFFIX C.

SURVEYOR NOTES:

1. BEARING SHOWN HEREON ARE STATE PLANE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM 1980 (GRID 13A) FLORIDA NORTH FROM THE FLORIDA POSITIVE REFERENCE NETWORK (TRIM). ALL ELEVATIONS SHOWN HEREON ARE BASED ON A POLYMER CHAINPIPE MONUMENT WITH DEEP (20x20) BARS AT THE SOUTHWEST CORNER OF WILLIAMS ROAD AT THE INTERSECTION OF S.W. REAL TERRACE & U.S. HIGHWAY 90. (MANSION) ALL ELEVATIONS SHOWN HEREON SHOULD BE CHECKED AND NOTED BEFORE USE.
2. NO UNDERGROUND INSTALLATION OF UTILITIES OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.
3. THE SURVEYOR HAS NO KNOWLEDGE OF UNDERGROUND FOUNDATIONS WHICH MAY INTERFERE.
4. RECORDED EASEMENT AND/OR DEEDS NOT FURNISHED TO THE SURVEYOR WAS NOT SHOWN.
5. TREES 10" INCHES IN DIAMETER AND LARGER FOR HARD WOODS AND 12" IN DIAMETER AND LARGER FOR PINES ON THE SUBJECT PARCEL ARE SHOWN HEREON (PLANTED AND/OR ORNAMENTAL TREES HAVE NOT BEEN LOCATED, MEASUREMENTS WERE TAKEN AT CHEST HEIGHT).
6. SOME UTILITIES HAVE NOT BEEN LOCATED DUE TO PHYSICAL OBSTRUCTIONS AT THE TIME OF THIS SURVEY. ALL CASPETS SHOULD HAVE A BENCH CLEARANCE, WATER HOODS, AND ELECTRIC BOX.
7. WETLAND DELINEATION LINES SHOWN HEREON WERE FLAGGED BY DR. EMERSON, BROWN, LLC.

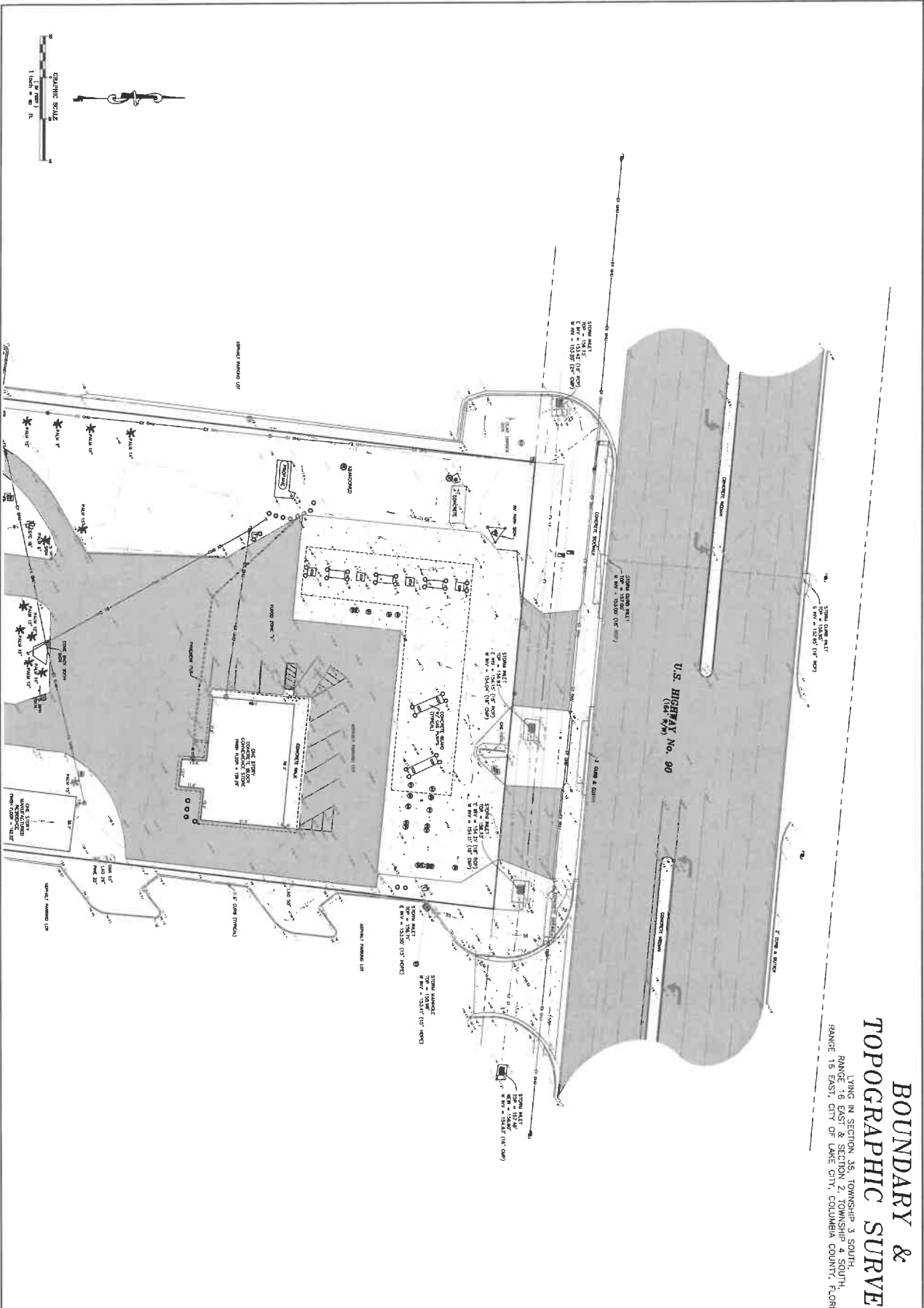
THIS IS PART OF A 9 SHEET SURVEY - NOT VALID WITHOUT ALL SHEETS

LEGH ANN FLOWERS
 FLOWERS SURVEYING AND MAPPING INC.
 207 SE CONDOR GLEN
 HIGH SPRINGS, FLORIDA 32643
 PHONE: (386) 454-8147
 EMAIL: FLOWERSSURVEYINGGMAIL.COM



CERTIFIED TO:
 FIELD BOOK - SEE FOLDER
 DRAFTED LAF
 CHECKED LAF
 SURVEY DATE: 8/7/17

JOB NUMBER: 17-096
 SHEET 1 OF 9



**BOUNDARY &
TOPOGRAPHIC SURVEY**

LYING IN SECTION 36, TOWNSHIP 3 SOUTH,
RANGE 16 EAST & SECTION 2, TOWNSHIP 4 SOUTH,
RANGE 18 EAST, CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA

****SEE SHEET 1 FOR SURVEYOR'S CERTIFICATION, LEGAL DESCRIPTIONS, LEGEND, & NOTES****
THIS IS PART OF AN 8 SHEET SURVEY - NOT VALID WITHOUT BOTH SHEETS

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL INKED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO THIS MAP BY ANYONE OTHER THAN THE SURVEYOR IS PROHIBITED.
I HEREBY CERTIFY THAT THE SURVEY DATA SHOWN HEREON IS A TRUE AND CORRECT REPRESENTATION OF A PERSONALY OBTAINED SURVEY OF THE HEREIN DESCRIBED PROPERTY, AND IT MEETS THE HIGHEST TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYING. PERMISSION TO REPRODUCE EXACTLY FLORIDA STATUTES AND CHAPTERS 83-17, FLORIDA ADMINISTRATIVE CODE.

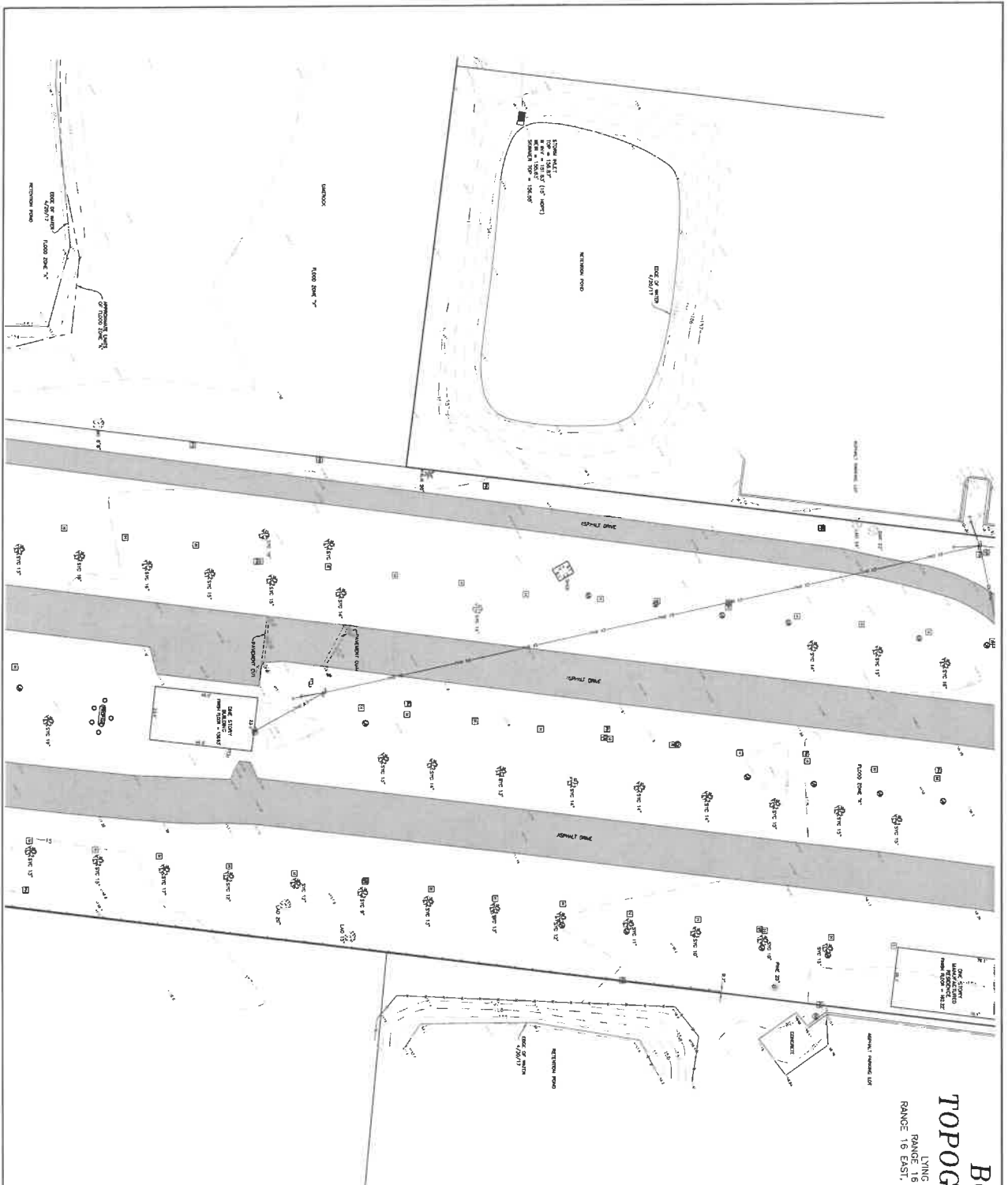
LEIGH ANN FLOWERS
PROFESSIONAL SURVEYOR & MAPPER
FLA. LICENSE NO. 8902



FLOWERS SURVEYING AND MAPPING, INC.
207 SE CONDOR GLEN
HIGH SPRINGS, FLORIDA 32643
PHONE: (386) 454-8147
EMAIL: FLOWERSSURVEYING@GMAIL.COM

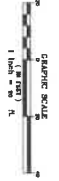
CERTIFIED TO:	FIELD BOOK - SET FOLDER
	DRAFTED LAF
	CHECKED LAF
	SURVEY DATE: 06/07/17

JOB NUMBER: 17-066
SHEET
2 OF 8



**BOUNDARY &
TOPOGRAPHIC SURVEY**

LIVING IN SECTION 35, TOWNSHIP 3 SOUTH,
RANGE 18 EAST & SECTION 2, TOWNSHIP 3 SOUTH,
RANGE 18 EAST, CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA



SEE SHEET 1 FOR SURVEYOR'S CERTIFICATION, LEGAL DESCRIPTIONS, LEGEND, & NOTES
THIS IS PART OF AN 8 SHEET SURVEY - NOT VALID WITHOUT BOTH SHEETS

NOT VALID WITHOUT THE INSTRUMENT AND THE ORIGINAL UNRECORDED COPY OF A FLORIDA LICENSED SURVEYOR AND MAPPER, ACCORDING TO OPTIONS TO THE MAP BY EITHER PARTY FROM THE SIGNATURE IS PROHIBITED.
I HEREBY CERTIFY THAT THE SURVEY DATA, BEING HEREBY, IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY PERFORMED UNDER MY SUPERVISION OF THE ABOVE DESCRIBED PROPERTY, AND I MEET THE MINIMUM TECHNICAL REQUIREMENTS AS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS, PURSUANT TO SECTION 463.02, FLORIDA STATUTES, AND CHAPTER 61-17, FLORIDA ADMINISTRATIVE CODE.

LEIGH ANN FLOWERS
PROFESSIONAL SURVEYOR & MAPPER
FLA. LICENSE NO. 8932



FLOWERS SURVEYING AND MAPPING INC.
207 SE CONDOR GLEN
HIGH SPRINGS, FLORIDA 32643
PHONE: (386) 454-8147
EMAIL: FLOWERSSURVEYING@GMAIL.COM

CERTIFIED TO: _____

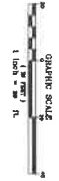
FIELD BOOK - SEE FOLDER
DRAWN LAY
CHECKED LAY
SURVEY DATE: 06/07/17

JOB NUMBER: 17-006
SHEET
3 OF 8



BOUNDARY & TOPOGRAPHIC SURVEY

LYING IN SECTION 35, TOWNSHIP 3, SOUTH,
RANGE 16 EAST & SECTION 2, TOWNSHIP 4 SOUTH,
RANGE 16 EAST, CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA



****SEE SHEET 1 FOR SURVEYOR'S CERTIFICATION, LEGAL DESCRIPTIONS, LEGEND, & NOTES****
THIS IS PART OF AN 8 SHEET SURVEY - NOT VALID WITHOUT BOTH SHEETS

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL BOUNDARY SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO THIS MAP BY ANYONE OTHER THAN THE SURVEYOR IS PROHIBITED.

I HEREBY CERTIFY THAT THE SURVEY WAS MADE PERSONALLY OR BY A TRUSTED AND LICENSED REPRESENTATIVE OF A SURVEY FIRM REGISTERED UNDER MY SUPERVISION AND THAT THE SURVEY WAS MADE IN ACCORDANCE WITH THE FLORIDA BOARD OF LAND SURVEYORS, IN ACCORDANCE TO SECTION 472.04, FLORIDA STATUTES, AND CHAPTER 61-17, FLORIDA ADMINISTRATIVE CODE.

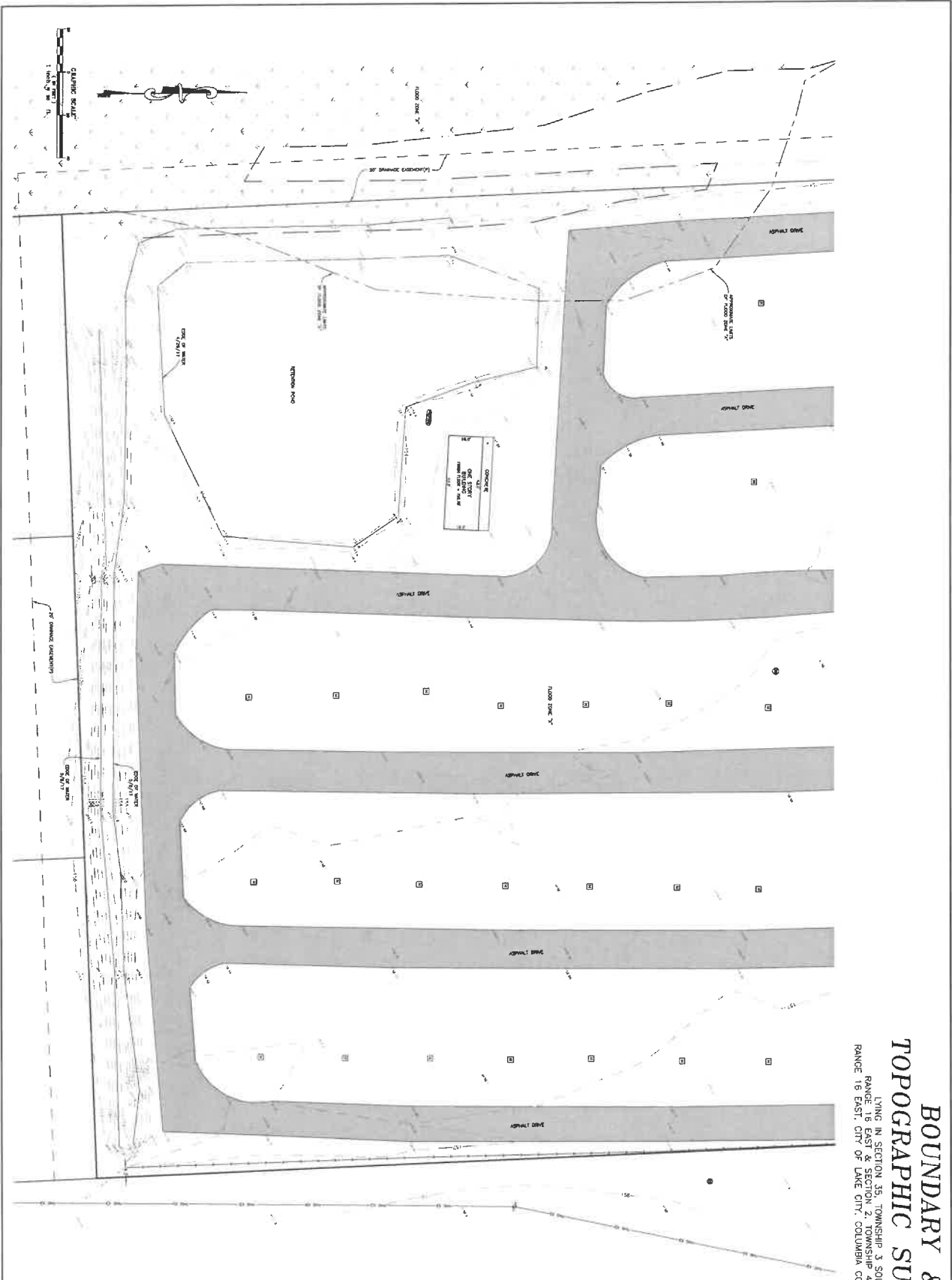
LEIGH ANN FLOWERS
PROFESSIONAL SURVEYOR & MAPPER
FLA. LICENSE NO. 8022



FLOWERS SURVEYING AND MAPPING, INC.
207 SE CONDOR GLEN
HIGH SPRINGS, FLORIDA 32643
PHONE: (386) 454-8147
EMAIL: FLOWERSSURVEYING@GMAIL.COM

CERTIFIED TO:	FIELD BOOK - SEE FOLDER
	DRAWN LAF
	CHECKED LAF
	SURVEY DATE: 06/07/17

JOB NUMBER: 17-068
SHEET
4 OF 8



**BOUNDARY &
TOPOGRAPHIC SURVEY**

Lying in SECTION 35, TOWNSHIP 3 SOUTH,
RANGE 16 EAST & SECTION 2, TOWNSHIP 4 SOUTH,
RANGE 16 EAST, CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA

SEE SHEET 1 FOR SURVEYOR'S CERTIFICATION, LEGAL DESCRIPTIONS, LEGEND, & NOTES
THIS IS PART OF AN 8 SHEET SURVEY - NOT VALID WITHOUT BOTH SHEETS

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SURVEY FILE OF A FLORIDA LICENSED SURVEYOR AND A REGISTERED PROFESSIONAL MAPPING ENGINEER TO THIS MAP BY ANYONE OTHER THAN THE SURVEYOR OR MAPPING ENGINEER.
I HEREBY CERTIFY THAT THE SURVEY AND MAPPING WERE CONDUCTED AS A SURVEY AND MAPPING ENGINEER UNDER THE SUPERVISION OF A SURVEYOR LICENSED UNDER THE JURISDICTION OF THE FLORIDA BOARD OF SURVEYING AND MAPPING, AND I ACCEPT THE APPLICABLE TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF SURVEYING AND MAPPING, FLORIDA STATUTES, AND CHAPTER 62-17, FLORIDA ADMINISTRATIVE CODE.

LEIGH ANN FLOWERS
PROFESSIONAL SURVEYOR & MAPPING ENGINEER
FLA. LICENSE NO. 8922

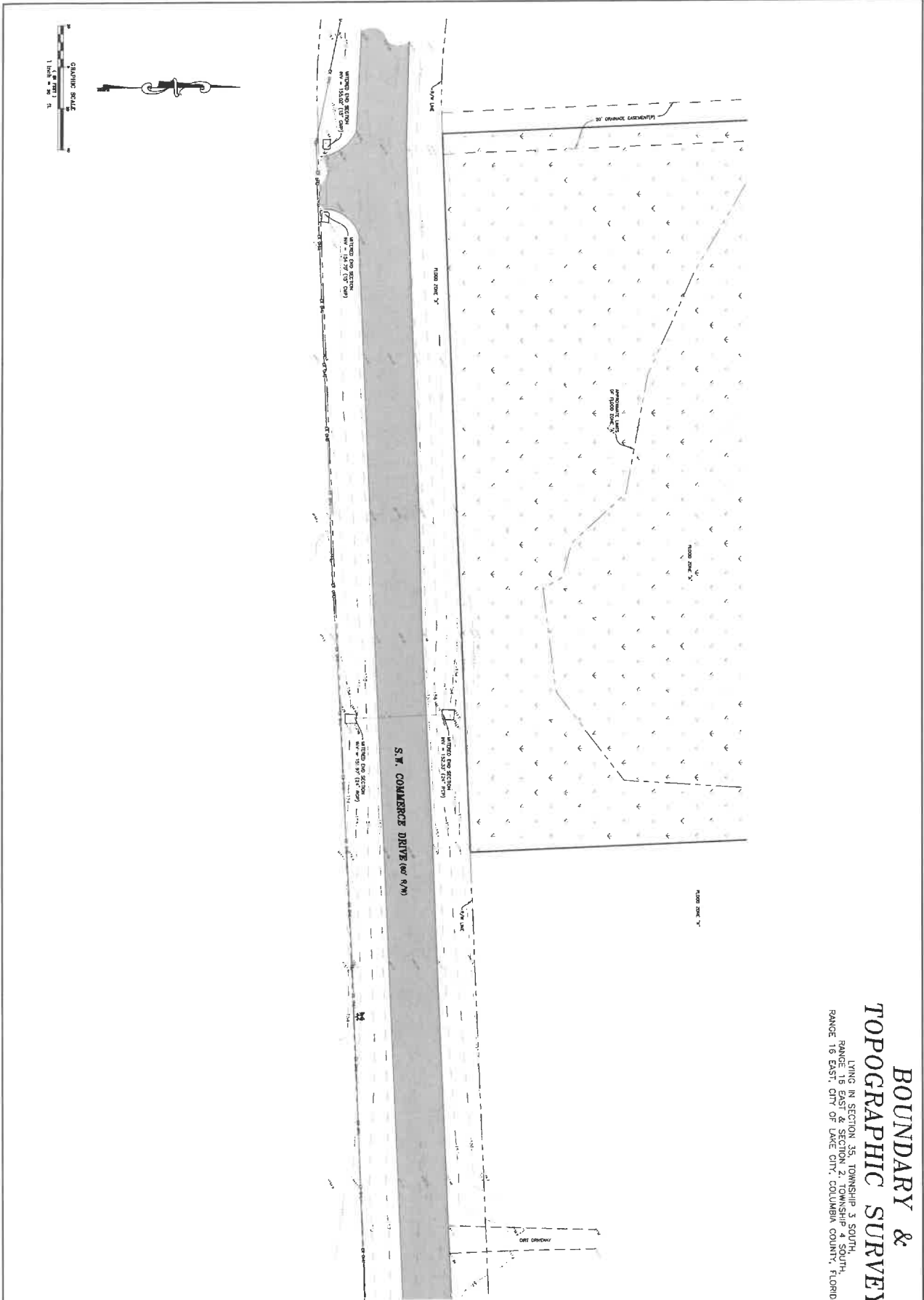


FLOWERS SURVEYING AND MAPPING INC.
207 SE CONDOR GLEN
HIGH SPRINGS, FLORIDA 32643
PHONE: (386) 454-8147
EMAIL: FLOWERSSURVEYING@GMAIL.COM

CERTIFIED TO:

FIELD BOOK - SEE FOLDER
DRAWN LAF
CHECKED LAF
SURVEY DATE 06/07/17

JOB NUMBER 17-006
SHEET
5 OF 8



**BOUNDARY &
TOPOGRAPHIC SURVEY**

LIVING IN SECTION 35, TOWNSHIP 3 SOUTH, R.
RANGE 18 EAST, CITY OF LANE CITY, COLUMBIA COUNTY, FLORIDA

SEE SHEET 1 FOR SURVEYOR'S CERTIFICATION, LEGAL DESCRIPTIONS, LEGEND, & NOTES
THIS IS PART OF AN 8 SHEET SURVEY - NOT VALID WITHOUT BOTH SHEETS

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL PAPER SEAL OF A FLORIDA LICENSED SURVEYOR AND APPROVED COPIES OF CERTIFICATIONS TO THIS MAP BY ANYONE OTHER THAN THIS SURVEYOR IS PROHIBITED.
I HEREBY CERTIFY THAT THIS SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE FLORIDA SURVEYING AND MAPPING ACT AND THE FLORIDA PROFESSIONAL SURVEYOR AND MAPPING ACT AND THE FLORIDA BOARD OF LAND SURVEYORS, PURSUANT TO SECTION 463.08, FLORIDA STATUTES, AND CHAPTER 6A-17, FLORIDA ADMINISTRATIVE CODE.

LEIGH ANN FLOWERS
PROFESSIONAL SURVEYOR & MAPPER
FLA. LICENSE NO. 8882

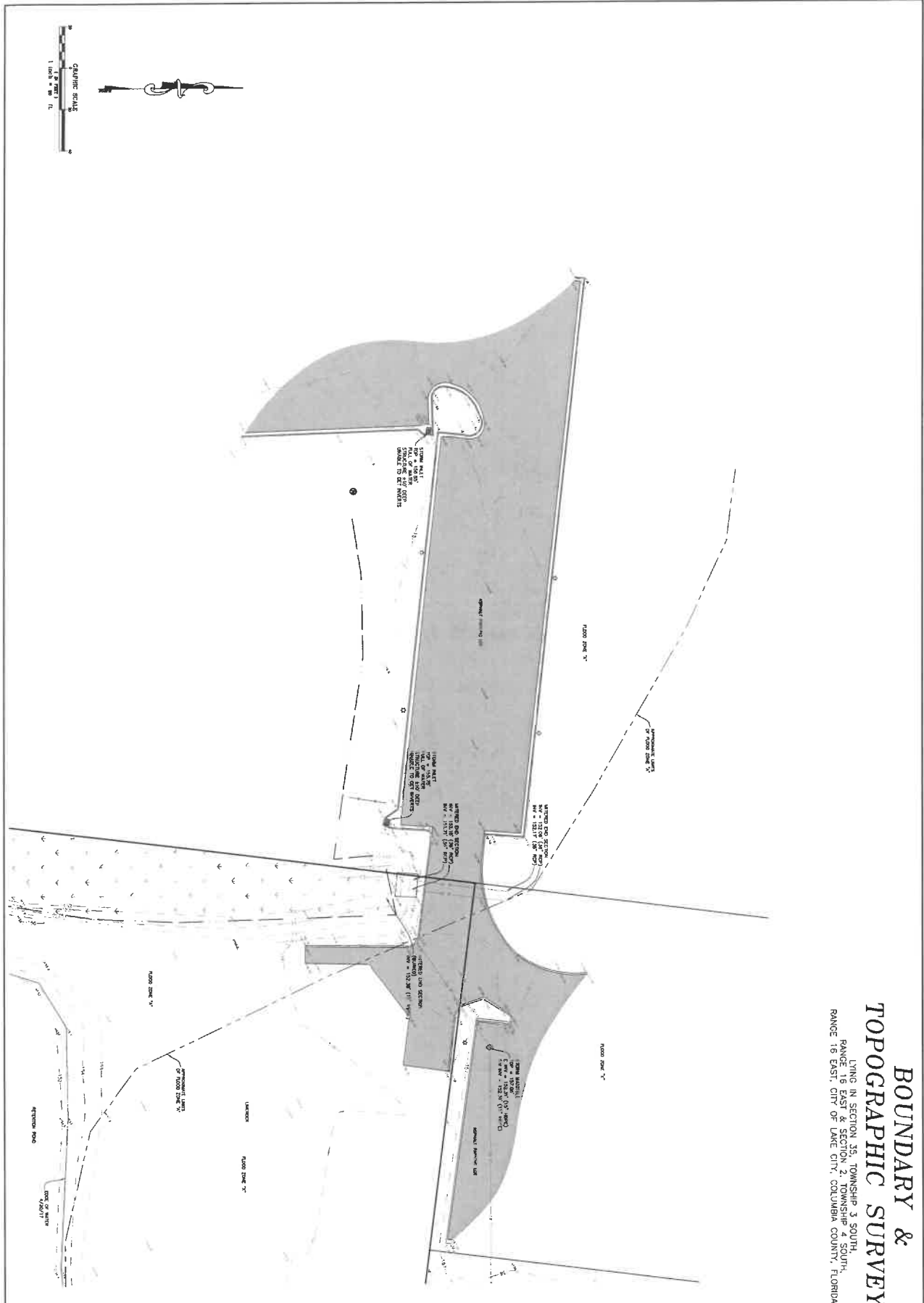


FLOWERS SURVEYING AND MAPPING, INC.
207 SE CONDOR GLEN
HIGH SPRINGS, FLORIDA 32643
PHONE: (386) 454-8147
EMAIL: FLOWERSSURVEYING@GMAIL.COM

CERTIFIED TO:

FIELD BOOK - SEE FOLDER
REVISED LAY
CHECKED LAY
SURVEY DATE: 08/27/11

JOB NUMBER: 11-08
SHEET
6 OF 8



**BOUNDARY &
TOPOGRAPHIC SURVEY**

LIVING IN SECTION 35, TOWNSHIP 3 SOUTH,
RANGE 16 EAST & SECTION 2, TOWNSHIP 4 SOUTH,
RANGE 16 EAST, CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA

SEE SHEET 1 FOR SURVEYOR'S CERTIFICATION, LEGAL DESCRIPTIONS, LEGEND, & NOTES
THIS IS PART OF AN 8 SHEET SURVEY - NOT VALID WITHOUT BOTH SHEETS

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEALED SEAL OF A FLORIDA LICENSED SURVEYOR AND METERS, ACCORDING TO SECTION 101.04, F.S. THIS SURVEY IS PROHIBITED TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE SURVEYOR. I HEREBY CERTIFY THAT THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE STANDARDS OF A SURVEY PROFESSIONAL UNDER THE SUPERVISION OF THE LICENSED SURVEYOR AND I ACCEPT THE NECESSARY TECHNICAL RESPONSIBILITY AS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYING PURSUANT TO SECTION 472.02, FLORIDA STATUTES, AND CHAPTER 63-17, FLORIDA ADMINISTRATIVE CODE.

LEIGH ANN FLOWERS
PROFESSIONAL SURVEYOR & MAPPER
FLA. LICENSE NO. 8992

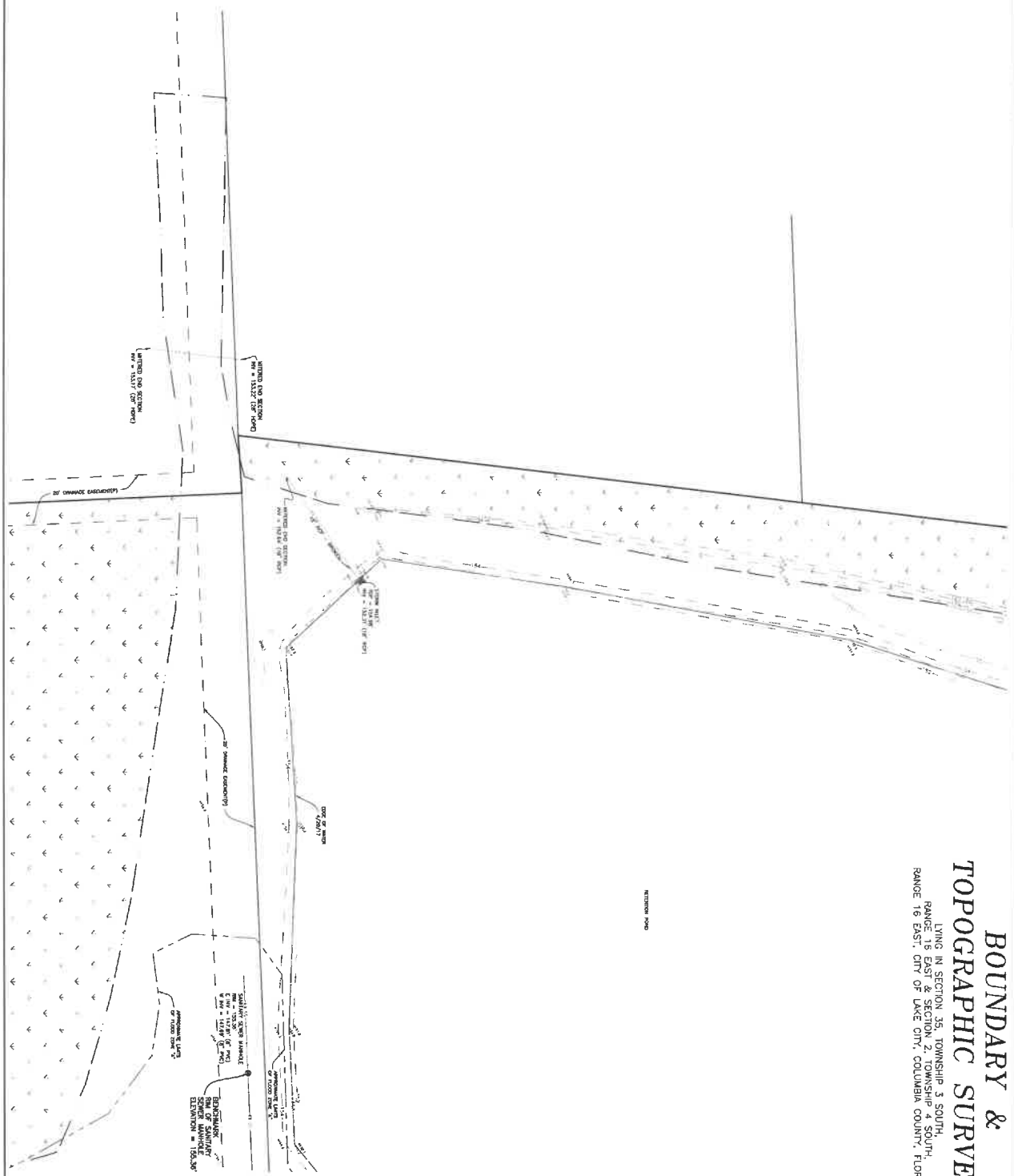


FLOWERS SURVEYING AND MAPPING INC.
207 SE CONDOR GLEN
HIGH SPRINGS, FLORIDA 32643
PHONE: (386) 454-8147
EMAIL: FLOWERSSURVEYING@GMAIL.COM

CERTIFIED BY

FIELD BOOK - SEE FOLDER
DRAWN LAF
CHECKED LAF
BANKY DATE: 06/07/17

JOB NUMBER 17-066
SHEET
7 OF 8



**BOUNDARY &
TOPOGRAPHIC SURVEY**

LYING IN SECTION 35, TOWNSHIP 3 SOUTH,
RANGE 16 EAST & SECTION 2, TOWNSHIP 4 SOUTH,
RANGE 16 EAST, CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA

SEE SHEET 1 FOR SURVEYOR'S CERTIFICATION, LEGAL DESCRIPTIONS, LEGEND, & NOTES
THIS IS PART OF AN 8 SHEET SURVEY - NOT VALID WITHOUT BOTH SHEETS

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL BRASS SEAL OF A FLORIDA LICENSED SURVEYOR AND WITHOUT A RECORD OF COLLECTION TO THIS MAP BY ANYONE OTHER THAN THE SURVEYOR IS PROHIBITED.

I HEREBY CERTIFY THAT THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE FLORIDA SURVEYING AND MAPPING ACT AND THAT THE SURVEYOR HAS REVIEWED THE ORIGINAL RECORDS AND THAT THE SURVEY IS ACCURATE AND COMPLETE AS SHOWN ON THIS MAP.

FLORIDA SURVEYING AND MAPPING ACT, CHAPTER 47, FLORIDA ADMINISTRATIVE CODE.

LEIGH ANN FLOWERS
PROFESSIONAL SURVEYOR & MAPPER
FLA. LICENSE NO. 9022

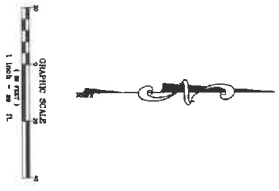
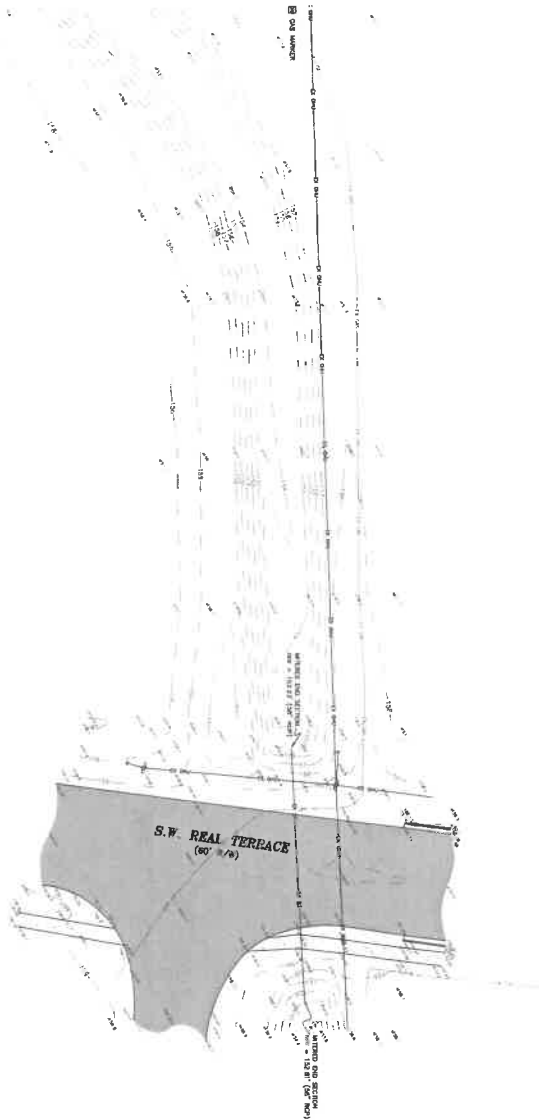


FLOWERS SURVEYING AND MAPPING INC.
207 SE CONCORD GLEN
HIGH SPRINGS, FLORIDA 32643
PHONE: (386) 454-8147
EMAIL: FLOWERSURVEYING@GMAIL.COM

CERTIFIED BY:	
DATE:	

FIELD BOOK - SEE FOLDER	
DRAWN: LAF	
CHECKED: LAF	
SURVEY DATE: 06/07/17	

JOB NUMBER 17-006
SHEET
8 OF 8



BOUNDARY & TOPOGRAPHIC SURVEY
 LYING IN SECTION 35, TOWNSHIP 3 SOUTH,
 RANGE 18 EAST & SECTION 2, TOWNSHIP 3 SOUTH,
 RANGE 18 EAST, CITY OF LAKE CITY, COLUMBIA COUNTY, FLORIDA

SEE SHEET 1 FOR SURVEYOR'S CERTIFICATION, LEGAL DESCRIPTIONS, LEGEND, & NOTES
 THIS IS PART OF A 9 SHEET SURVEY -- NOT VALID WITHOUT BOTH SHEETS

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL PAPER SEAL OF A FLORIDA LICENSED SURVEYOR AND APPROVAL OF LOCATION TO THIS MAP BY ANYONE OTHER THAN THE SURVEYOR IS PROHIBITED.

I HEREBY CERTIFY THAT THE SURVEY DATA SHOWN HEREON IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY PERFORMED UNDER MY SUPERVISION OF THE HEREIN DESCRIBED PROPERTY, AND IS ACCORDING TO THE SURVEYING TECHNIQUES AS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYING, PUBLISHED BY SECTION 42200, FLORIDA STATUTES, AND CHAPTER 62-17, FLORIDA ADMINISTRATIVE CODE.

LEIGH ANN FLOWERS
 PROFESSIONAL SURVEYOR & MAPPING
 P.L.A. LICENSE NO. 9002

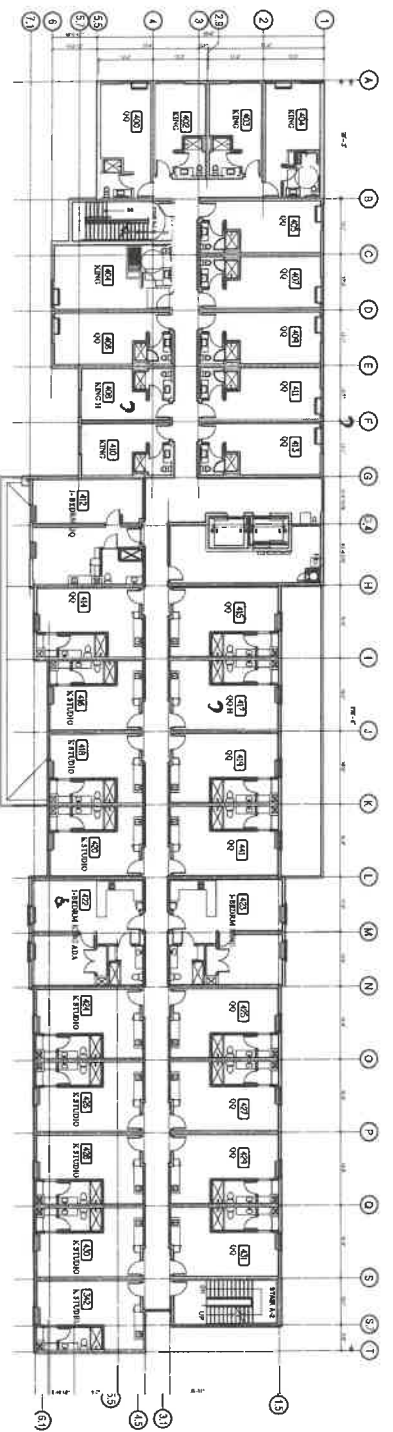


FLOWERS SURVEYING AND MAPPING INC.
 207 SE CONDOR GLEN
 HIGH SPRINGS, FLORIDA 32643
 PHONE: (386) 454-8147
 EMAIL: FLOWERSSURVEYING@GMAIL.COM

CERTIFIED BY

FIELD BOOK - SEE FOLDER
DRAWN LAF
CHECKED LAF
SURVEY DATE: 06/07/17

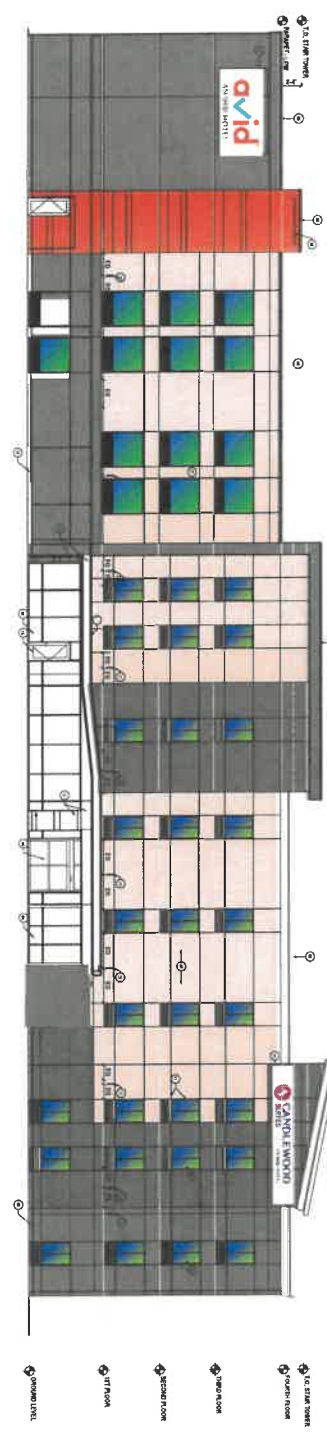
JOB NUMBER: 17-066
SHEET 9 OF 9



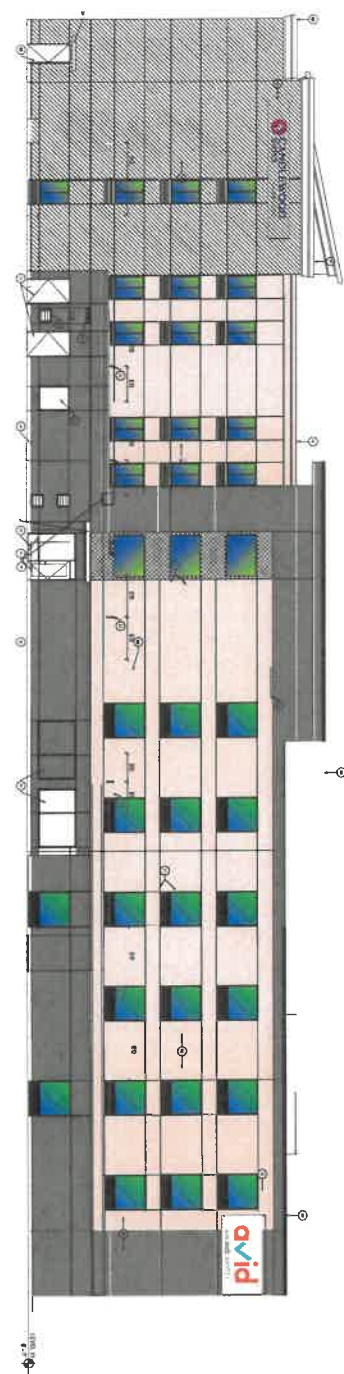
FORTH FLOOR PLAN

ROOM MATRIX												
	1	2	3	4	5	6	7	8	9	10	11	TOTAL
1 BED QQ												
1 BED QH												
1 BED KING												
1 BED KING ADA												
1 BED KING ADA H												
1 BED KING H												
KSTUDIO												
KING ADA												
KING ADA H												
KING H												
QQ												
QH												
HEARING												
ADA												

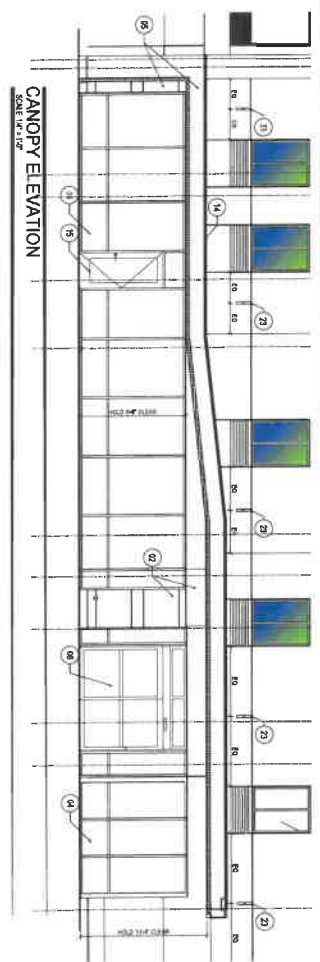




SOUTH ELEVATION
SCALE 1/8" = 1'-0"












NORTH ELEVATION
SCALE 1/8" = 1'-0"



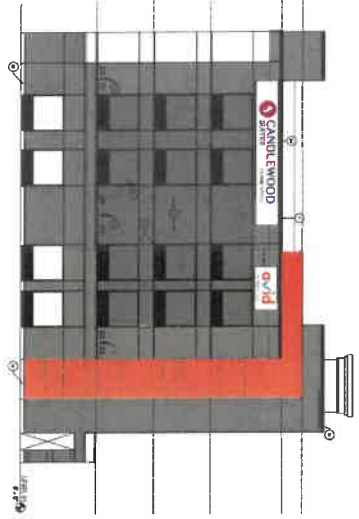
CANOPY ELEVATION
SCALE 1/4" = 1'-0"

MATERIAL LEGEND

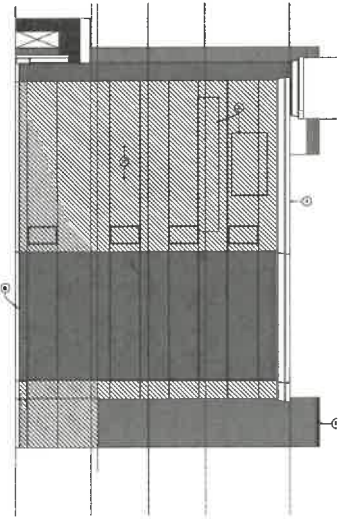
	STYRENE GLAZING SYSTEM - 02
	STYRENE GLAZING SYSTEM - 04
	STYRENE GLAZING SYSTEM - 01
	STYRENE GLAZING SYSTEM - 03
	STYRENE GLAZING SYSTEM - 05
	STYRENE GLAZING SYSTEM - 06
	STYRENE GLAZING SYSTEM - 07
	STYRENE GLAZING SYSTEM - 08
	STYRENE GLAZING SYSTEM - 09



WEST ELEVATION
N1



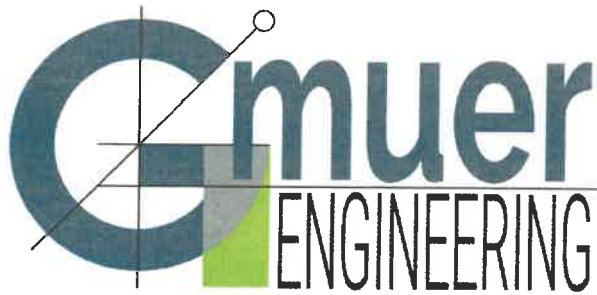
EAST ELEVATION
SCALE: 1/8" = 1'-0"
01



MATERIAL LEGEND

[White Box]	EXTERIOR CLADDING SYSTEM #1
[Dark Grey Box]	EXTERIOR CLADDING SYSTEM #2
[Hatched Box]	EXTERIOR CLADDING SYSTEM #3
[Dark Grey Box]	EXTERIOR CLADDING SYSTEM #4
[Dark Grey Box]	EXTERIOR CLADDING SYSTEM #5
[Dark Grey Box]	EXTERIOR CLADDING SYSTEM #6
[Dark Grey Box]	EXTERIOR CLADDING SYSTEM #7
[Dark Grey Box]	EXTERIOR CLADDING SYSTEM #8





April 23, 2024

Suwannee River Water Management District

Re: Lake City Hotels Phase 2

This permit modification is submitted for the construction of an additional hotel within the drainage area of the master stormwater management system as permitted under SRWMD ERP 209165-3.

The original master plan was permitted under SRWMD ERP 209165-3 where the proposed wet stormwater facility was designed to provide water quality treatment and stormwater discharge attenuation for a master site plan that included runoff from two existing hotels, an existing restaurant, three new hotels, and two new restaurants, with associated driveway connections and parking. Under this master permit, the following quantities of impervious area were designed to be routed through the proposed wet stormwater management facility.

Permitted Impervious Areas under SRWMD ERP 209165-3

Impervious (Existing) *	182,297 sf	4.1850 ac
Impervious (Proposed)	335,589 sf	7.7041 ac
<u>Impervious (Future)</u>	<u>23,881 sf</u>	<u>0.5482 ac</u>
Total Permitted Impv.	541,767 sf	12.4373 ac

* Existing Impervious Area consisted of the Quality Inn, Ruby Tuesdays, and Holiday Inn to the west of the site

Construction began on this permitted master system which included the complete wet stormwater management facility as designed and permitted, the complete master storm piping system that serves this master system. However, the scope of the proposed impervious area was reduced to those site improvements needed to serve the first hotel, Hotel A. This included the driveway connections to the western existing impervious areas, reconstructed driveway to US90, and the surface parking needed for Hotel A. This scope was referenced as Phase 1 in the associated plans and in the remainder of this report. An as-built has been submitted for this change. The resulting impervious area accounting following the Phase 1 construction into the master stormwater system are as follows.

Impervious Areas Accounting with Phase 1 As-Built

Impervious (Existing) *	182,297 sf	4.1850 ac
Impervious (Phase 1)	107,983 sf	2.4789 ac
<u>Impervious (Future)</u>	<u>251,487 sf</u>	<u>5.7733 ac</u>
Total Permitted Impv.	541,767 sf	12.4373 ac



SUWANNEE RIVER WATER MANAGEMENT DISTRICT

9225 CR 49 • LIVE OAK, FLORIDA 32060 • TELEPHONE 386/362-1001 • 800/226-1066 • FAX 386/362-1056
mysuwanneeriver.com

January 4, 2018

Mahendra Patel
AURUM, L.L.C.
162 NW Birdie Lane
Lake City, FL 32056-0575

SUBJECT: Permit Number ERP-023-209165-3
Lake City Hotels

Dear Mahendra Patel:

Enclosed is your individual permit issued by the Suwannee River Water Management District on January 04, 2018. This permit is a legal document and should be kept with your other important documents. Permit issuance does not relieve you from the responsibility of obtaining any necessary permits from any federal, state, or local agencies for your project.

Noticing Your Permit:

For noticing instructions, please refer to the noticing materials in this package regarding closing the point of entry for someone to challenge the issuance of your permit. Please note that if a timely petition for administrative hearing is filed, your permit will become non-final and any activities that you choose to undertake pursuant to your permit will be at your own risk.

Compliance with Permit Conditions:

To submit your required permit compliance information, go to the District's website at <https://permitting.sjrwmd.com/srepermitting/jsp/start.jsp>. Click to sign-in to your existing account or to create a new account. Select the "Apply/Submit" tab, select "Submit Compliance Data", enter your permit number, and select "No Specific Date" for the Compliance Due Date Range. You will then be able to view all the compliance submittal requirements for your project. Select "the compliance item that you are ready to submit and then attach the appropriate information or form. The forms to comply with your permit conditions are available at floridaswater.com/permitting under the section "Handbooks, forms, fees, final orders". Click on forms to view all permit compliance forms, then scroll to the ERP application forms section and select the applicable compliance forms. Alternatively, if you have difficulty finding forms or need copies of the appropriate forms, please contact the Resource Management Division at (386) 362-1001.

Transferring Your Permit:

Your permit requires you to notify the District in writing within 30 days of any change in ownership or control of the project or activity covered by the permit, or within 30 days of any change in ownership or control of the real property on which the permitted project or activity is located or occurs. You will need to provide the District with the information specified in rule 62-330.340, Florida Administrative Code (F.A.C.). Generally, this will require you to complete and submit Form 62-330.340(1), "Request to Transfer Permit".

Please note that a permittee is liable for compliance with the permit before the permit is transferred. The District, therefore, recommends that you request a permit transfer in advance in

DON QUINCEY Chair
Chiefland, Florida

ALPHONAS ALEXANDER Vice Chair
Madison, Florida

VIRGINIA H. JOHNS Secretary/Treasurer
Alachua, Florida

KEVIN BROWN
Alachua, Florida

GARY F. JONES
Old Town, Florida

CHARLES KEITH
Lake City, Florida

VIRGINIA M. SANCHEZ
Old Town, Florida

RICHARD SCHWAB
Perry, Florida

BRADLEY WILLIAMS
Monticello, Florida

HUGH THOMAS
Executive Director

accordance with the applicable rules. You are encouraged to contact District staff for assistance with this process.

Thank you and please let us know if you have additional questions. For general questions contact us at (386) 362-1001.

Sincerely,



Hugh Thomas
Executive Director

Enclosures: Permit

cc: District Permit File



SUWANNEE RIVER WATER MANAGEMENT DISTRICT

9225 CR 49 • LIVE OAK, FLORIDA 32060 • TELEPHONE 386/362-1001 • 800/226-1066 • FAX 386/362-1056
mysuwanneeriver.com

ERP Individual Permit

PERMITTEE:

Mahendra Patel
AURUM, L.L.C.
162 NW Birdie Lane
Lake City, FL 32056-0575

PERMIT NUMBER: ERP-023-209165-3

DATE ISSUED: January 04, 2018

DATE EXPIRES: January 04, 2023

COUNTY: Columbia

TRS: S35 T3S R16E, S2 T4S R16E

PROJECT: Lake City Hotels

Upon completion, the approved entity to which operation and maintenance maybe transferred pursuant to rule 62-330.310 and 62-330.340 or 40B-4.1130, Florida Administrative Code (F.A.C) shall be:

Mahendra Patel
AURUM, L.L.C.
162 NW Birdie Lane
Lake City, FL 32056-0575

Based on the information provided to the Suwannee River Water Management District (District), the above mentioned project has met the conditions of issuance as found in subsection 62-330.301, subsections 62-330.407 through 62-330.635, or subsection 40B-4.3030, F.A.C. The permit is hereby in effect for the activity description below:

Previous permit was for the construction and operation of a surface water management system serving 6.10 acres of impervious surface on a total project area of 10.10 acres. This modification consists of relocating the master stormwater facility and the addition of 8.25 acres of impervious on a total project area of 17.61 acres. When constructed the project shall be in accordance with the application package submitted by Mahendra Patel, of Aurum, LLC., as an authorized agent for the Columbia County Board of County Commissioners, and the signed and sealed plans certified on October 31, 2017, by Christopher Gmuer, P.E., of Gmuer Engineering, LLC.

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

You and any other substantially affected persons are entitled to request an administrative hearing or mediation. Please refer to the enclosed notice of rights.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.
2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the District staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5, F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the District a fully executed Form 62-330.350(1), "Construction Commencement Notice," [10-1-13], incorporated by reference herein (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02505>), indicating the expected start and completion dates. A copy of this form may be obtained from the District, as described in subsection 62-330.010(5), F.A.C. If available, an District website that fulfills this notification requirement may be used in lieu of the form.
5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 1. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex — "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
 2. For all other activities — "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].

3. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
7. If the final operation and maintenance entity is a third party:
 1. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
 2. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.
8. The permittee shall notify the District in writing of changes required by any other regulatory District that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
9. This permit does not:
 1. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 2. Convey to the permittee or create in the permittee any interest in real property;
 3. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 4. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
11. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
12. The permittee shall notify the District in writing:
 1. Immediately if any previously submitted information is discovered to be inaccurate; and
 2. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C.

This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, District staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.
17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the District will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

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

AUTHORIZED BY: Suwannee River Water Management District

By:



Hugh Thomas
Executive Director



NOTICE OF RIGHTS

1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the Suwannee River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Section 120.569 and 120.573, Florida Statutes, (F.S.), before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections 120.569 and 120.57 F.S. Pursuant to Rule 28-106.111, Florida Administrative Code, (F.A.C.), the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, F.A.C.
2. If the Governing Board takes action which substantially differs from the notice of District decision to grant or deny the permit application, a person whose substantial interests are or may be determined has the right to request an administrative hearing or may choose to pursue mediation as an alternative remedy as described above. Pursuant to Rule 28-106.111, F.A.C., the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). Such a petition must comply with Chapter 28-106, F.A.C.
3. A substantially interested person has the right to a formal administrative hearing pursuant to Section 120.569 and 120.57(1), F.S., where there is a dispute between the District and the party regarding an issue of material fact. A petition for formal hearing must comply with the requirements set forth in Rule 28-106.201, F.A.C.
4. A substantially interested person has the right to an informal hearing pursuant to Section 120.569 and 120.57(2), F.S., where no material facts are in dispute. A petition for an informal hearing must comply with the requirements set forth in Rule 28-106.301, F.A.C.
5. A petition for an administrative hearing is deemed filed upon receipt of the petition by the Office of the District Clerk at the District Headquarters in Live Oak, Florida.
6. Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing pursuant to Rule 28-106.111, F.A.C.
7. The right to an administrative hearing and the relevant procedures to be followed is governed by Chapter 120, Florida Statutes, and Chapter 28-106, F.A.C.
8. Pursuant to Section 120.68, F.S., a person who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to the Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.
9. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, F. S., may seek review of the order pursuant to Section 373.114, F.S., by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy of the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.
10. For appeals to the District Courts of Appeal, a District action is considered rendered after it is signed on behalf of the District, and is filed by the District Clerk.

11. Failure to observe the relevant time frames for filing a petition for judicial review, or for Commission review, will result in waiver of the right to review.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing Notice of Rights has been sent to:

Mahendra Patel
AURUM, L.L.C.
162 NW Birdie Lane
Lake City, FL 32056-0575
(386) 752-2209

This January 04, 2018



Deputy Clerk
Suwannee River Water Management District
9225 C.R. 49
Live Oak, Florida 32060
386.362.1001 or 800.226.1066 (Florida only)

cc: File Number: ERP-023-209165-3

NOTICING INFORMATION

Dear Permittee:

Please be advised that the Suwannee River Water Management District (District) has not published a notice in the newspaper advising the public that it has issued a permit for this project.

Newspaper publication, using the District's form, notifies members of the public of their right to challenge the issuance of the permit. If proper notice is given by newspaper publication, then there is a 21-day time limit to file a petition challenging the issuance of the permit.

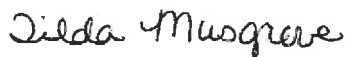
To close the point of entry for filing a petition, you may publish (at your own expense) a onetime notice of the District's decision in a newspaper of general circulation within the affected area as defined in Section 50.011 of the Florida Statutes. If you do not publish a newspaper notice, the time to challenge the issuance of your permit will not expire.

A copy of the notice and a partial list of newspapers of general circulation are attached for your convenience. However, you are not limited to those listed newspapers. If you choose to close the point of entry and the notice is published, the newspaper will return to you an affidavit as proof of publication. In accordance with 40B-1.1010(4), F.A.C., a copy of the affidavit shall be provided to the District within 14 days of publication. A scanned copy of the affidavit may be forwarded to Tilda Musgrove by email at tjm@srwmd.org (preferred method) or send the original affidavit of publication to:

Tilda Musgrove
Resource Management
9225 CR 49
Live Oak, FL 32060

If you have any questions, please contact me at 386.362.1001.

Sincerely,



Tilda Musgrove
Business Resource Specialist
Resource Management

NOTICE OF AGENCY ACTION TAKEN BY THE
SUWANNEE RIVER WATER MANAGEMENT DISTRICT

Notice is given that the following permit was issued on _____:
(Name and address of applicant) _____
permit# _____. The project is located in _____ County, Section
_____, Township _____ South, Range _____ East. The permit authorizes a surface
water management system on _____ acres for _____ known as
_____. The receiving water body is _____.

A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the Suwannee River Water Management District (District). Pursuant to Chapter 28-106 and Rule 40BB-1.1010, Florida Administrative Code (F.A.C.), the petition must be filed (received) either by delivery at the office of the Resource Management Business Resource Specialist at District Headquarters, 9225 CR 49, Live Oak FL 32060 or by e-mail to tjm@srwmd.org, within twenty-one (21) days of newspaper publication of the notice of intended District decision (for those persons to whom the District does not mail or email actual notice). A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes (F.S.), and Chapter 28106, F.A.C. The District will not accept a petition sent by facsimile (fax). Mediation pursuant to Section 120.573, F.S., is not available.

A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Live Oak, FL during the District's regular business hours. The District's regular business hours are 8 a.m. – 5 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8 a.m. on the next regular District business day.

The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, Chapter 28-106, Florida Administrative Code, and Rule 40B-1.1010, Florida Administrative Code. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. **Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, F.A.C.).**

If you wish to do so, you may request the Notice of Rights for this permit by contacting the Business Resource Specialist in the Division of Resource Management (RM), 9225 CR 49, Live Oak, FL 32060, or by phone at 386.362.1001.

NEWSPAPER ADVERTISING

ALACHUA

Gainesville Sun Legal Advertising
PO Box 14747
Gainesville, FL 32614
352.372.4222

BRADFORD

Bradford County Telegraph, Legal Advertising
P. O. Drawer A
Starke, FL 32901
904-964-6305/ fax 904-964-8628

COLUMBIA

Lake City Reporter
180 E Duval Street
Lake City, FL 32055
386.754.0401

DIXIE

Dixie County Advocate
174 County Road 351
Cross City, FL 32628
352.498.3312

GILCHRIST

Gilchrist County Journal
207 N Main St
Trenton, FL 32693
352.463.7135

HAMILTON

Jasper News
521 Demorest Street SE
Live Oak, FL 32064
386.362.1734

JEFFERSON

Monticello News
PO Drawer 772
Madison, FL 32344
850.997.3568

LAFAYETTE

Mayo Free Press
521 Demorest Street SE
Live Oak, FL 32064
386.362.1734

LEVY

Levy County Journal
PO Box 159
Bronson, FL 32621
352.486.2312

MADISON

Madison Carrier
PO Drawer 772
Madison, FL 32344
850.973.4141

SUWANNEE

Suwannee Democrat
521 Demorest Street SE
Live Oak, FL 32064
386.364.1734

TAYLOR

Taco Times
PO Box 888
Perry, FL 32348
850.584.5513

UNION

Union County Times
125 E Main Street
Lake Butler, FL 32054
386.496.2261



SUWANNEE RIVER WATER MANAGEMENT DISTRICT

9225 CR 49 • LIVE OAK, FLORIDA 32060 • TELEPHONE 386/362-1001 • 800/226-1066 • FAX 386/362-1056
mysuwanneeriver.com

January 4, 2018

Janak Shukla
ERA INVESTMENTS LLC
3010 W Us Highway 90
Lake City, FL 32055-7711

SUBJECT: Permit Number ERP-023-209165-3
Lake City Hotels

Dear Janak Shukla:

Enclosed is your individual permit issued by the Suwannee River Water Management District on January 04, 2018. This permit is a legal document and should be kept with your other important documents. Permit issuance does not relieve you from the responsibility of obtaining any necessary permits from any federal, state, or local agencies for your project.

Noticing Your Permit:

For noticing instructions, please refer to the noticing materials in this package regarding closing the point of entry for someone to challenge the issuance of your permit. Please note that if a timely petition for administrative hearing is filed, your permit will become non-final and any activities that you choose to undertake pursuant to your permit will be at your own risk.

Compliance with Permit Conditions:

To submit your required permit compliance information, go to the District's website at <https://permitting.sjrwmd.com/srepermitting/jsp/start.jsp>. Click to sign-in to your existing account or to create a new account. Select the "Apply/Submit" tab, select "Submit Compliance Data", enter your permit number, and select "No Specific Date" for the Compliance Due Date Range. You will then be able to view all the compliance submittal requirements for your project. Select "the compliance item that you are ready to submit and then attach the appropriate information or form. The forms to comply with your permit conditions are available at floridaswater.com/permitting under the section "Handbooks, forms, fees, final orders". Click on forms to view all permit compliance forms, then scroll to the ERP application forms section and select the applicable compliance forms. Alternatively, if you have difficulty finding forms or need copies of the appropriate forms, please contact the Resource Management Division at (386) 362-1001.

Transferring Your Permit:

Your permit requires you to notify the District in writing within 30 days of any change in ownership or control of the project or activity covered by the permit, or within 30 days of any change in ownership or control of the real property on which the permitted project or activity is located or occurs. You will need to provide the District with the information specified in rule 62-330.340, Florida Administrative Code (F.A.C.). Generally, this will require you to complete and submit Form 62-330.340(1), "Request to Transfer Permit".

Please note that a permittee is liable for compliance with the permit before the permit is transferred. The District, therefore, recommends that you request a permit transfer in advance in

DON QUINCEY Chair
Chiefland, Florida

ALPHONAS ALEXANDER Vice Chair
Madison, Florida

VIRGINIA H. JOHNS Secretary/Treasurer
Alachua, Florida

KEVIN BROWN
Alachua, Florida

GARY F. JONES
Old Town, Florida

CHARLES KEITH
Lake City, Florida

VIRGINIA M. SANCHEZ
Old Town, Florida

RICHARD SCHWAB
Perry, Florida

BRADLEY WILLIAMS
Monticello, Florida

HUGH THOMAS
Executive Director

accordance with the applicable rules. You are encouraged to contact District staff for assistance with this process.

Thank you and please let us know if you have additional questions. For general questions contact us at (386) 362-1001.

Sincerely,



Hugh Thomas
Executive Director

Enclosures: Permit

cc: District Permit File

ERP Individual Permit

PERMITTEE:

Janak Shukla
ERA INVESTMENTS LLC
3010 W Us Highway 90
Lake City, FL 32055-7711

PERMIT NUMBER: ERP-023-209165-3

DATE ISSUED: January 04, 2018

DATE EXPIRES: January 04, 2023

COUNTY: Columbia

TRS: S35 T3S R16E, S2 T4S R16E

PROJECT: Lake City Hotels

Upon completion, the approved entity to which operation and maintenance maybe transferred pursuant to rule 62-330.310 and 62-330.340 or 40B-4.1130, Florida Administrative Code (F.A.C) shall be:

Mahendra Patel
AURUM, L.L.C.
162 NW Birdie Lane
Lake City, FL 32056-0575

Based on the information provided to the Suwannee River Water Management District (District), the above mentioned project has met the conditions of issuance as found in subsection 62-330.301, subsections 62-330.407 through 62-330.635, or subsection 40B-4.3030, F.A.C. The permit is hereby in effect for the activity description below:

Previous permit was for the construction and operation of a surface water management system serving 6.10 acres of impervious surface on a total project area of 10.10 acres. This modification consists of relocating the master stormwater facility and the addition of 8.25 acres of impervious on a total project area of 17.61 acres. When constructed the project shall be in accordance with the application package submitted by Mahendra Patel, of Aurum, LLC., as an authorized agent for the Columbia County Board of County Commissioners, and the signed and sealed plans certified on October 31, 2017, by Christopher Gmuer, P.E., of Gmuer Engineering, LLC.

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

You and any other substantially affected persons are entitled to request an administrative hearing or mediation. Please refer to the enclosed notice of rights.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.
2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the District staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5, F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the District a fully executed Form 62-330.350(1), "Construction Commencement Notice,"[10-1-13], incorporated by reference herein (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02505>), indicating the expected start and completion dates. A copy of this form may be obtained from the District, as described in subsection 62-330.010(5), F.A.C. If available, an District website that fulfills this notification requirement may be used in lieu of the form.
5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 1. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex — "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
 2. For all other activities — "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].

3. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
7. If the final operation and maintenance entity is a third party:
 1. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
 2. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.
8. The permittee shall notify the District in writing of changes required by any other regulatory District that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
9. This permit does not:
 1. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 2. Convey to the permittee or create in the permittee any interest in real property;
 3. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 4. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
11. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
12. The permittee shall notify the District in writing:
 1. Immediately if any previously submitted information is discovered to be inaccurate; and
 2. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C.

This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, District staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.
17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the District will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

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

AUTHORIZED BY: Suwannee River Water Management District

By:



Hugh Thomas
Executive Director

NOTICE OF RIGHTS

1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the Suwannee River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Section 120.569 and 120.573, Florida Statutes, (F.S.), before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections 120.569 and 120.57 F.S. Pursuant to Rule 28-106.111, Florida Administrative Code, (F.A.C.), the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, F.A.C.
2. If the Governing Board takes action which substantially differs from the notice of District decision to grant or deny the permit application, a person whose substantial interests are or may be determined has the right to request an administrative hearing or may choose to pursue mediation as an alternative remedy as described above. Pursuant to Rule 28-106.111, F.A.C., the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). Such a petition must comply with Chapter 28-106, F.A.C.
3. A substantially interested person has the right to a formal administrative hearing pursuant to Section 120.569 and 120.57(1), F.S., where there is a dispute between the District and the party regarding an issue of material fact. A petition for formal hearing must comply with the requirements set forth in Rule 28-106.201, F.A.C.
4. A substantially interested person has the right to an informal hearing pursuant to Section 120.569 and 120.57(2), F.S., where no material facts are in dispute. A petition for an informal hearing must comply with the requirements set forth in Rule 28-106.301, F.A.C.
5. A petition for an administrative hearing is deemed filed upon receipt of the petition by the Office of the District Clerk at the District Headquarters in Live Oak, Florida.
6. Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing pursuant to Rule 28-106.111, F.A.C.
7. The right to an administrative hearing and the relevant procedures to be followed is governed by Chapter 120, Florida Statutes, and Chapter 28-106, F.A.C.
8. Pursuant to Section 120.68, F.S., a person who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to the Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.
9. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, F. S., may seek review of the order pursuant to Section 373.114, F.S., by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy of the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.
10. For appeals to the District Courts of Appeal, a District action is considered rendered after it is signed on behalf of the District, and is filed by the District Clerk.

11. Failure to observe the relevant time frames for filing a petition for judicial review, or for Commission review, will result in waiver of the right to review.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing Notice of Rights has been sent to:

Janak Shukla
ERA INVESTMENTS LLC
3010 W Us Highway 90
Lake City, FL 32055-7711

This January 04, 2018



Deputy Clerk
Suwannee River Water Management District
9225 C.R. 49
Live Oak, Florida 32060
386.362.1001 or 800.226.1066 (Florida only)

cc: File Number: ERP-023-209165-3

NOTICING INFORMATION

Dear Permittee:

Please be advised that the Suwannee River Water Management District (District) has not published a notice in the newspaper advising the public that it has issued a permit for this project.

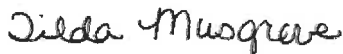
Newspaper publication, using the District's form, notifies members of the public of their right to challenge the issuance of the permit. If proper notice is given by newspaper publication, then there is a 21-day time limit to file a petition challenging the issuance of the permit.

To close the point of entry for filing a petition, you may publish (at your own expense) a onetime notice of the District's decision in a newspaper of general circulation within the affected area as defined in Section 50.011 of the Florida Statutes. If you do not publish a newspaper notice, the time to challenge the issuance of your permit will not expire.

A copy of the notice and a partial list of newspapers of general circulation are attached for your convenience. However, you are not limited to those listed newspapers. If you choose to close the point of entry and the notice is published, the newspaper will return to you an affidavit as proof of publication. In accordance with 40B-1.1010(4), F.A.C., a copy of the affidavit shall be provided to the District within 14 days of publication. A scanned copy of the affidavit may be forwarded to Tilda Musgrove by email at tjm@srwmd.org (preferred method) or send the original affidavit of publication to:

Tilda Musgrove
Resource Management
9225 CR 49
Live Oak, FL 32060

If you have any questions, please contact me at 386.362.1001.
Sincerely,



Tilda Musgrove
Business Resource Specialist
Resource Management

NOTICE OF AGENCY ACTION TAKEN BY THE
SUWANNEE RIVER WATER MANAGEMENT DISTRICT

Notice is given that the following permit was issued on _____:
(Name and address of applicant) _____
permit# _____. The project is located in _____ County, Section
_____, Township _____ South, Range _____ East. The permit authorizes a surface
water management system on _____ acres for
_____ known as
_____.

The receiving water body is _____.
A person whose substantial interests are or may be affected has the right to request an
administrative hearing by filing a written petition with the Suwannee River Water Management
District (District). Pursuant to Chapter 28-106 and Rule 40BB-1.1010, Florida Administrative Code
(F.A.C.), the petition must be filed (received) either by delivery at the office of the Resource
Management Business Resource Specialist at District Headquarters, 9225 CR 49, Live Oak FL
32060 or by e-mail to tjm@srwmd.org, within twenty-one (21) days of newspaper publication of the
notice of intended District decision (for those persons to whom the District does not mail or email
actual notice). A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida
Statutes (F.S.), and Chapter 28106, F.A.C. The District will not accept a petition sent by facsimile
(fax). Mediation pursuant to Section 120.573, F.S., is not available.

A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the
District Clerk at the District Headquarters in Live Oak, FL during the District's regular business
hours. The District's regular business hours are 8 a.m. – 5 p.m., excluding weekends and District
holidays. Petitions received by the District Clerk after the District's regular business hours shall be
deemed filed as of 8 a.m. on the next regular District business day.

The right to an administrative hearing and the relevant procedures to be followed are governed by
Chapter 120, Florida Statutes, Chapter 28-106, Florida Administrative Code, and Rule 40B-
1.1010, Florida Administrative Code. Because the administrative hearing process is designed to
formulate final agency action, the filing of a petition means the District's final action may be
different from the position taken by it in this notice. **Failure to file a petition for an
administrative hearing within the requisite time frame shall constitute a waiver of the right
to an administrative hearing. (Rule 28-106.111, F.A.C.).**

If you wish to do so, you may request the Notice of Rights for this permit by contacting the
Business Resource Specialist in the Division of Resource Management (RM), 9225 CR 49, Live
Oak, FL 32060, or by phone at 386.362.1001.

NEWSPAPER ADVERTISING

ALACHUA

Gainesville Sun Legal Advertising
PO Box 14747
Gainesville, FL 32614
352.372.4222

BRADFORD

Bradford County Telegraph, Legal Advertising
P. O. Drawer A
Starke, FL 32901
904-964-6305/ fax 904-964-8628

COLUMBIA

Lake City Reporter
180 E Duval Street
Lake City, FL 32055
386.754.0401

DIXIE

Dixie County Advocate
174 County Road 351
Cross City, FL 32628
352.498.3312

GILCHRIST

Gilchrist County Journal
207 N Main St
Trenton, FL 32693
352.463.7135

HAMILTON

Jasper News
521 Demorest Street SE
Live Oak, FL 32064
386.362.1734

JEFFERSON

Monticello News
PO Drawer 772
Madison, FL 32344
850.997.3568

LAFAYETTE

Mayo Free Press
521 Demorest Street SE
Live Oak, FL 32064
386.362.1734

LEVY

Levy County Journal
PO Box 159
Bronson, FL 32621
352.486.2312

MADISON

Madison Carrier
PO Drawer 772
Madison, FL 32344
850.973.4141

SUWANNEE

Suwannee Democrat
521 Demorest Street SE
Live Oak, FL 32064
386.364.1734

TAYLOR

Taco Times
PO Box 888
Perry, FL 32348
850.584.5513

UNION

Union County Times
125 E Main Street
Lake Butler, FL 32054
386.496.2261

This application is for Phase 2 of the Lake City Hotels project and intends to modify the original master permit with an updated accounting of the impervious associated with Phase 1 and Phase 2. This scope of the Phase 2 project consists of Hotel B and the associated parking lot with drive isle connections to the drive isles of Phase 1. No change to the construction limits, flow patterns, control structures, etc. are proposed with this phase of the project. Please see the site plans for Phase 2 for additional details. The resulting impervious area accounting for the master system following Phase 2 construction will be as follows.

Impervious Areas Accounting with Proposed Phase 2

Impervious (Existing) *	182,297 sf	4.1850 ac
Impervious (Phase 1)	107,983 sf	2.4789 ac
Impervious (Phase 2)	74,902 sf	1.7195 ac
Impervious (Future)	176,585 sf	4.0538 ac
Total Permitted Impv.	541,767 sf	12.4373 ac

* Existing Impervious Area consisted of the Quality Inn, Ruby Tuesdays, and Holiday Inn to the west of the site

Please see the following exhibits attached to this stormwater report. Site Plans for the proposed Phase 2 construction have also been submitted for review. Historical details concerning the master permit can be found under SRWMD ERP # 209165-3 as well as previous permit sequences.

Attached Exhibits:

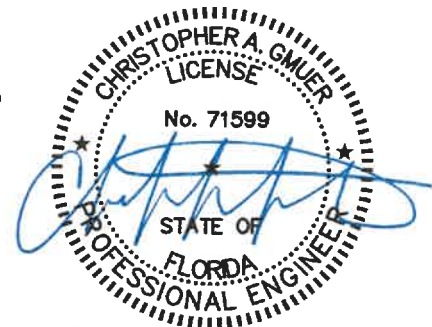
- Master Plan Post-Development Drainage Map permitted under SRWMD ERP # 209165-3
- Site Plan for Phase 1 Hotel A reflecting the current conditions of the site
- Proposed Site Plan for Phase 2 Hotel B reflecting the next phase of the development

Please let us know if you need any additional information for your review.

Sincerely,
Gmuer Engineering, LLC

Christopher A Gmuer, PE
President

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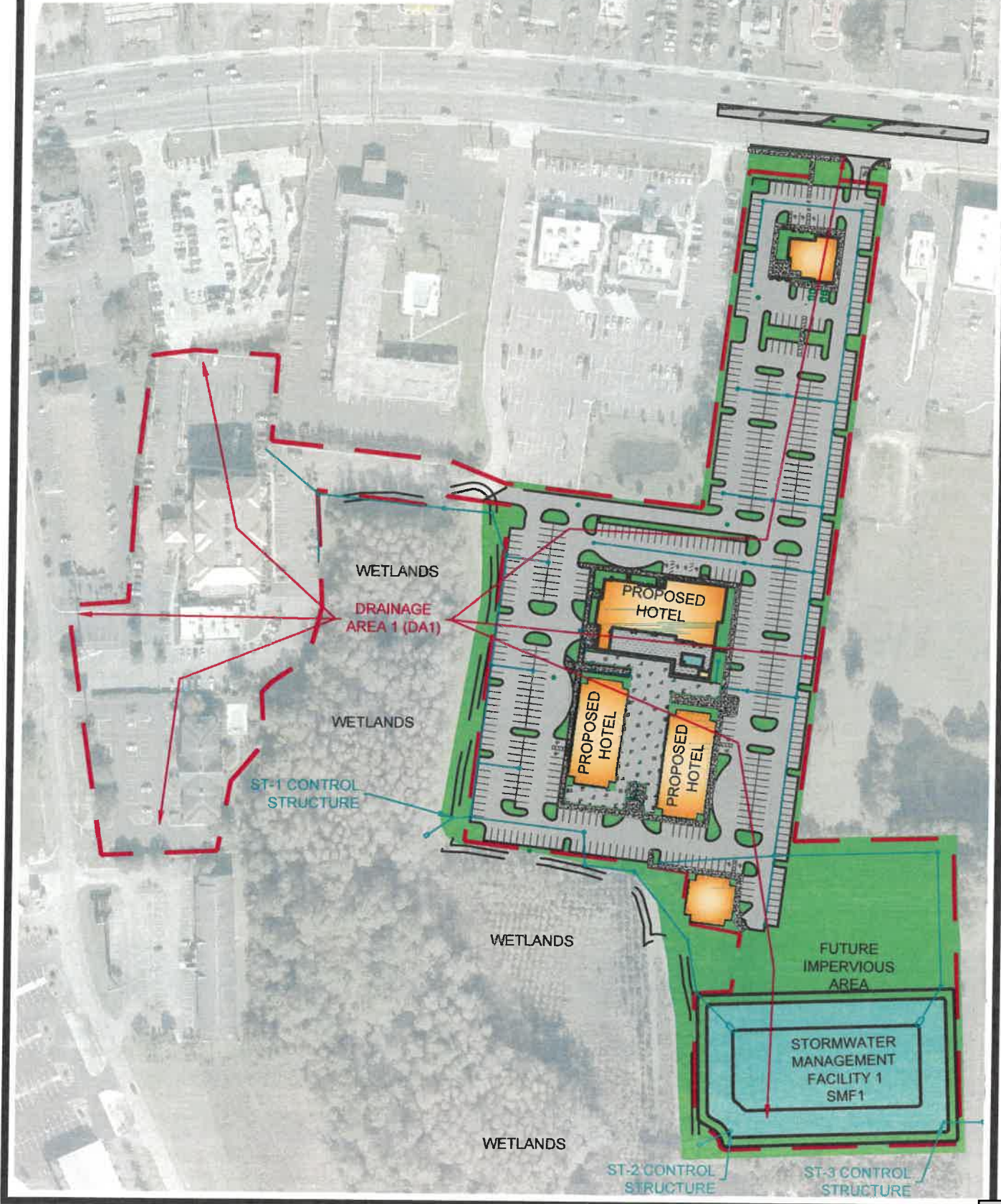
This item has been electronically signed and sealed by Christopher A. Gmuer, PE, using a SHA authentication code.

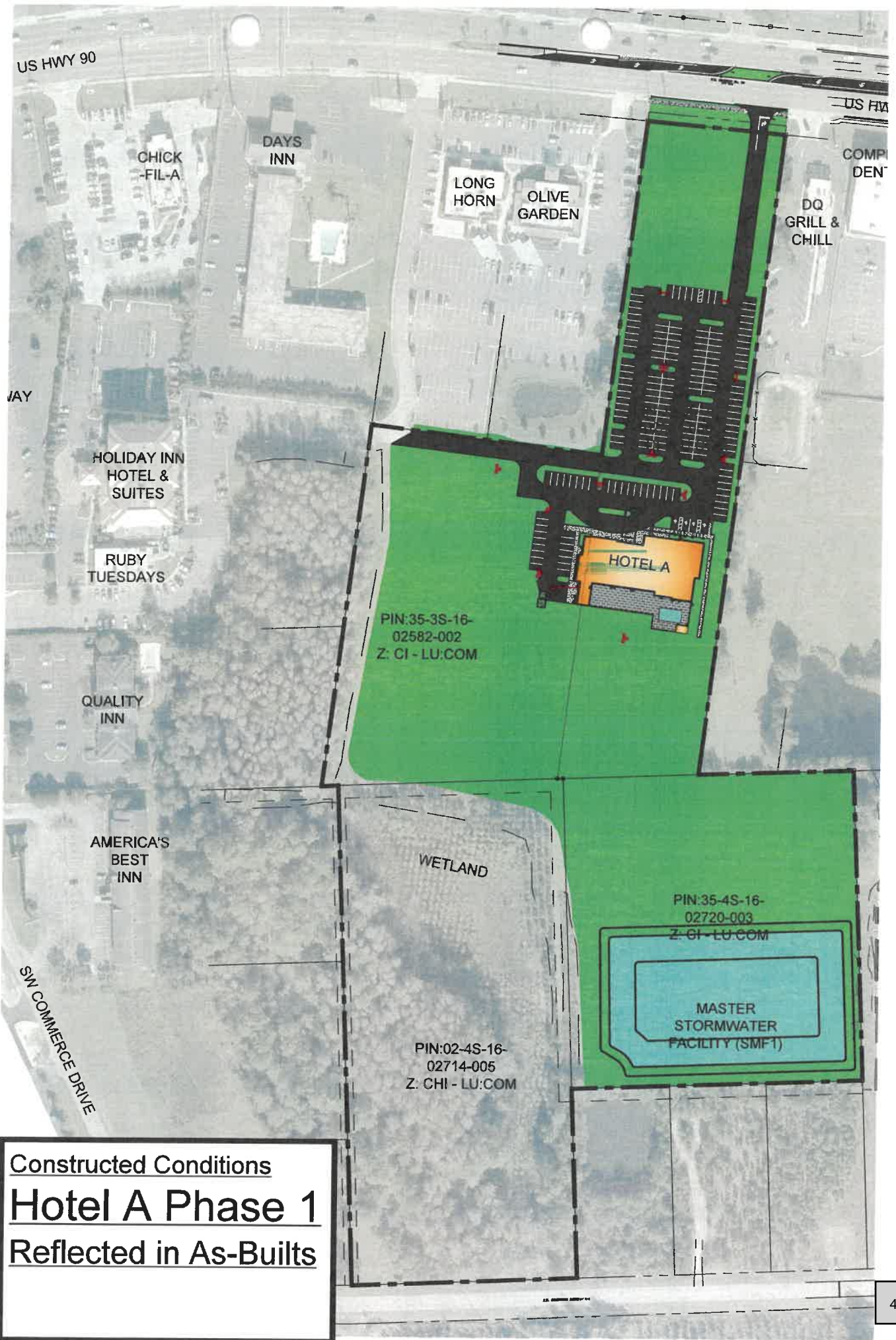
Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies

Lake City Hotels

POST DEV DRAINAGE AREAS

Originally Permitted Master Plan
under SRWMD ERP 209165-3





Constructed Conditions
Hotel A Phase 1
 Reflected in As-Builts

US HWY 90

US HWY 90

CHICK
-FIL-A

DAYS
INN

LONG
HORN

OLIVE
GARDEN

PIN:35-3S-16-
02581-000
Z: CI - LU:COM

COMPLETE
DENTAL

DQ
GRILL &
CHILL

WAY

HOLIDAY INN
HOTEL &
SUITES

RUBY
TUESDAYS

PIN:35-3S-16-
02581-001
Z: CI - LU:COM

HOTEL
PHASE 1

QUALITY
INN

PIN:35-3S-
02581-002
Z: CI - LU:COM

PIN:35-3S-16-
02581-000
Z: CI - LU:COM

HOTEL
PHASE 2

AMERICA'S
BEST
INN

PIN:35-4S-16-
02720-003
Z: CI - LU:COM

WETLAND

MASTER
STORMWATER
FACILITY (SMF1)

PIN:02-4S-16-
02714-005
Z: CHI - LU:COM

SW COMMERCE DRIVE

Proposed
Hotel B Phase 2

Re: Lake City Hotels – Phase 2

Consistency with NFPA 1 Fire Code, Florida Edition, Chap 18

Fire Apparatus Access to the site is being provided via “parking lot lanes” as allowed in 18.2.3.1.2

Fire Apparatus Access to within 50ft of the front and other doors is met as required by 18.2.3.2.1

Parking lots surround the Hotel and are considered access roads per 18.2.3.2.1.2

The parking lot allows access to all parts of the first floor within 150ft per 18.2.3.2.2

The hotel will be protected by an automatic sprinkler system.

The parking lot has multiple access points meeting the multiple access points requirement of 18.2.3.3

All dimensional, surface, turning, grade, etc requirements of 18.2.3.5 for access roads have been met.

A looped water main through the site was constructed as part of the Phase 1 plan to comply with 18.3.1

Fire Flow Requirements for Buildings per NFPA 1 Section 18.4

Building Area = 16,105 SF Footprint X 4-Stories = 64,420 SF GFA, Proposed Use = Hotel

Type of Construction: Either Type II(111), III(211), IV(2HH), or V(111) per NFPA 220

Fire Flow Area: 64,420 SF

Minimum Fire Flow and Duration: 4,500 GPM for 4 Hours (per 18.4.5.2.1)

Qualifies for Approved Automatic Sprinkler System Reduction: Yes, 75% Reduction to 1,125 GPM

Final Minimum Fire Flow and Duration: 1,125 GPM for 2 Hours is the minimum allowed by 18.4.5.3.2 & 4

ISO Fire Flow Calculations are not applicable to sprinklered buildings.

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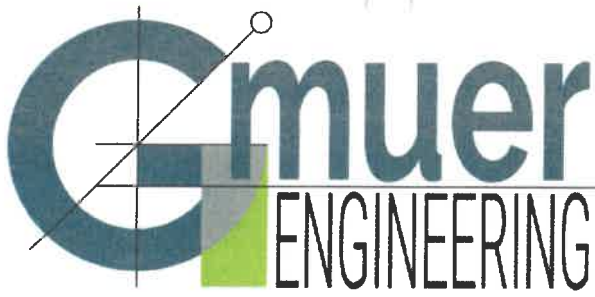
Christopher A Gmuer, PE
FL PE 71599



This item has been electronically signed and sealed by Christopher A. Gmuer, PE, using a SHA authentication code.

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies

1 of 1



2603 NW 13th St, Box 314
Gainesville, FL 32609
Ph. (352) 281-4928

gmuereng.com

Lake City Hotels Phase 2
Concurrency Impact Analysis
April 23, 2024

The proposed project adds a second hotel to the site with 119 rooms.

Transportation

Description	Use	Variable	AADT	AM Peak	PM Peak
Hotel	ITE#310	119 Rooms	951	55	70

Potable Water

Average Daily Flow (ADF): 119 Rooms x 100 GPD = 11,900 GPD

Peak Flow: 11,900 GPD x 2 Peaking Factor / 16 Hour Operating Period x 1 hour / 60 min = 25 GPM

Minimum 2" Water Meter with 4" RPZ BF Preventer

Sanitary Sewer

Average Daily Flow (ADF): 119 Rooms x 100 GPD = 11,900 GPD

Peak Flow: 11,900 GPD x 2 Peaking Factor / 16 Hour Operating Period x 1 hour / 60 min = 25 GPM

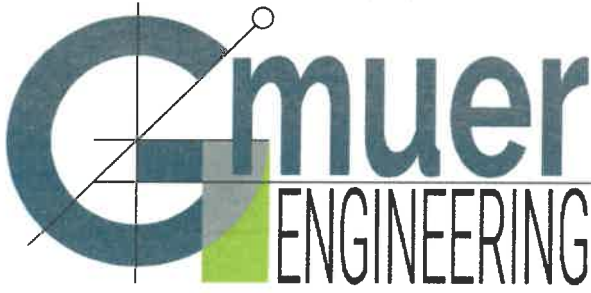
Solid Waste

2 lbs/ room / day x 119 room x 365 days = 43.5 tons per year

Please let us know if you need any additional information for your review.

Sincerely,
Gmuer Engineering, LLC

Christopher A Gmuer, PE, President



Lake City Hotels Phase 2 - April 23, 2024
Consistency with the Comprehensive Plan

The proposed project adds a second hotel to the site with 119 rooms. The underlying land use for the property is Commercial and the zoning designation is CI, Commercial Intensive. The proposed hotel use is a permitted principal use and structure of the CG zoning district and per 14.13.2 is also a permitted principal use and structure. No special exception required.

The Comprehensive Plan language is provided and followed with the **consistency statement in bold**.

I FUTURE LAND USE ELEMENT

GOAL I - IN RECOGNITION OF THE IMPORTANCE OF ENHANCING THE QUALITY OF LIFE IN THE CITY, DIRECT DEVELOPMENT TO THOSE AREAS WHICH HAVE IN PLACE, OR HAVE AGREEMENTS TO PROVIDE, SERVICE CAPACITY TO ACCOMMODATE GROWTH IN AN ENVIRONMENTALLY ACCEPTABLE MANNER.

The property is zoned for the proposed use and infrastructure to support the proposed development was constructed in the first phase of the project to support this and all future phases.

OBJECTIVE I.1 The City Concurrency Management System shall make available or schedule for availability the public facilities for future growth and urban development as development occurs in order to provide for urban densities and intensities within the City.

The infrastructure to support the proposed development was constructed in the first phase of the project.

Policy I.1.1 The location of higher density residential, high intensity commercial and heavy industrial uses shall be directed to areas adjacent to arterial or collector roads, identified on the Future Traffic Circulation Map, where public facilities are available to support such higher density or intensity.

The proposed development is located in direct proximity to US90 adjacent to other hotels. An outparcel is being retained along the direct frontage of US90 for a restaurant or other use that would benefit from more direct access.

Policy I.1.2 The land development regulations of the City shall be based on and be consistent with the following land use classifications and corresponding standards for densities and intensities and shall establish the following floor area ratio(s) to be applied to each classification of land use:

COMMERCIAL

Lands classified as commercial use consist of areas used for the sale, rental, and distribution of products or performance of services, as well as public, charter and private elementary, middle and high schools. In addition, off-

site signs, churches and other houses of worship, private clubs and lodges, residential dwelling units, which existed within this category on the date of adoption of this objective, and other similar uses compatible with commercial uses may be approved as special exceptions and be subject to an intensity of less than or equal to 0.25 floor area ratio except within the (CG) Commercial, General, (CI) Commercial, Intensive, (C-CBD) Commercial-Central Business District and (CHI) Commercial, Highway Interchange districts being subject to an intensity of less than or equal to 1.0 floor area ratio.

The site is located within the (CI) Commercial, Intensive zoning district and meets the max FAR.

OBJECTIVE I.3 The City shall require that all proposed development be approved only where the public facilities meet or exceed the adopted level of service standard.

The infrastructure to support the proposed development was constructed in the first phase of the project and was designed to support all future phases.

Policy I.3.1 The City shall limit the issuance of development orders and permits to areas where the adopted level of service standards for the provision of public facilities found within the Comprehensive Plan are maintained. This provision also includes areas where development orders were issued prior to the adoption of the Comprehensive Plan.

The infrastructure to support the proposed development was constructed in the first phase of the project and was designed to support all future phases.

II TRANSPORTATION ELEMENT

GOAL II - PROVIDE FOR A TRANSPORTATION SYSTEM WHICH SERVES EXISTING AND FUTURE LAND USES.

Policy II.1.2. The City shall control the number and frequency of connections and access points of driveways and roads to arterials and collectors by requiring access points for state roads to be in conformance with Chapter 14-96 and 14-97, Florida Administrative Code, and the following requirements for non-state roads:

The initial phase of this project master planned and provided a traffic study that implemented the shared driveway connection to US90 and all of the shared internal drive isles interconnections which allow interconnectivity between all the adjacent properties. This includes access to SW Commerce Dr to the west through the Ruby Tuesday and Burger King parking lots, north through the Burger King and Chick-fil-a and LongHorn and Olive Garden parking lots.

Policy II.1.3. The City shall continue to require development to provide safe and convenient on-site traffic flow, which includes the provision for vehicle parking.

This proposed phase continues to follow the master plan outlined in the previous application.

Please let us know if you need any additional information for your review.

Gmuer Engineering, LLC
Christopher A Gmuer, PE
President

LEGAL DESCRIPTION:

PARCEL NO. 1: (PER O.R. 1048, PAGE 2678)

LOT OR BLOCK 8, LAKE HARRIS FARMS SUBDIVISION, UNIT "A", ACCORDING TO PLAT THEREOF RECORDED IN PLAT BOOK 1, PAGE 22, PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, EXCEPT THAT PORTION DEEDED TO THE STATE OF FLORIDA FOR ROAD RIGHT-OF-WAY PURPOSES BY CONVEYANCE RECORDED IN DEED BOOK 78, PAGE 275, PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA. SAID LANDS BEING SITUATE IN THE SW 1/4 OF THE SE 1/4 OF SECTION 35, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

PARCEL NO. 2: (PER O.R. 1048, PAGE 2678)

BEGIN AT THE NORTHEAST CORNER OF THE NW 1/4 OF NE 1/4, SECTION 2, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN S 87°54'48"W ALONG THE NORTH LINE OF SAID SECTION 2, 452.80 FEET; THENCE S 02°27'06"E, 481.01 FEET; THENCE N 87°54'48"E, 452.80 FEET TO THE EAST LINE OF SAID NW 1/4 OF NE 1/4; THENCE N 02°27'06"W ALONG SAID EAST LINE, 481.01 FEET TO THE POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA.

PARCEL NO. 3: (PER O.R. 1240, PAGE 658)

TOWNSHIP 3 SOUTH - RANGE 16 EAST

SECTION 35: BEGINNING AT A POINT WHICH IS THE SE CORNER OF LOT 9 OF "LAKE HARRIS FARMS" AS PER PLAT THEREOF RECORDED IN PLAT BOOK 1, PAGE 21, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, SAID POINT BEING N 87°55'17" E 868.20 FEET FROM THE SW CORNER OF THE SW 1/4 OF THE NE 1/4 OF SECTION 35, TOWNSHIP 3 SOUTH, RANGE 16 EAST; THENCE N 7°03'47" E ALONG THE EAST BOUNDARY OF SAID LOT 9 718.40 FEET; THENCE N 84°41'43" W 360.00 FEET; THENCE S 7°03'47" W PARALLEL TO THE EAST BOUNDARY OF SAID LOT 9 765.25 FEET TO THE SOUTH BOUNDARY OF LOT 10 OF SAID "LAKE HARRIS FARMS"; THENCE N 87°55'17" E ALONG THE SOUTH BOUNDARY OF LOTS 10 AND 9 OF SAID "LAKE HARRIS FARMS" 364.46 FEET TO THE POINT OF BEGINNING - COLUMBIA COUNTY, FLORIDA.

LESS AND EXCEPT THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1242, PAGE 949 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

PARCEL NO. 4: (PER O.R. 1084, PAGE 1709)

LOT 4, INTERSTATE COMMERCE CENTER, A SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 5, PAGE 37 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

This Instrument Prepared By:
RALPH R. DEAS, ESQUIRE
227 SE Hernando Avenue
Lake City, Florida 32025
Telephone: (386) 754-0771

The Preparer of this Instrument has prepared NO Title Examination nor has the Preparer issued any Title Insurance or furnished any opinion regarding title, existence of liens, quantity of lands included, or the location of boundaries. The names, addresses, tax identification numbers and legal description are furnished by a party to this Instrument.

Inst: 201812015461 Date: 07/25/2018 Time: 3:41PM
Page 1 of 3 B: 1365 P: 1047, P.DeWitt Cason, Clerk of Court
Columbia, County, By: BD
Deputy Clerk Doc Stamp-Deed: 0.70

CORRECTIVE SPECIAL WARRANTY DEED

THIS WARRANTY DEED, made and executed this 12th day of June, 2018, by and between ANILKUMAR D. PATEL and HEMA PATEL (also known as HEMLATTA PATEL), husband and wife, 162 NW Birdie Place, Lake City, FL 32055, Grantor(s), and ERA INVESTMENTS, LLC, a Florida limited liability company, 3010 U.S. Highway 90 West, Lake City, Florida 32055, Grantee,

WITNESSETH:

That, for and in consideration of the sum of Ten and no/100 Dollars (\$10.00) and other valuable considerations in hand paid by the Grantee to the Grantor(s), the receipt and sufficiency whereof are hereby acknowledged, the Grantor(s) has granted, bargained and sold to the Grantee, and the Grantee's assigns forever, the following-described real property, situate, lying and being in Columbia County, Florida:

See Exhibit A, attached hereto and incorporated herein by reference.

N.B.: The purpose of this Corrective Deed is to correct the description of the property conveyed by that deed recorded at Official Records Book 1334, page 1565-1567, public records of Columbia County, Florida, which failed to set forth the parcel excluded from the deed as a "less-out," a parcel previously conveyed to a stranger to the said deed.

SUBJECT TO restrictions, easements and outstanding mineral rights of record, if any, and taxes after December 31, 2016.

TOGETHER with all the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining.

TO HAVE AND TO HOLD the same in fee simple forever.

And the Grantor(s) does hereby warrant the title to said land, and will defend the same against the lawful claims of all parties claiming by, through, or under the said Grantor.

IN WITNESS WHEREOF, the Grantor(s) has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
In Presence of:

Nimoy Thakkar

Signature of Witness

NIMOY THAKKAR
Printed/Typed Name of Witness

Anilkumar D. Patel

ANILKUMAR D. PATEL

(SEAL)

N.C. Amin

Signature of Witness

MITHILESH AMIN
Printed/Typed Name of Witness

Hema Patel

HEMA PATEL

(SEAL)

(also known as HEMLATTA PATEL)

STATE OF FLORIDA
COUNTY OF MARION

The foregoing Warranty Deed was acknowledged before me by ANILKUMAR D. PATEL, to me personally known OR known after production of _____ as identification, and who DID NOT take an oath, and by HEMA PATEL (also known as HEMLATTA PATEL), to me personally known OR known after production of FLORIDA DRIVER LICENSE as identification, and who DID NOT take an oath, this 12TH day of JUNE, 2018.

Amit Patel

Signature of Notary

(Seal if any)

AMIT PATEL

Printed/Typed Name of Notary
Notary Public, State of Florida at Large
Serial No. if any: _____
Commission Expires: _____



AMIT PATEL
Commission # GG 151165
Expires January 21, 2022
Bonded thru Budget Notary Services

EXHIBIT "A"

TOWNSHIP 3 SOUTH – RANGE 16 EAST

SECTION 35: Beginning at a point which is the Southeast corner of Lot 9 of "Lake Harris Farms" as per plat thereof recorded in Plat Book 1, Page 21 of the public records of Columbia County, Florida, said point being N 87 degrees 55 minutes 17 seconds E 868.20 feet from the Southwest corner of the SW ¼ of the NE ¼ of Section 35, Township 3 South, Range 16 East; thence N 7 degrees 03 minutes 47 seconds E along the East boundary of said Lot 9 718.40 feet; thence N 84 degrees 41 minutes 43 seconds W 360.00 feet; thence S 7 degrees 03 minutes 47 seconds W parallel to the East boundary of said Lot 9 765.25 feet to the South boundary of Lot 10 of said "Lake Harris Farms"; thence N 87 degrees 55 minutes 17 seconds E along the South boundary of Lots 10 and 9 of said "Lake Harris Farms" 364.46 feet to the POINT OF BEGINNING. Columbia County, Florida.

LESS AND EXCEPT that portion of the above-described real property conveyed by Grantors to FLORIDA SE, INC., recorded in Official Records Book 1242, pages 925, 929, and 933, public records of Columbia County, Florida, more particularly described as follows: Commence at the Southeast corner of Lot 9 of "Lake Harris Farms" as per plat thereof recorded in Plat Book 1, Page 21 of the public records of Columbia County, Florida,; thence with the East line of said Lot 9 N 8 degrees 23 minutes 37 seconds E, a distance of 506.22 feet to the POINT OF BEGINNING; thence continue with said East line, N 8 degrees 23 minutes 37 seconds E, a distance of 212.18 feet to the Southeast corner of premises described in Official Records Book 706, page 199; thence with the South line thereof, N 83 degrees 21 minutes 53 seconds W, a distance of 360.00 feet to the West line of said premises described in Official Records Book 1199, page 515; thence with said West line, S 08 degrees 23 minutes 37 seconds W, a distance of 201.13 feet; thence S 81 degrees 36 minutes 23 E, a distance of 359.83 feet to the POINT OF BEGINNING.

TOGETHER WITH a non-exclusive perpetual easement for ingress and egress over and across the West 30 feet of the following-described property:

TOWNSHIP 3 SOUTH – RANGE 16 EAST

SECTION 35: Beginning at a point which is the Southeast corner of Lot 9 of "Lake Harris Farms" as per plat thereof recorded in Plat Book 1, Page 21 of the public records of Columbia County, Florida, said point being N 87 degrees 55 minutes 17 seconds E 868.20 feet from the Southwest corner of the SW ¼ of the NE ¼ of Section 35, Township 3 South, Range 16 East; thence N 7 degrees 03 minutes 47 seconds E along the East boundary of said Lot 9 718.40 feet for the POINT OF BEGINNING; thence continue N 7 degrees 03 minutes 47 seconds E along said East boundary 310.00 feet to the South right-of-way line of State Road No. 10 (U.S. Highway No. 90), said point being 87.00 feet from and at right angle to the survey center line of said State Road; thence N 84 degrees 41 minutes 43 seconds W along said South right-of-way line 312.51 feet to the point of curvature of a right-of-way line curve being concave Southwesterly and having a radius of 3276.57 feet; thence Northwesterly along said South right-of-way line curve, a chord bearing and distance of N 85 degrees 06 minutes 35 seconds W 47.40 feet; thence S 7 degrees 03 minutes 47 seconds W parallel to the East boundary of said Lot 9 309.66 feet; thence S 84 degrees 41 minutes 43 seconds E 360.00 feet to the POINT OF BEGINNING. Columbia County, Florida.

N.B.: Grantor hereby states that the subject property is not the homestead of Grantor or of any member of Grantor's family. Neither the Grantor nor any member of Grantor's family lives or resides on the subject property or on any land adjacent thereto.



GROWTH MANAGEMENT DEPARTMENT
 205 North Marion Ave, Lake City, FL 32055
 Phone: 386-719-5750
 E-mail: growthmanagement@lcfcla.com

AGENT AUTHORIZATION FORM

I, ERA Investments, LLC (owner name), owner of property parcel

number 35-3S-16-02582-002 (parcel number), do certify that

the below referenced person(s) listed on this form is/are contracted/hired by me, the owner, or, is an officer of the corporation; or, partner as defined in Florida Statutes Chapter 468, and the said person(s) is/are authorized to sign, speak and represent me as the owner in all matters relating to this parcel.

Printed Name of Person Authorized	Signature of Authorized Person
1. Christopher A. Gmuer, PE	1.
2.	2.
3.	3.
4.	4.
5.	5.

I, the owner, realize that I am responsible for all agreements my duly authorized agent agrees with, and I am fully responsible for compliance with all Florida Statutes, City Codes, and Land Development Regulations pertaining to this parcel.

If at any time the person(s) you have authorized is/are no longer agents, employee(s), or officer(s), you must notify this department in writing of the changes and submit a new letter of authorization form, which will supersede all previous lists. Failure to do so may allow unauthorized persons to use your name and/or license number to obtain permits.

J R Shukla Date 11/16/23
 Owner Signature (Notarized) _____ Date _____

NOTARY INFORMATION:

STATE OF: Florida COUNTY OF: Columbia

The above person, whose name is _____ personally appeared before me and is known by me or has produced identification (type of I.D.) _____ on this 15 day of Nov, 2023.

NOTARY'S SIGNATURE _____





Tax Record

Owner Name
3 of 7

Last Update: 4/24/2024 1:55:31 AM EDT

Details

Tax Record

- » Print View
- Legal Desc.
- Tax Payment
- Payment History
- Print Tax Bill New!
- Change of Address

Register for eBill

Ad Valorem Taxes and Non-Ad Valorem Assessments

The information contained herein does not constitute a title search and should not be relied on as such.

Searches

- Account Number
- GEO Number
- Owner Name**
- Property Address
- Mailing Address

Site Functions

- Tax Search**
- Local Business Tax
- Contact Us
- County Login
- Home

Account Number	Tax Type	Tax Year			
R02582-002	REAL ESTATE	2023			
Mailing Address		Property Address			
ERA INVESTMENTS LLC 162 NW BIRDIE PL LAKE CITY FL 32055		GEO Number 353S16-02582-002			
Exempt Amount	Taxable Value				
See Below	See Below				
Exemption Detail	Millage Code	Escrow Code			
NO EXEMPTIONS	001				
Legal Description (click for full description)					
35-3S-16 1001/10013.97 Acres BEG SE COR OF LOT 9 LAKE HARRIS FARMS, RUN NE 718.40 FT, W 360 FT, S 765.25 FT, E 364.46 FT TO POB. BEING PART OF LOTS 9 & 10 LAKE HARRIS FARMS UNIT A. EX 1.75 AC DESC ORB 1242-933 & EX .42 AC DESC IN PART OF WD 1406-321(LYING See Tax Roll For Extra Legal					
Ad Valorem Taxes					
Taxing Authority	Rate	Assessed Value	Exemption Amount	Taxable Value	Taxes Levied
CITY OF LAKE CITY	4.9000	24,213	0	\$24,213	\$118.64
BOARD OF COUNTY COMMISSIONERS	7.8150	24,213	0	\$24,213	\$189.22
COLUMBIA COUNTY SCHOOL BOARD					
DISCRETIONARY	0.7480	24,213	0	\$24,213	\$18.11
LOCAL	3.2170	24,213	0	\$24,213	\$77.89
CAPITAL OUTLAY	1.5000	24,213	0	\$24,213	\$36.32
SUWANNEE RIVER WATER MGT DIST	0.3113	24,213	0	\$24,213	\$7.54
LAKE SHORE HOSPITAL AUTHORITY	0.0001	24,213	0	\$24,213	\$0.00
Total Millage		18.4914	Total Taxes		\$447.72
Non-Ad Valorem Assessments					
Code	Levying Authority	Amount			
XLCE	CITY FIRE ASSESSMENT	\$61.26			
Total Assessments					\$61.26
Taxes & Assessments					\$508.98
If Paid By		Amount Due			
		\$0.00			

Date Paid	Transaction	Receipt	Item	Amount Paid
11/30/2023	PAYMENT	2101381.0003	2023	\$488.62

Prior Years Payment History

Prior Year Taxes Due
NO DELINQUENT TAXES



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Florida Limited Liability Company

ERA INVESTMENTS, LLC

Filing Information

Document Number L05000041345
FEI/EIN Number 26-0119061
Date Filed 04/21/2005
State FL
Status ACTIVE
Last Event REINSTATEMENT
Event Date Filed 09/27/2017

Principal Address

162 NW BIRDIE PLACE
 LAKE CITY, FL 32055

Changed: 05/01/2019

Mailing Address

162 NW BIRDIE PLACE
 LAKE CITY, FL 32055

Changed: 05/01/2019

Registered Agent Name & Address

SHUKLA, JANAK
 321 SW RIDGE VIEW PLACE
 LAKE CITY, FL 32024

Name Changed: 09/27/2017

Address Changed: 05/01/2019

Authorized Person(s) Detail

Name & Address

Title MGR

SHUKLA, JANAK R

3004,US HWY 90 WEST
LAKECITY, FL 32055

Annual Reports

Report Year	Filed Date
2021	03/31/2021
2022	04/25/2022
2023	03/29/2023

Document Images

03/29/2023 – ANNUAL REPORT	View image in PDF format
04/25/2022 – ANNUAL REPORT	View image in PDF format
03/31/2021 – ANNUAL REPORT	View image in PDF format
04/30/2020 – ANNUAL REPORT	View image in PDF format
05/01/2019 – ANNUAL REPORT	View image in PDF format
03/28/2018 – ANNUAL REPORT	View image in PDF format
09/27/2017 – REINSTATEMENT	View image in PDF format
02/04/2016 – ANNUAL REPORT	View image in PDF format
02/21/2015 – ANNUAL REPORT	View image in PDF format
04/19/2014 – ANNUAL REPORT	View image in PDF format
03/21/2013 – ANNUAL REPORT	View image in PDF format
02/27/2012 – ANNUAL REPORT	View image in PDF format
02/21/2011 – ANNUAL REPORT	View image in PDF format
04/05/2010 – ANNUAL REPORT	View image in PDF format
03/26/2009 – ANNUAL REPORT	View image in PDF format
04/29/2008 – ANNUAL REPORT	View image in PDF format
02/18/2007 – ANNUAL REPORT	View image in PDF format
02/16/2006 – ANNUAL REPORT	View image in PDF format
04/21/2005 – Florida Limited Liabilites	View image in PDF format

LAKE CITY GROWTH MANAGEMENT STAFF ANALYSIS REPORT

Project Information	
Project Name and Case No.	Lake City Hotels Phase 2 site plan review SPR24-06
Applicant	Christopher Gmuer, PE
Owner	ERA Investments, LLC
Requested Action	Site plan review for a, hotel, on parcel 02582-002
Hearing Date	06-11-2024
Staff Analysis/Determination	Sufficient for Review
Prepared By	Robert Angelo

Subject Property Information	
Size	+/- 3.971 Acres
Location	Located behind Olive Garden
Parcel Number	02582-002
Future Land Use	Commercial
Proposed Future Land Use	Commercial
Current Zoning District	Commercial Intensive
Proposed Zoning	Commercial Intensive
Flood Zone-BFE	Flood Zone X and A Base Flood Elevation-N/A

Land Use Table				
Direction	Future Land Use	Zoning	Existing Use	Comments
N	Commercial	CI	Restaurant	
E	Commercial	CI	Hotel	
S	Commercial	CHI	Vacant	
W	Commercial	CHI	Hotel and Restaurant	

Map of Location



Picture of Location



Summary of Request

Applicant has petitioned for a site plan review for the above parcels to build a hotel. This is phase 2.



PUBLIC NOTICE

NOTICE TO THE PUBLIC
REGARDING THE PROPOSED
CONSTRUCTION OF A
NEW WASTEWATER TREATMENT
PLANT AT THE
[Illegible text]

**CITY OF LAKE CITY
NOTICE
LAND USE ACION**

A PUBLIC HEARING IS SCHEDULED TO CONCIDER A REQUEST FOR:

SPR 24-06, a petition by Christopher A. Gmuer, P.E., as agent, to request a Site Plan Review approval be granted as provided for in Section 4.13 of the Land Development Regulations, to get approval on site plan for Lake City Hotels Phase 2 for a property located in the Commercial Intensive zoning district, in accordance with the submittal of the petition dated April 26, 2024, to be located on;

PARCEL 35-3s-16-02582-002

TOWNSHIP 3 SOUTH - RANGE 16 EAST

SECTION 35: BEGINNING AT A POINT WHICH IS THE SE CORNER OF LOT 9 OF "LAKE HARRIS FARMS" AS PER PLAT THEREOF RECORDED IN PLAT BOOK 1, PAGE 21, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, SAID POINT BEING N 87°55'17" E 868.20 FEET FROM THE SW CORNER OF THE SW 1/4 OF THE NE 1/4 OF SECTION 35, TOWNSHIP 3 SOUTH, RANGE 16 EAST; THENCE N 7°03'47" E ALONG THE EAST BOUNDARY OF SAID LOT 9 245.14 FEET; THENCE N 82°47'32" W 67.51 FEET; THENCE N 07°07'10" E 261.13 FEET; THENCE N 82°56'13" W 292.10 FEET; THENCE S 7°03'47" W PARALLEL TO THE EAST BOUNDARY OF SAID LOT 9 564.12 FEET TO THE SOUTH BOUNDARY OF LOT 10 OF SAID "LAKE HARRIS FARMS"; THENCE N 87°55'17" E ALONG THE SOUTH BOUNDARY OF LOTS 10 AND 9 OF SAID "LAKE HARRIS FARMS" 364.46 FEET TO THE POINT OF BEGINNING - COLUMBIA COUNTY, FLORIDA.

WHEN;	June 11, 2024 at 5:30pm or as soon after.
WHERE:	City Council Meeting Room, Second Floor, City Hall, located at 205 North Marion Avenue, Lake City, Florida. Members of the public may also view the meeting on our YouTube channel at: https://www.youtube.com/c/CityofLakeCity .

Copies of the site plan application are available for public inspection by contacting the Growth Management office at growthmanagement@lcfla.com or by calling 386-719-5820.

At the aforementioned public hearing, all interested parties may be heard with respect to the amendment.

**FOR MORE INFORMAITON CONTACT
ROBERT ANGELO
PLANNING AND ZONING TECHNICIAN
AT 386-719-5820**

Angelo, Robert

From: LCR-Classifieds <classifieds@lakecityreporter.com>
Sent: Tuesday, May 28, 2024 11:00 AM
To: Angelo, Robert
Subject: RE: 78430 78431 78432 RE: Non-Legal Ad for P&Z, BOA, and HPA for 06-11-2024

Confirmed!

Thank you much,
Kymerlee Harrison 386-754-0401
Support your local news source while reaching our community of loyal subscribers

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1086 SW Main Blvd. Ste 103, Lake City, FL 32055

PH 386-754-0401

Why Local Newsprint Advertising?

- 1 Newspaper readers are ENGAGED
- 2 Newspapers are viewed as TRUSTWORTHY

From: Angelo, Robert <AngeloR@lcfla.com>
Sent: Tuesday, May 28, 2024 10:59 AM
To: LCR-Classifieds <classifieds@lakecityreporter.com>
Subject: RE: 78430 78431 78432 RE: Non-Legal Ad for P&Z, BOA, and HPA for 06-11-2024

Looks Good

Thank You
Robert Angelo
City of Lake City
Growth Management
growthmanagement@lcfla.com
386-719-5820



PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from City officials regarding City business are public records available to the public and media upon request. Your email communications may be subject to public disclosure.

From: LCR-Classifieds <classifieds@lakecityreporter.com>
Sent: Tuesday, May 28, 2024 10:37 AM
To: Angelo, Robert <AngeloR@lcfla.com>
Subject: 78430 78431 78432 RE: Non-Legal Ad for P&Z, BOA, and HPA for 06-11-2024

Here you go!
P&Z 2x8 247.50

Historic: 2x6.25 206.25

BOA: 2x6 198.00

Thank you much,

Kymerlee Harrison 386-754-0401

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1086 SW Main Blvd. Ste 103, Lake City, FL 32055

PH 386-754-0401

Why Local Newsprint Advertising?

1 Newspaper readers are ENGAGED

2 Newspapers are viewed as TRUSTWORTHY

From: Angelo, Robert <AngeloR@lcfla.com>

Sent: Friday, May 24, 2024 3:49 PM

To: LCR-Classifieds <classifieds@lakecityreporter.com>

Subject: Non-Legal Ad for P&Z, BOA, and HPA for 06-11-2024

Kym

Please publish this ad in the body of the paper as a display ad in the **May 30, 2024** paper.

Thank You

Robert Angelo

City of Lake City

Growth Management

growthmanagement@lcfla.com

386-719-5820



PLEASE NOTE: Florida has a very broad public records law. Most written communications to or from City officials regarding City business are public records available to the public and media upon request. Your email communications may be subject to public disclosure.

NOTICE OF PUBLIC MEETING
CITY OF LAKE CITY
PLANNING AND ZONING BOARD

THIS SERVES AS PUBLIC NOTICE the Planning and Zoning Board will hold a meeting on Tuesday, June 11, 2024 at 5:30 PM or as soon after.

Agenda items-

1. SPR 24-05, Petition submitted by Randall Olney, P.E., (agent) for Concept Companies, (owner), for a Site Plan Review for Dollar General, in a Commercial Intensive zoning district, and located on parcel 08127-005, which is regulated by the Land Development Regulations Section 4.13.
2. SPR 24-06, Petition submitted by Christopher A. Gmuer, P.E., (agent) for ERA Investments, LLC, (owner), for a Site Plan Review for Lake City Hotels Phase 2, in a Commercial Intensive zoning district, and located on parcel 02582-002, which is regulated by the Land Development Regulations Section 4.13.
3. SPR 23-10, Petition submitted by Carol Chadwick, P.E., (agent) for Affiliated Property Management, (owner), for a Site Plan Review for Aspire Dental Addition, in a Residential Office zoning district, and located on parcel 07604-102, which is regulated by the Land Development Regulations Section 4.10.

Meeting Location: City Council Chambers located on the 2nd Floor of City Hall at 205 North Marion Avenue, Lake City, FL 32055.

Members of the public may also view the meeting on our YouTube channel at:

<https://www.youtube.com/c/CityofLakeCity>

Pursuant to 286.0105, Florida Statutes, the City hereby advises the public if a person decides to appeal any decision made by the City with respect to any matter considered at its meetings or hearings, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

SPECIAL REQUIREMENTS: Pursuant to 286.26, Florida Statutes, persons needing special accommodations to participate in this meeting should contact the City Manager's Office at (386) 719-5768.

Robert Angelo
Planning and Zoning Tech.

**CITY OF LAKE CITY CUSTOMER SERVICE BUILDING
173 NW HILLSBORO STREET
LAKE CITY, FL 32055**

**NOTICE OF PUBLIC MEETING
CITY OF LAKE CITY
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SPECIAL REQUIREMENTS: Pursuant to 286.26, Florida Statutes, persons needing special accommodations to participate in this meeting should contact the City Manager's Office at (386) 719-5768.

Robert Angelo
Planning and Zoning Tech



May 13, 2024

To Whom it May Concern,

On June 10, 2024 the Planning and Zoning Board will be having a meeting at 5:30pm at 205 N. Marion. At this meeting we will be hearing a petition submitted by Christopher a. Gmuer, PE, as agent for ERA Investments, LLC, owner, for a site plan review, SPR 24-06, on parcel 02582-002. The site plan review is to build a hotel located within the Commercial Intensive (CI) zoning district.

If you have any questions or concerns please call 386-752-2023 ext. 820 or email me at growthmanagement@lcfla.com.

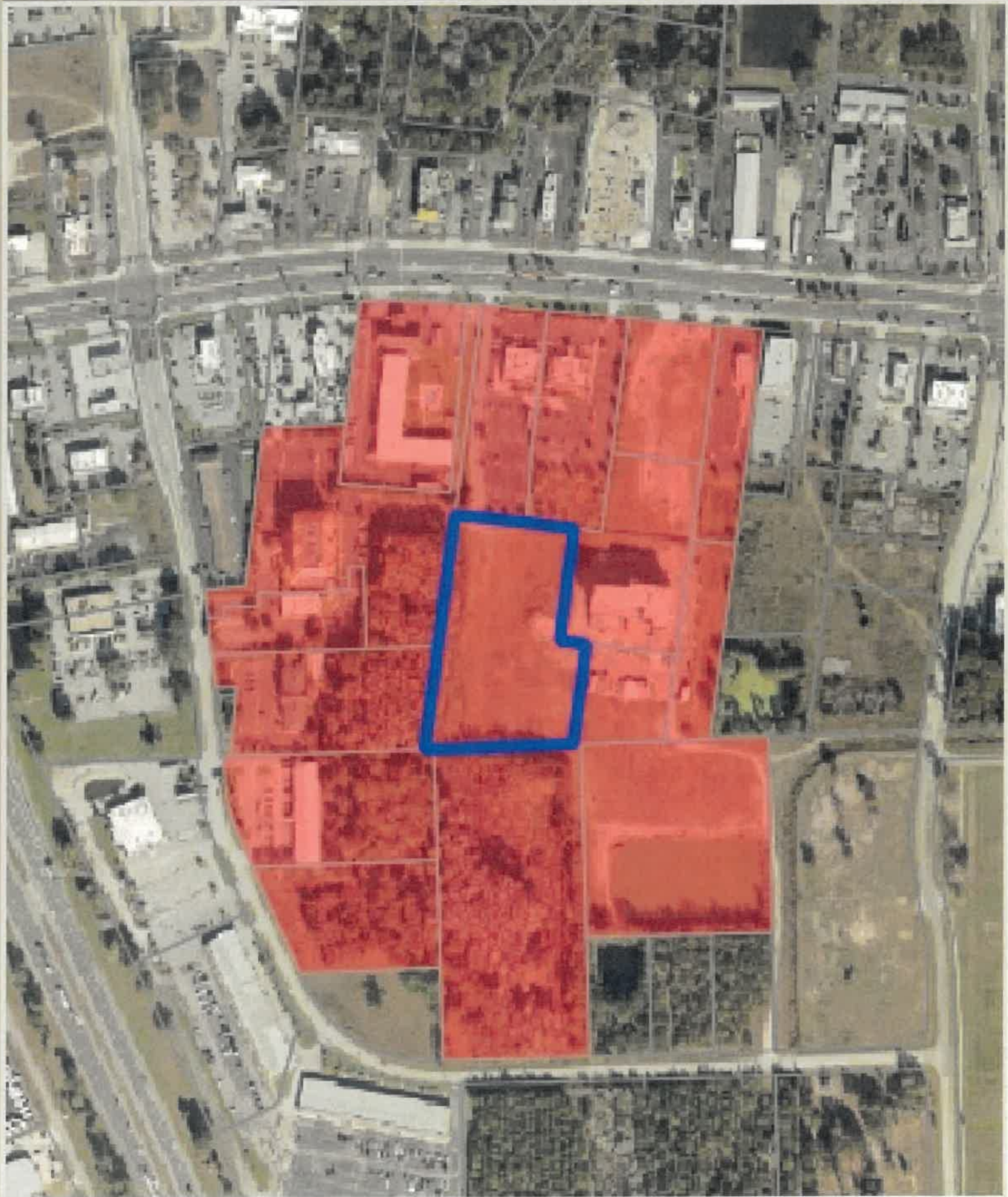
Robert Angelo

Planning and Zoning
City of Lake City

Columbia County Property Appraiser - Sales Report

Name	Address1	Address2	Address3	City	State	ZIP
JIV MANAGEMENT HOLDING SERVICES, LLC	389 TOCCOA PL		JONESBORO	GA		30236
ERA INVESTMENTS LLC	162 NW BIRDIE PL		LAKE CITY	FL		32055
ERA INVESTMENTS LLC	162 NW BIRDIE PL		LAKE CITY	FL		32055
ERA INVESTMENTS LLC	162 NW BIRDIE PL		LAKE CITY	FL		32055
ERA INVESTMENTS LLC	162 NW BIRDIE PL		LAKE CITY	FL		32055
AURUM LLC	162 NW BIRDIE PL		LAKE CITY	FL		32055
STORE MASTER FUNDING XIII LLC	PO BOX 4069		MARYVILLE	TN		37802
AKSHAR MOTEL LLC	285 SW COMMERCE BLVD		LAKE CITY	FL		32025
ASMJ INC	339 SW COMMERCE DR		LAKE CITY	FL		32025
OM SHANTI INC OF LAKE CITY	303 BEVERLY ST SE		LIVE OAK	FL		32064
OASIS LAKE CITY LLC	162 NW BIRDIE PL		LAKE CITY	FL		32055
ERA INVESTMENTS LLC	162 NW BIRDIE PL		LAKE CITY	FL		32055
LAKE CITY 3072 W US HIGHWAY 90, LLC	250 JOHN KNOX RD	SUITE 6	TALLAHASSEE	FL		32303
RARE HOSPITALITY MANAGMENT LLC	100 DARDEN CENTER DRIVE		ORLANDO	FL		32837
R S MOTEL CORP	3896 W US HWY 90		LAKE CITY	FL		32055

GIS Buffer



0 530 1060 1590 2120 437

Certified Mail Receipts for June 10th P&Z Meeting
Site Plan Hotels Phase 2

9589 0710 5270 2044 9908 63

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com
10116055827 FL 32303

Certified Mail Fee \$4.40

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 Return Receipt (hardcopy) \$3.00
 Return Receipt (electronic) \$2.80
 Certified Mail Restricted Delivery \$4.00
 Adult Signature Required \$3.00
 Adult Signature Restricted Delivery \$4.00
 Postage \$0.68

Postmark
Date
Time
Post Office

Postage and Fees \$5.08

PS Form 3800, January 2012

Send to:
Street and Apt. No., PO Box
City, State, ZIP+4®
LAKE CITY 30724 MDUS
HIGHWAY 90 RD SUITE 6
TALLAHASSEE FL 32303

PS Form 3800, January 2012

Street and Apt. No., PO Box
City, State, ZIP+4®
OM SHANTI INC OF LAKE CITY
303 BEVERLY ST SE
LIVEOAK, FL 32064

PS Form 3800, January 2012

Street and Apt. No., PO Box
City, State, ZIP+4®
ERA INVESTMENTS, LLC
162 NW BIRDIE PL
LAKE CITY, FL 32055

Stamp: GAINESVILLE FL 32607 JUN 9 3 2014

9589 0710 5270 2044 9908 87

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For delivery information, visit our website at www.usps.com
LIVE 0087 FL 32064

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 Certified Mail Restricted Delivery \$4.00
 Adult Signature Required \$3.00
 Adult Signature Restricted Delivery \$4.00
 Postage \$0.68

Postmark
Date
Time
Post Office

PS Form 3800, January 2012

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ERA INVESTMENTS, LLC
162 NW BIRDIE PL
LAKE CITY, FL 32055

PS Form 3800, January 2012

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City, State, ZIP+4®
ERA INVESTMENTS, LLC
162 NW BIRDIE PL
LAKE CITY, FL 32055

Stamp: GAINESVILLE FL 32607 JUN 9 3 2014

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 Adult Signature Required \$3.00
 Adult Signature Restricted Delivery \$4.00
 Postage \$0.68

Postmark
Date
Time
Post Office

PS Form 3800, January 2012

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Street and Apt. No., PO Box
City, State, ZIP+4®
RARE HOSPITALITY
MANAGEMENT, LLC
100 DARDEN CENTER DR
ORLANDO, FL 32837

PS Form 3800, January 2012

Street and Apt. No., PO Box
City, State, ZIP+4®
ERA INVESTMENTS, LLC
162 NW BIRDIE PL
LAKE CITY, FL 32055

Stamp: GAINESVILLE FL 32607 JUN 9 3 2014

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 Return Receipt (electronic) \$2.80
 Certified Mail Restricted Delivery \$4.00
 Adult Signature Required \$3.00
 Adult Signature Restricted Delivery \$4.00
 Postage \$0.68

Postmark
Date
Time
Post Office

PS Form 3800, January 2012

Send to:
Street and Apt. No., PO Box
City, State, ZIP+4®
ERA INVESTMENTS, LLC
162 NW BIRDIE PL
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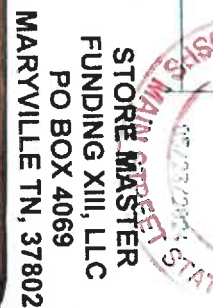
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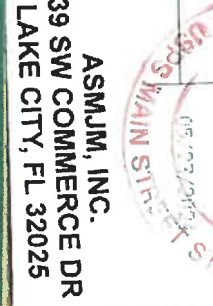
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