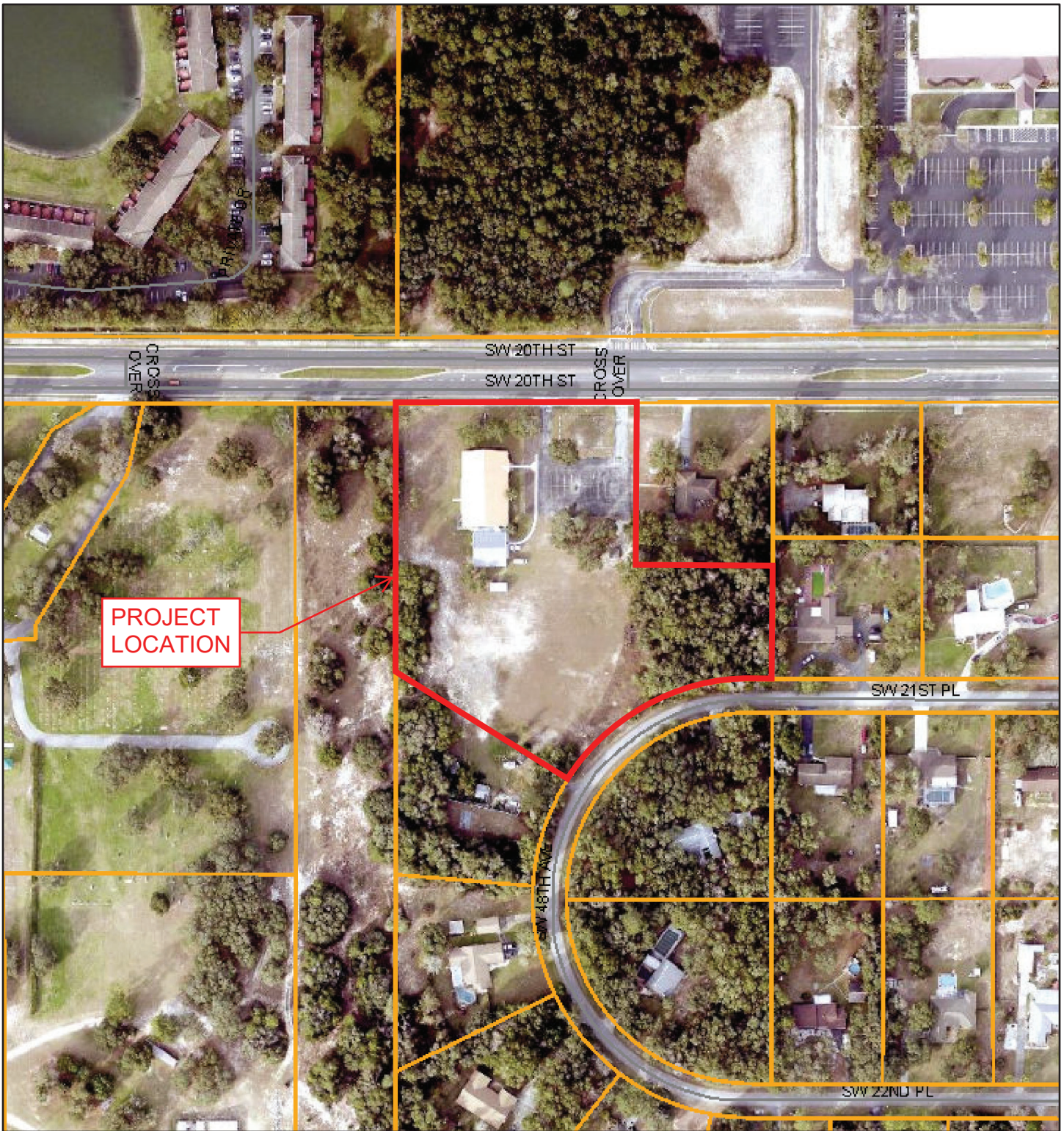


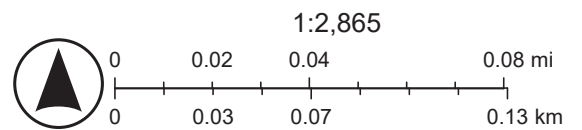


# ArcGIS Web Map



5/22/2026, 9:06:56 AM

-  Parcels
-  Green: Band\_2
-  Streets
-  Blue: Band\_3
- Aerial 2024
-  Red: Band\_1



Marion County Property Appraiser



**Marion County  
Board of County Commissioners**

Office of the County Engineer

412 SE 25th Ave.  
Ocala, FL 34471  
Phone: 352-671-8686  
Fax: 352-671-8687

**Development Review Committee Waiver Request Form**

**Waiver Request to Major Site Plan**

Per Section 2.10.1. of the Land Development Code: The Development Review Committee (DRC) may waive certain code requirements when not applicable to the proposed type of development or where alternative standards may promote flexibility, economical flexibility, and environmental soundness in layout and design.

Waiver requests and required documentation may be submitted through Civic Access. Waiver requests will not be processed without required information and applicable fees paid.

Please be specific in the reason/justification for the request below.

Section Number & Title of Code: LDC 2.21.1.A(1) - Major Site Plan

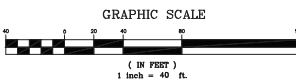
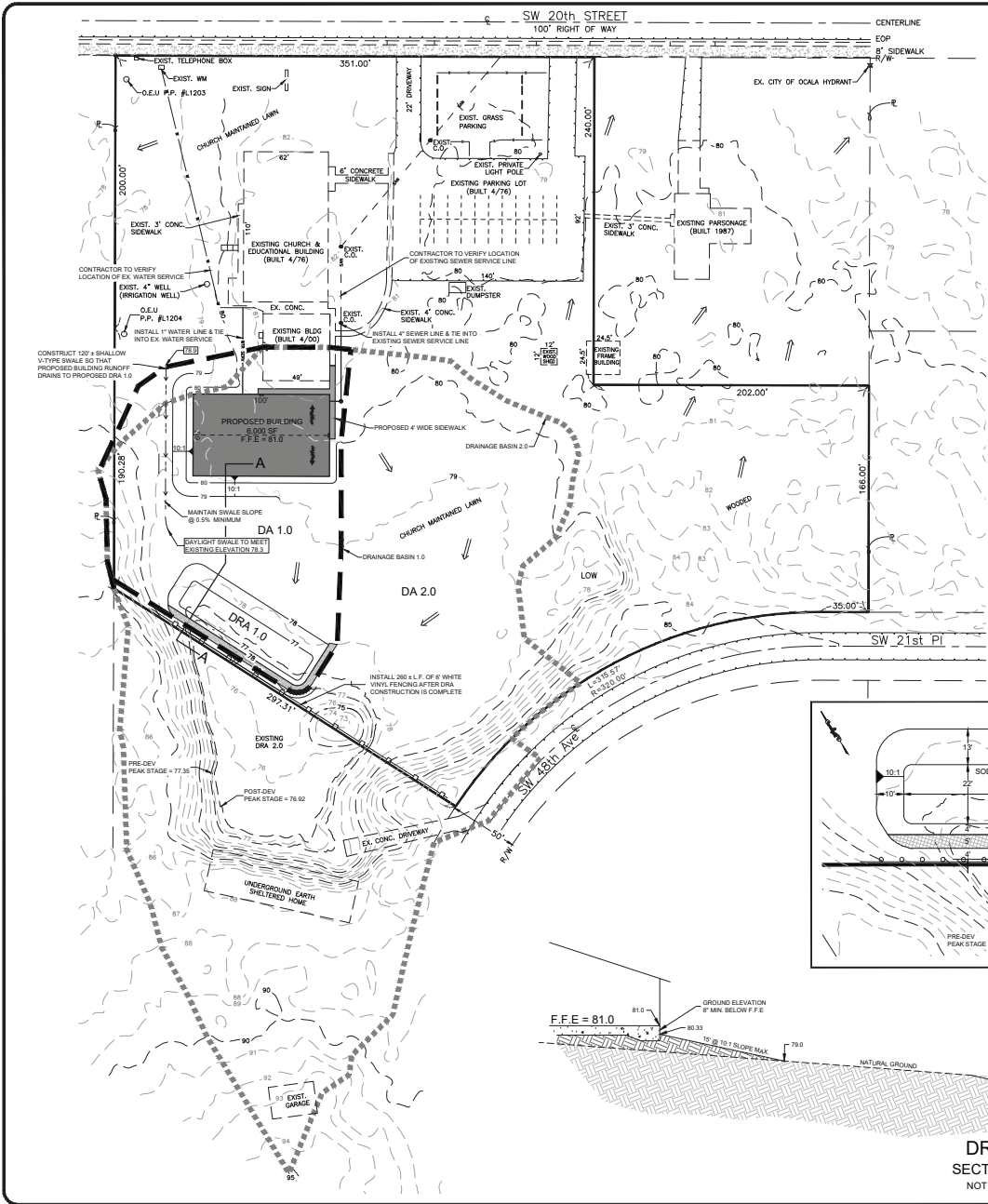
Details from Code:

CODE states a Major Site Plan shall be submitted for review and approval prior to the issuance of a Building Permit or prior to the construction of site improvements when proposed improvements exceed any of the following thresholds (select all that are applicable):

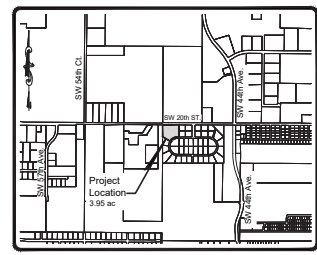
- (1) Collectively, all existing and proposed impervious ground coverage equals or exceeds 35 percent of the gross site area or 9,000 square feet.
- (2) The combined driveway trip generation meets or exceeds 50 peak hour vehicle trips.
- (3) A 24-inch diameter pipe, its equivalent, or larger, is utilized to discharge stormwater runoff from the project area.

Reason/Justification for Request:

Berean Baptist Church requests a waiver to a Major Site Plan for the construction of a new 6,000 SF building addition with associated grading, stormwater controls, and erosion control measures. The proposed building will serve as an accessory recreation/gymnasium facility for existing members of Berean Baptist Church. No additional parking is required or proposed. As a condition of the waiver, we would provide signed and sealed stormwater calculations demonstrating that the proposed improvements meet applicable stormwater control requirements.



DRAFT



SCALE: 1" = 200'  
MARION COUNTY, FLORIDA  
SECTION 22, TOWNSHIP 15, RANGE 21

**Legend:**

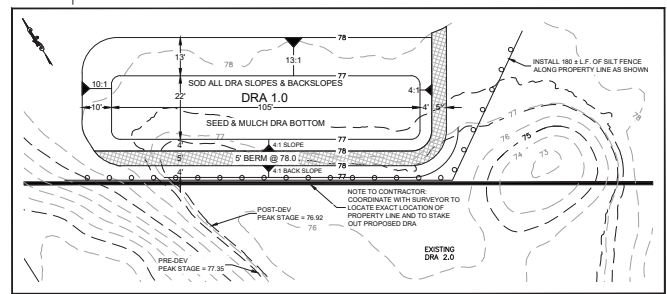
- = PROPOSED GRADE
- = DRA SLOPE DIRECTION
- = EXISTING DRAINAGE FLOW
- = PROPOSED DRAINAGE FLOW
- = C.O. = SEWER CLEANOUT
- = DRAINAGE BASIN 2.0 LINE
- = DRAINAGE BASIN 1.0 LINE
- = DRAINAGE SUB BASIN LINE
- = EXISTING MAJOR CONTOUR LINE
- = EXISTING MINOR CONTOUR LINE
- = PROPOSED CONTOUR LINE
- = PROPOSED SWALE
- = TOP OF 5' BERM

**Site Information:**

PROJECT NAME: BEREN BAPTIST CHURCH - BUILDING ADDITION  
 PROJECT LOCATION: 4800 SW 20th St, Ocala, FL 34474  
 PARCEL NUMBER: 2335-001-001  
 TOTAL AREA: 3.95 ACRES (172,062 SF)  
 OWNER: BEREN BAPTIST CHURCH OF OCALA, INC.  
 CONTACT: MIKE PATTON, PASTOR, BEREN BAPTIST CHURCH  
 SITE ADDRESS: 4800 SW 20th St, Ocala, FL 34474  
 TELEPHONE: 352-657-4900  
 CONSTRUCTION AREA: 0.98 ACRES (42,689 SF)  
 ZONING: R-3/R-4  
 FLOOR AREA RATIO: NONE  
 SETBACKS: FRONT = 25'  
 REAR = 25'  
 SIDES = 8'  
 BUILDING(S) HEIGHT: 40' MAXIMUM

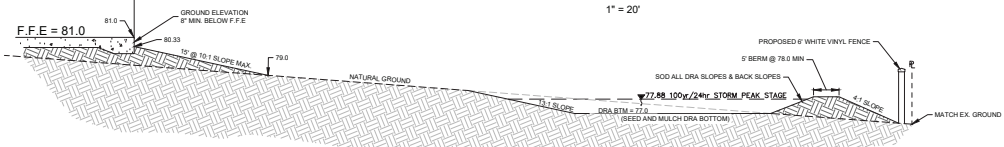
**Notes:**

- THE PROPOSED PROJECT CONSISTS OF CONSTRUCTION OF A NEW 6,000 SF BUILDING ADDITION WITH ASSOCIATED GRADING, STORMWATER CONTROLS, AND EROSION CONTROL MEASURES. THE PROPOSED BUILDING IS INTENDED TO SERVE AS AN ACCESSORY RECREATION/GYMNASIUM FACILITY FOR EXISTING MEMBERS OF BEREN BAPTIST CHURCH. NO ADDITIONAL PARKING IS REQUIRED OR PROPOSED.
- REFER TO STORMWATER CONTROL REPORT FOR DRAINAGE CALCULATIONS.
- THIS PROJECT LIES WITHIN THE SECONDARY SPRINGS PROTECTION ZONE.



DRA 1.0  
1" = 20'

TOTAL SITE IMPERVIOUS AREA	
<b>BUILDINGS:</b>	
6,000 SF	= PROPOSED 60' x 60' BUILDING
2,401 SF	= EXISTING 49' x 49' BUILDING
6,820 SF	= EXISTING 62' x 110' BUILDING
<b>TOTAL</b>	<b>= 15,221 SF</b>
<b>PAVEMENT AREA:</b>	
15,491 SF	= EXISTING SITE PAVEMENT
<b>TOTAL</b>	<b>= 15,491 SF</b>
<b>CONCRETE/SIDEWALKS:</b>	
2,096 SF	= EXISTING CONCRETE/SIDEWALKS
<b>TOTAL</b>	<b>= 2,096 SF</b>
<b>MISCELLANEOUS CONCRETE AREAS</b>	
305 SF	= EXISTING SHED
144 SF	= EXISTING SHED
<b>TOTAL</b>	<b>= 444 SF</b>
<b>TOTAL SITE IMPERVIOUS AREA</b>	<b>33,252 SF (0.76 AC)</b>



DRA 1.0  
SECTION A - A  
NOT TO SCALE

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MICHAEL W. RADCLIFFE, P.E. 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.

<b>Project Name:</b> Beren Baptist Church - 6000 SF Bldg Addition	<b>Scale:</b> 1" = 40'	<b>Date:</b>	<b>Revision:</b>
<b>Drawn:</b> MWR	<b>Project:</b> 2026-15	<b>Date:</b> 6-11-26	<b>By:</b> Beren Baptist Chrch
<b>Checked:</b> MWR	<b>Client:</b> MWR	<b>Scale:</b> 1" = 40'	<b>Project:</b> 2026-15
<b>Approved:</b> MICHAEL W. RADCLIFFE, P.E.	<b>Professional Seal:</b>	<b>Company:</b> RADCLIFFE ENGINEERING, INC.	<b>Website:</b> www.radcliffeengineering.com
<b>Stormwater Control Plan</b>			
Sheet No. C001 of C001			

# STORMWATER CONTROL REPORT

for

## *Berean Baptist Church*

Marion County, Florida

Agency:

*Marion County  
412 SE 25th Ave  
Ocala, FL 34471*

Prepared For:

*Berean Baptist Church  
4820 SW 20th St  
Ocala, FL 34474*

Prepared By:

*Michael W. Radcliffe Engineering, Inc.  
2611 SE Lake Weir Avenue  
Ocala, Florida 34471  
(352) 629-5500*

*June 1, 2026*

+

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY  
MICHAEL W. RADCLIFFE , P.E. 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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# **STORMWATER MANAGEMENT REPORT INDEX**

<b><u>SECTION</u></b>	<b><u>TITLE</u></b>
<b>1</b>	<b>GENERAL INFORMATION</b> <ul style="list-style-type: none"><li>· <b>Project Narrative</b></li><li>· <b>USGS Quad</b></li><li>· <b>Aerial Map</b></li><li>· <b>Wetlands Inventory Map</b></li><li>· <b>FEMA Flood Map</b></li><li>· <b>NRCS Soils Map</b></li><li>· <b>NRCS Soils Information</b></li></ul>
<b>2</b>	<b>DRA 1.0</b> <ul style="list-style-type: none"><li>· <b>CN Calculations</b></li><li>· <b>Stage Storage</b></li><li>· <b>Water Quality Calculation</b></li><li>· <b>PONDS Input Summary</b></li><li>· <b>PONDS Version 3.3 Computer Model</b></li></ul>
<b>3</b>	<b>COPY OF WARRANTY DEED</b>
<b>4</b>	<b>COPY OF OWNER'S RESPONSIBILITIES OF DRA MAINTENANCE</b>

## **SECTION 1**

### **GENERAL INFORMATION**

- **Project Narrative**
- **USGS Quad Map**
- **Aerial Map**
- **Wetlands Inventory Map**
- **FEMA Flood Map**
- **NRCS Soils Map**
- **NRCS Soils Information**

## **PROJECT NARRATIVE**

**Location:** 4820 SW 20<sup>th</sup> Street, Ocala, FL 34474

**Parcel ID:** 2335-001-01

**Owner:** Berean Baptist Church of Ocala, Inc.

**Site Area:** 3.95 acres

### **Existing Conditions**

The site is currently developed with an existing church facility and asphalt parking area. The existing impervious area is approximately **27,252 SF**.

Under existing conditions, stormwater runoff generally sheet flows toward SW 20th Street, where a portion of the runoff is intercepted by the existing public conveyance system within the right-of-way. The remaining runoff generally sheet flows toward the southern portion of the property, which is lower in elevation and contains an existing shallow depression/drainage retention area.

For this analysis, the existing drainage basin tributary to the southern low area is identified as **DB 2.0**, and the existing southern retention/depression area is identified as **DRA 2.0**.

Based on available LiDAR data, the site generally slopes from approximately elevation 82 feet to elevation 73 feet. The mapped onsite soil is **Astatula Sand (AtB)**, classified as Type "A" hydrologic soil. Estimated depth to seasonal high water table and soil permeability values were obtained from the **NRCS Soil Survey of Marion County, Florida**.

### **Proposed Development**

The proposed project consists of construction of a new **6,000 SF building addition** with associated grading, stormwater controls, and erosion control measures. The proposed building is intended to serve as an accessory recreation/gymnasium facility for existing members of Berean Baptist Church. No additional parking is required or proposed.

### **Proposed Stormwater Controls**

The proposed stormwater control include construction of a new shallow drainage retention area identified as **DRA 1.0**. Runoff from the proposed 6,000 SF building addition and contributing graded area will be conveyed by overland flow and shallow swale to DRA 1.0. The contributing drainage area to DRA 1.0 is identified as **DB 1.0**.

DRA 1.0 has been designed to retain the full post-development runoff volume from DB 1.0 for the 100-year, 24-hour storm event. As a result, runoff from the proposed building addition will not discharge offsite.

DRA 1.0 was modeled using **PONDS v3.3** to evaluate pre-development and post-development volumes and peak stages. For modeling purposes, the horizontal and vertical percolation rates used from NRCS were conservatively reduced by 50 percent.

Key design stormwater controls parameters include:

<b>Parameter for DRA 1.0</b>	<b>Elevation / Volume</b>
<b>DRA Top Elevation</b>	<b>78.00</b>
<b>DRA Bottom Elevation</b>	<b>77.00</b>
<b>100-yr, 24-hr Peak Stage</b>	<b>77.88</b>

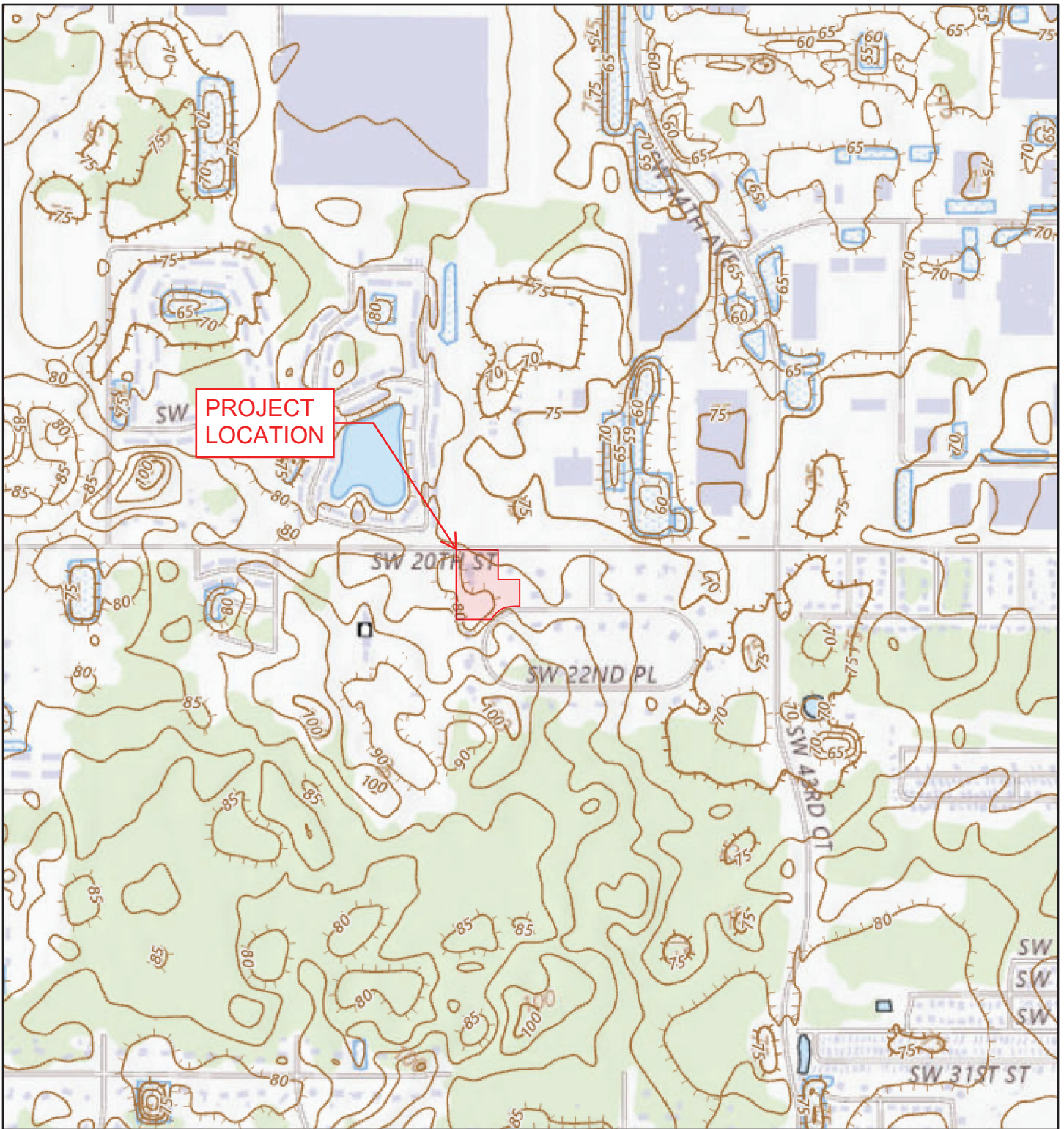
The proposed drainage design reduces the amount of runoff reaching DRA 2.0. The post-development inflow volume to DRA 2.0 is reduced by approximately 8,576 CF, and the modeled 100-year, 24-hour peak stage is reduced from elevation 76.92 to elevation 77.35.

### **FEMA & Erosion Control**





The project area is located in FEMA Zone 'X' per the FEMA Map Service Center at the following website: <https://msc.fema.gov> Refer to the included **FEMA FIRM MAP**.

Disturbed areas within the site and drainage areas will be seeded and mulched unless otherwise specified as being sodded on plans. Silt fencing shall be installed as shown on the Stormwater Control Plan.

# USGS QUAD - OCALA WEST




5/21/2026

-  Normal Index Contours
-  Normal Intermediate Contours
-  Depression Index Contours
-  Depression Intermediate Contours

USGSTopo

 Red: Band\_1

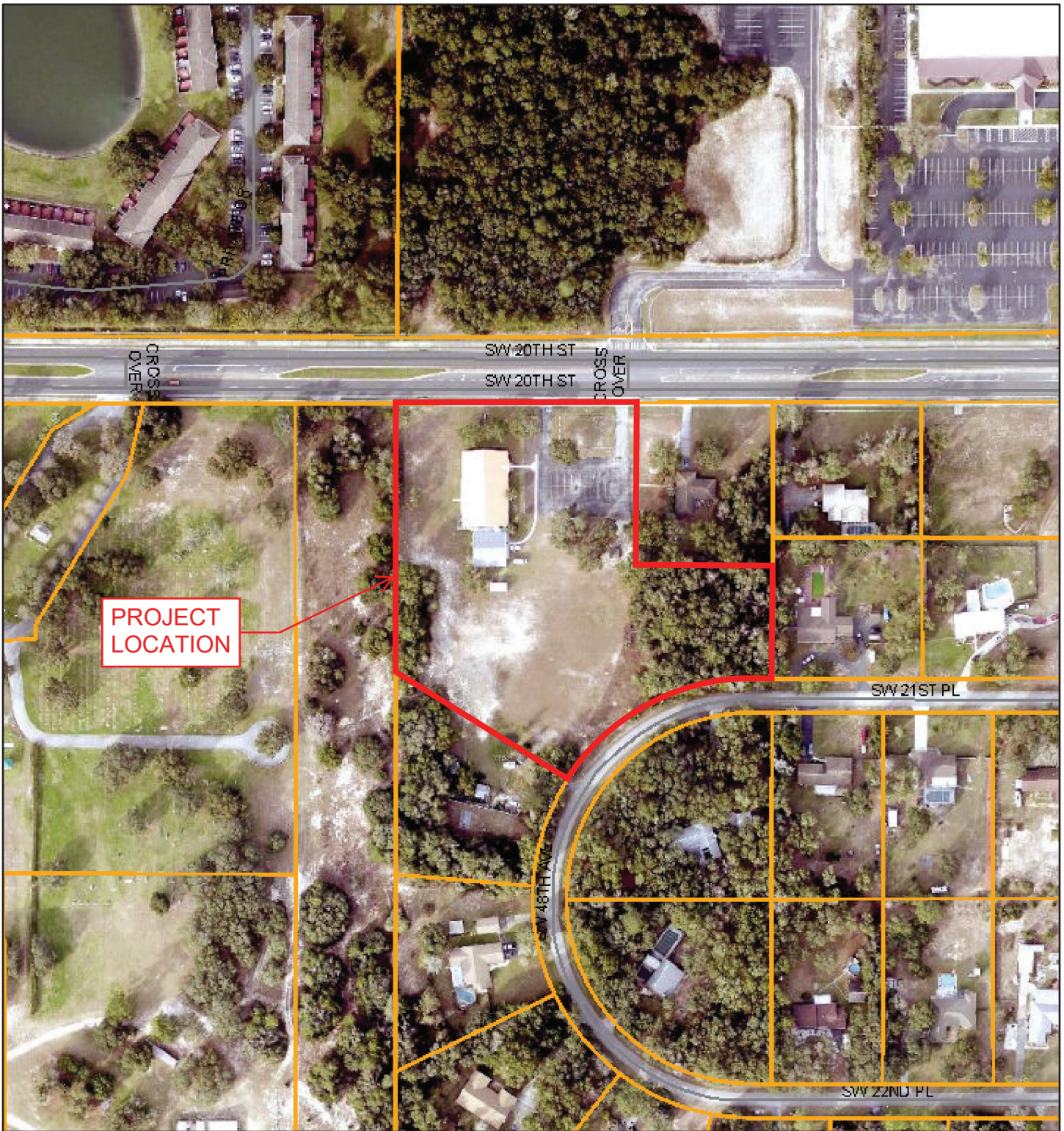
 Green: Band\_2

 Blue: Band\_3





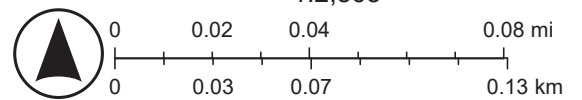
USGS The National Map: 3D Elevation Program. Data Refreshed April, 2026., USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems;

# ArcGIS Web Map



5/22/2026, 9:06:56 AM

-  Parcels
  -  Green: Band\_2
  -  Streets
  -  Blue: Band\_3
  -  Red: Band\_1
- Aerial 2024




Marion County Property Appraiser



May 22, 2026

### Wetlands

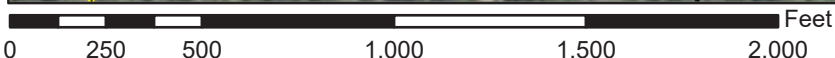
- |   |                                |   |                                   |   |          |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake     |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other    |
|   |                                |  | Freshwater Pond                   |  | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# National Flood Hazard Layer FIRMette



82°12'25"W 29°10'20"N



1:6,000

82°11'47"W 29°9'48"N

Basemap Imagery Source: USGS National Map 2023

### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

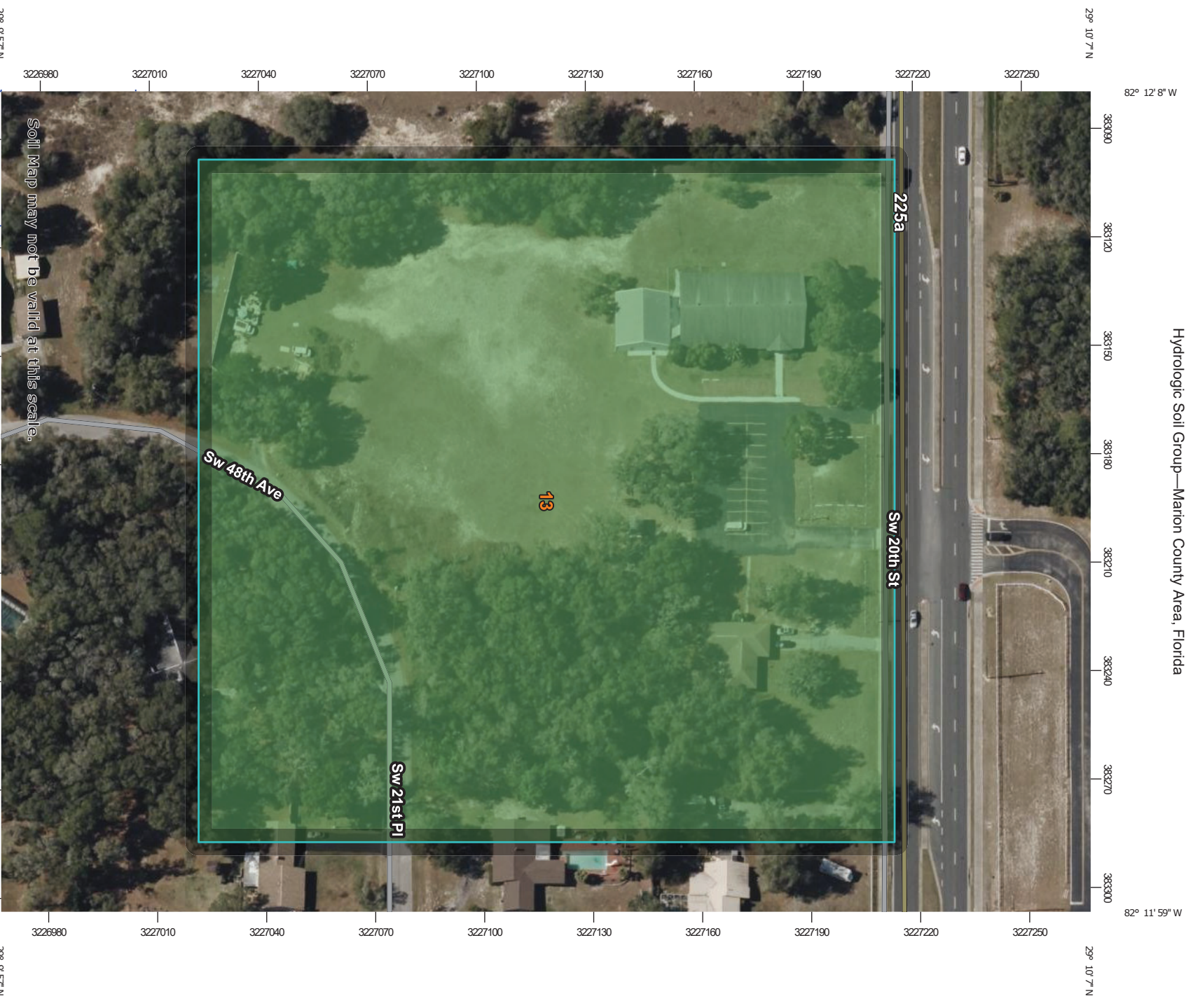
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/28/2026 at 2:26 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Hydrologic Soil Group—Marion County Area, Florida



Map Scale: 1:1,460 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84



































Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

4/21/2026  
Page 1 of 4

### MAP LEGEND

- Area of Interest (AOI)**
  -  Area of Interest (AOI)
- Soils**
  - Soil Rating Polygons**
    -  A
    -  A/D
    -  B
    -  B/D
    -  C
    -  C/D
    -  D
    -  Not rated or not available
  - Soil Rating Lines**
    -  A
    -  A/D
    -  B
    -  B/D
    -  C
    -  C/D
    -  D
    -  Not rated or not available
  - Soil Rating Points**
    -  A
    -  A/D
    -  B
    -  B/D
- Soils**
  -  C
  -  C/D
  -  D
  -  Not rated or not available
- Water Features**
  -  Streams and Canals
- Transportation**
  -  Rails
  -  Interstate Highways
  -  US Routes
  -  Major Roads
  -  Local Roads
- Background**
  -  Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Marion County Area, Florida  
 Survey Area Data: Version 23, Aug 28, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 9, 2022—Feb 10, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
13	Astatula sand, 0 to 5 percent slopes	A	9.0	100.0%
<b>Totals for Area of Interest</b>			<b>9.0</b>	<b>100.0%</b>

### Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

### Rating Options

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* None Specified



TABLE 9.—PHYSICAL AND CHEMICAL PROPERTIES OF SOILS

[The erosion tolerance factor (T) is for the entire profile. Dashes in the erosion factor columns indicate poorly drained and very poorly drained soils where the slope is mostly less than 2 percent and water erosion is no problem. Dashes in other columns indicate that data were not available. Absence of an entry means that data were not estimated. The symbol < means less than; > means more than]

Soil name and map symbol	Depth	Permeability	Available water capacity	Soil reaction	Salinity	Shrink-swell potential	Risk of corrosion		Erosion factors		Wind erodibility group
							Uncoated steel	Concrete	K	T	
	<i>In</i>	<i>In/hr</i>	<i>In/in</i>	<i>pH</i>	<i>Mmhos/cm</i>						
Adamsville: AdB	0-88	6.0-20	0.05-0.10	4.5-6.0	<2	Low	Low	Moderate	---	---	2
Anclote: Ae	0-20 20-80	6.0-20 6.0-20	0.10-0.15 0.03-0.10	5.6-6.5 6.1-7.3	<2 <2	Low Low	Moderate Moderate	Moderate Low	---	---	---
<sup>1</sup> AN: Anclote part	0-20 20-80	6.0-20 6.0-20	0.10-0.15 0.03-0.10	5.6-6.5 6.1-7.3	<2 <2	Low Low	Moderate Moderate	Moderate Low	---	---	---
Tomoka part	0-32 32-43 43-60	6.0-20 6.0-20 0.6-6.0	0.30-0.50 0.05-0.10 0.10-0.15	5.1-6.5 5.1-6.5 5.6-6.5	<2 <2 <2	Low Low Low	High High High	High High High	---	---	2
Apopka: ApB, ApC	0-55 55-81	6.0-20 0.6-2.0	0.03-0.05 0.12-0.17	4.5-6.0 4.5-6.0	<2 <2	Low Low	Low Moderate	High High	0.17 0.28	5	2
Arredondo: ArB, ArC	0-65 65-70 70-90	6.0-20 2.0-6.0 2.0-6.0	0.05-0.08 0.10-0.15 0.12-0.17	4.5-6.0 4.5-6.0 4.5-6.0	<2 <2 <2	Low Low Low	Low Low Moderate	High High High	0.15 0.24 0.37	5	2
<sup>1</sup> AsB: Arredondo part	0-65 65-70 70-90	6.0-20 2.0-6.0 2.0-6.0	0.05-0.08 0.10-0.15 0.12-0.17	4.5-6.0 4.5-6.0 4.5-6.0	<2 <2 <2	Low Low Low	Low Low Moderate	High High High	0.15	5	2
Urban land part.											
Astatula: AtB, AtC	0-92	>20	0.02-0.05	4.5-6.0	<2	Low	Low	High	0.15	5	2
Blichton: BcA, BcB	0-26 26-30 30-77 77-81	6.0-20 2.0-6.0 0.6-2.0 2.0-6.0	0.05-0.10 0.10-0.15 0.10-0.15 0.08-0.12	4.5-6.0 4.5-5.5 4.5-5.5 4.5-5.5	<2 <2 <2 <2	Low Low Moderate Low	High High High High	High High High High	0.20 0.24 0.37	5	---
<sup>1</sup> BdB: Blichton part	0-26 26-30 30-77 77-81	6.0-20 2.0-6.0 0.6-2.0 2.0-6.0	0.05-0.10 0.10-0.15 0.10-0.15 0.08-0.12	4.5-6.0 4.5-5.5 4.5-5.5 4.5-5.5	<2 <2 <2 <2	Low Low Moderate Low	High High High High	High High High High	0.20	5	---
Urban land part.											
Bluff: Bf	0-13 13-29 29-38 38-60	0.2-0.6 0.06-0.2 0.06-0.2 0.06-0.2	0.18-0.20 0.12-0.17 0.12-0.17 0.12-0.17	5.1-7.3 6.1-8.4 6.1-8.4 7.4-8.4	<2 <2 <2 <2	Moderate High High High	High Moderate Moderate Moderate	Low Low Low Low	---	---	---
Boardman: BoC, BoD	0-16 16-22 22-34 34-45 45-56 56-68	6.0-20 0.6-2.0 0.2-0.6 0.06-0.2 0.06-0.2 0.06-0.2	0.05-0.10 0.07-0.12 0.12-0.15 0.13-0.17 0.15-0.18 0.15-0.18	4.5-5.5 4.5-5.5 4.5-5.5 4.5-5.5 4.5-5.5 4.5-5.5	<2 <2 <2 <2 <2 <2	Low Low Moderate High High High	High High High High High High	High High High High High High	0.24 0.32 0.37 0.32 0.32 0.32	4	---

## **SECTION 2**

### **DRA 1.0**

- **CN Calculations**
- **Stage Storage**
- **Water Quality Calculation**
- **PONDS Input Summary**
- **PONDS Version 3.3 Computer Model**

## Michael W. Radcliffe Engineering Inc. Stormwater Calculations

**Project:** Berean Baptist Church  
**Drainage Area:** DA 1.0  
**Notes:** Building Addition  
**Date:** May 21, 2026

Engineer: Mike Radcliffe

Methodology: TR-55 "Urban Hydrology for Small Watersheds"

Drainage Basin		Area (sf)	Area (ac)	CN
Total		35,213	0.808	
Pre	Type A Soils	33,961	0.780	39
	Ex. Bldg.	1,201	0.028	98
	Ex.Conc.	52	0.001	98
	Type D Soils			80
Post	Impervious (Bldgs)	7,201	0.165	98
	Impervious (Asphalt)			98
	Impervious (Conc.)	263	0.006	98
	DRA (Wetted)			100
	Type A Soils	27,749	0.637	39
	Type B Soils			61
	Type C Soils			74
	Type D Soils			80

Pre-developed Weighted CN =	41.10
<b>Post-developed Weighted CN =</b>	<b>51.51</b>

Storm	Rainfall (in)
100yr/24hr SWFWMD ▼	<b>11.0</b>

### Pre-developed Conditions

Watershed length (ft):	1
Watershed slope (%):	1
Depth of Runoff (in) =	2.94
<b>Runoff Volume (cf) =</b>	<b>8,641</b>
(acre-ft) =	0.198
Lag Time (hrs) =	0.00
Time of Conc. (min) =	0.36
FL Interim (csm/in) =	142.15
Peak Discharge, Q (cfs) =	0.53

### Post-developed Conditions

Watershed length (ft):	192
Watershed slope (%):	0.5
Depth of Runoff (in) =	4.49
<b>Runoff Volume (cf) =</b>	<b>13,161</b>
(acre-ft) =	0.302
Lag Time (hrs) =	0.26
Time of Conc. (min) =	25.75
FL Interim (csm/in) =	435.10
Peak Discharge, Q (cfs) =	2.46

<b>Post minus Pre Vol. (cf) =</b>	<b>4,520</b>
(acre-ft) =	0.10

**Michael W. Radcliffe Engineering, Inc.**

**Project:** Berean Baptist Church

**Date:** 5/22/2026

**Subject:** DRA 1.0

**Description:** Drainage Basin 1.0

<b>STAGE STORAGE DRA 1.0</b>						
<b>Elevation</b>	<b>Area</b>	<b>Area</b>	<b>Avg. Area</b>	<b>Elev. Diff.</b>	<b>Storage</b>	<b>Storage</b>
(ft)	(ft <sup>2</sup> )	(acres)	(ft <sup>2</sup> )	(ft)	(ft <sup>3</sup> )	(Ac-ft)
77.0	2,265	0.052	0	0.0	0	0.000
78.0	4,546	0.104	3,406	1.0	3,406	0.078

**WATER QUALITY TREATMENT VOLUME CALCULATIONS  
FOR SWFWMD**

**PROJECT** 2026 - 18 Berean Baptist Church  
**DRAINAGE BASIN** 1.0  
**DATE** 5/22/2026

Water Quality Treatment Volume from the entire drainage basin  
is to be held in the DRA and recover within 72 hours

	<b>Sq. ft.</b>	<b>AC.</b>
<b>Entire Basin Area</b>	35,213	0.808

**The result of the following equation is the water quality treatment volume.**

$$(\text{ENTIRE BASIN AREA S.F.}) \times 0.5" / 12 = \text{WQ}$$

$$\text{WQ} = 1467.208$$

$$\text{WATER QUALITY TREATMENT VOLUME (C.F.)} = 1,467$$

**THE STAGE ELEVATION IS \*\*\*Fill in from Ponds\*\*\***

**THE DRA RECOVERS BELOW POND BOTTOM WITHIN 72 HOURS**

**Michael W. Radcliffe Engineering, Inc.**

**Project:** Berean Baptist Church  
**Date:** 5/22/2026  
**Subject:** DRA 1.0  
**Description:** Drainage Basin 1.0

**PONDS INPUT PARAMETERS**

From pages 4-3 & 4-4 of the PONDS 2.26 Users Manual

$$L = (P/2 + (P^2/4 - (4 \times V/h))^{1/2}) / 2$$

$$W = (P/2 - (P^2/4 - (4 \times V/h))^{1/2}) / 2$$

**DRA 1.0**

DEPTH BETWEEN TOP ELEV. AND BOTTOM., h, ft	1
POND TOP PERIMETER @ ELEV. 78, P, ft	304
POND VOL BETWEEN BOT. ELEV & TOP ELEV, V, cu ft	3,406
<b>EQUIVALENT LENGTH, ft</b>	<b><u>125</u></b>
<b>EQUIVALENT WIDTH, ft</b>	<b><u>27</u></b>

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**Retention Pond Recovery - Refined Method**  
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**Project Data**

Project Name: 2026-18 - Berean Baptist Church  
Simulation Description: Drainage Basin 1.0  
Project Number: 2026-18  
Engineer : Michael W. Radcliffe, P.E.  
Supervising Engineer:  
Date: 05-27-2026

**Aquifer Data**

Base Of Aquifer Elevation, [B] (ft datum): 70.00  
Water Table Elevation, [WT] (ft datum): 71.00  
Horizontal Saturated Hydraulic Conductivity, [Kh] (ft/day): 20.00  
Fillable Porosity, [n] (%): 30.00  
Unsaturated Vertical Infiltration Rate, [Iv] (ft/day): 13.33  
Maximum Area For Unsaturated Infiltration, [Av] (ft<sup>2</sup>): 4546.0

**Geometry Data**

Equivalent Pond Length, [L] (ft): 125.0  
Equivalent Pond Width, [W] (ft): 27.0  
Ground water mound is expected to intersect the pond bottom

**Stage vs Area Data**

Stage (ft datum)	Area (ft <sup>2</sup> )
77.00	2265.0
78.00	4546.0

Estimates of depth to the water table [WT] & soil permeability for Astatula soils were obtained from excerpts of the USDA NRCS Soil Survey of Marion County, FL." See Section 1 of Stormwater Report.

Permeability: > 20 in/ hr

Conservative Permeability: 20 in/ hr

$(20 \text{ in/hr}) / (12 \text{ in/ft}) = 1.66 \text{ ft/hr}$

$1.66 \text{ ft} \times 24 \text{ hr.} = 40 \text{ ft/day}$

$[Kh] = 40 \text{ ft/day divided by } 50\% = 20 \text{ ft/day}$

$[Kv] = 2/3 Kh = 2/3 \times (20) = 13.33 \text{ ft/day}$

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**Scenario Input Data**

*Scenario 1 :: SWFWMD 100yr - 24hr - PRE*

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

Basin Area (acres)           0.808  
 Time Of Concentration (minutes)   25.8  
 DCIA (%)                    0.0  
 Curve Number                41.1  
 Design Rainfall Depth (inches)   11.0  
 Design Rainfall Duration (hours)   24.0  
 Shape Factor                 UHG 256  
 Rainfall Distribution         SCS Type II Florida Modified

Initial ground water level (ft datum)   71.00 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
1.000	6.000	11.000
2.000	7.000	12.000
3.000	8.000	13.000
4.000	9.000	14.000
5.000	10.000	15.000

*Scenario 2 :: SWFWMD 100yr - 24hr - POST*

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

Basin Area (acres)           0.808  
 Time Of Concentration (minutes)   25.8  
 DCIA (%)                    0.0  
 Curve Number                51.51  
 Design Rainfall Depth (inches)   11.0  
 Design Rainfall Duration (hours)   24.0  
 Shape Factor                 UHG 256  
 Rainfall Distribution         SCS Type II Florida Modified

Initial ground water level (ft datum)   71.00 (default)

Time After Storm Event (days)	Time After Storm Event (days)	Time After Storm Event (days)
1.000	6.000	11.000
2.000	7.000	12.000
3.000	8.000	13.000
4.000	9.000	14.000
5.000	10.000	15.000

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**Scenario Input Data (cont'd.)**

*Scenario 3 :: SWFWMD - Water Quality*

Hydrograph Type: Slug Load  
Modflow Routing: Routed with infiltration

Treatment Volume (ft<sup>3</sup>) 1467

Initial ground water level (ft datum) 71.00 (default)

<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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**Summary of Results**    :: Scenario 1 :: SWFWMD 100yr - 24hr - PRE

	Time (hours)	Stage (ft datum)	Rate (ft <sup>3</sup> /s)	Volume (ft <sup>3</sup> )
<b>Stage</b>				
Minimum	Not Available	Not Available		
Maximum	Not Available	Not Available		
<b>Inflow</b>				
Rate - Maximum - Positive	12.246		0.8205	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	26.551			8635.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	386.608			8635.0
<b>Infiltration</b>				
Rate - Maximum - Positive	Not Available		Not Available	
Rate - Maximum - Negative	Not Available		Not Available	
Cumulative Volume - Maximum Positive	Not Available			Not Available
Cumulative Volume - Maximum Negative	Not Available			Not Available
Cumulative Volume - End of Simulation	Not Available			Not Available
<b>Combined Discharge</b>				
Rate - Maximum - Positive	12.246		0.8205	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	26.551			8635.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	386.608			8635.0
<b>Discharge Structure 1 - inactive</b>				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
<b>Discharge Structure 2 - inactive</b>				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
<b>Discharge Structure 3 - inactive</b>				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
<b>Pollution Abatement:</b>				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

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**Detailed Results (cont,d.)** :: Scenario 2 :: SWFWMD 100yr - 24hr - POST

Elapsed Time (hours)	Instantaneous Inflow Rate (ft <sup>3</sup> /s)	Outside Recharge (ft/day)	Stage Elevation (ft datum)	Infiltration Rate (ft <sup>3</sup> /s)	Combined Instantaneous Discharge Rate (ft <sup>3</sup> /s)	Cumulative Inflow Volume (ft <sup>3</sup> )	Cumulative Infiltration Volume (ft <sup>3</sup> )	Combined Cumulative Discharge (ft <sup>3</sup> )	Flow Type
12.5317	1.2956	0.00000	77.64900	0.59566	0	3760.601	1810.2	0	U/P
12.5889	1.2720	0.00000	77.68607	0.60818	0	4025.068	1934.3	0	U/P
12.6461	1.2367	0.00000	77.72016	0.61955	0	4283.467	2060.8	0	U/P
12.7033	1.1828	0.00000	77.75072	0.62960	0	4532.681	2189.5	0	U/P
12.7606	1.1177	0.00000	77.77724	0.63821	0	4769.632	2320.2	0	U/P
12.8178	1.0529	0.00000	77.79971	0.64547	0	4993.202	2452.5	0	U/P
12.8750	0.9934	0.00000	77.81847	0.65150	0	5203.976	2586.1	0	U/P
12.9322	0.9406	0.00000	77.83400	0.65648	0	5403.183	2720.9	0	U/P
12.9894	0.8951	0.00000	77.84676	0.66056	0	5592.258	2856.6	0	U/P
13.0467	0.8562	0.00000	77.85720	0.66389	0	5772.636	2993.0	0	U/P
13.1039	0.8226	0.00000	77.86568	0.66656	0	5945.548	3130.1	0	U/P
13.1611	0.7903	0.00000	77.87241	0.66863	0	6111.679	3267.7	0	U/P
13.2183	0.7570	0.00000	77.87744	0.67011	0	6271.056	3405.6	0	U/P
13.2756	0.7242	0.00000	77.88081	0.67102	0	6423.625	3543.7	0	U/P
13.3328	0.6930	0.00000	77.88261	0.67139	0	6569.604	3682.0	0	U/P
<b>13.3900</b>	<b>0.6638</b>	<b>0.00000</b>	<b>77.88294</b>	<b>0.67128</b>	<b>0</b>	<b>6709.358</b>	<b>3820.4</b>	<b>0</b>	<b>U/P</b>
13.4472	0.6364	0.00000	77.88194	0.67070	0	6843.279	3958.6	0	U/P
13.5044	0.6109	0.00000	77.87968	0.66971	0	6971.750	4096.7	0	U/P
13.5617	0.5868	0.00000	77.87629	0.66833	0	7095.107	4234.5	0	U/P
13.6189	0.5639	0.00000	77.87183	0.66658	0	7213.623	4372.0	0	U/P
13.6761	0.5410	0.00000	77.86634	0.66446	0	7327.424	4509.2	0	U/P
13.7333	0.5176	0.00000	77.85982	0.66199	0	7436.454	4645.8	0	U/P
13.7906	0.4946	0.00000	77.85227	0.65916	0	7540.707	4781.9	0	U/P
13.8478	0.4728	0.00000	77.84373	0.65599	0	7640.350	4917.4	0	U/P
13.9050	0.4524	0.00000	77.83428	0.65252	0	7735.642	5052.2	0	U/P
13.9622	0.4334	0.00000	77.82398	0.64876	0	7826.880	5186.2	0	U/P
14.0194	0.4157	0.00000	77.81290	0.64473	0	7914.344	5319.5	0	U/P
14.0767	0.3984	0.00000	77.80109	0.64044	0	7998.200	5451.8	0	U/P
14.1339	0.3814	0.00000	77.78854	0.63590	0	8078.515	5583.3	0	U/P
14.1911	0.3642	0.00000	77.77527	0.63110	0	8155.306	5713.8	0	U/P
14.2483	0.3473	0.00000	77.76128	0.62606	0	8228.590	5843.3	0	U/P
14.3056	0.3316	0.00000	77.74659	0.62078	0	8298.517	5971.8	0	U/P
14.3628	0.3173	0.00000	77.73128	0.61530	0	8365.354	6099.1	0	U/P
14.4200	0.3047	0.00000	77.71542	0.60963	0	8429.428	6225.3	0	U/P
14.4772	0.2939	0.00000	77.69909	0.60382	0	8491.085	6350.3	0	U/P
14.5344	0.2847	0.00000	77.68237	0.59789	0	8550.684	6474.0	0	U/P
14.5917	0.2772	0.00000	77.66537	0.59186	0	8608.561	6596.6	0	U/P
14.6489	0.2695	0.00000	77.64809	0.58573	0	8664.869	6717.9	0	U/P
14.7061	0.2616	0.00000	77.63055	0.57951	0	8719.571	6837.9	0	U/P
14.7633	0.2538	0.00000	77.61272	0.57319	0	8772.650	6956.6	0	U/P
14.8206	0.2465	0.00000	77.59464	0.56678	0	8824.177	7074.1	0	U/P
14.8778	0.2400	0.00000	77.57631	0.56030	0	8874.289	7190.2	0	U/P
14.9350	0.2343	0.00000	77.55779	0.55376	0	8923.146	7304.9	0	U/P
14.9922	0.2295	0.00000	77.53912	0.54718	0	8970.916	7418.3	0	U/P
15.0494	0.2255	0.00000	77.52036	0.54056	0	9017.773	7530.4	0	U/P
15.1067	0.2221	0.00000	77.50153	0.53393	0	9063.868	7641.0	0	U/P
15.1639	0.2187	0.00000	77.48267	0.52729	0	9109.265	7750.3	0	U/P
15.2211	0.2152	0.00000	77.46375	0.52063	0	9153.958	7858.3	0	U/P
15.2783	0.2119	0.00000	77.44480	0.51395	0	9197.957	7964.8	0	U/P
15.3356	0.2089	0.00000	77.42582	0.50727	0	9241.303	8070.0	0	U/P
15.3928	0.2061	0.00000	77.40683	0.50059	0	9284.051	8173.8	0	U/P
15.4500	0.2037	0.00000	77.38784	0.49391	0	9326.263	8276.3	0	U/P
15.5072	0.2015	0.00000	77.36887	0.48725	0	9367.998	8377.3	0	U/P
15.5644	0.1994	0.00000	77.34995	0.48063	0	9409.289	8477.0	0	U/P
15.6217	0.1971	0.00000	77.33116	0.47402	0	9450.128	8574.5	0	U/S
15.6789	0.1945	0.00000	77.25465	0.46745	0	9490.460	8669.7	0	S
15.7361	0.1913	0.00000	77.20156	0.46091	0	9530.192	8762.3	0	S
15.7933	0.1881	0.00000	77.14883	0.45439	0	9569.273	8852.9	0	S
15.8506	0.1852	0.00000	77.10058	0.44790	0	9607.726	8941.4	0	S
15.9078	0.1825	0.00000	77.05804	0.44143	0	9645.598	9027.9	0	S
15.9650	0.1801	0.00000	77.02075	0.43500	0	9682.947	9112.5	0	S
<b>16.0222</b>	<b>0.1780</b>	<b>0.00000</b>	<b>76.97350</b>	<b>0.29332</b>	<b>0</b>	<b>9719.835</b>	<b>9199.8</b>	<b>0</b>	<b>S</b>
16.0794	0.1760	0.00000	76.91136	0.17605	0	9756.302	9285.3	0	S
16.1367	0.1741	0.00000	76.85757	0.17406	0	9792.365	9368.8	0	S
16.1939	0.1720	0.00000	76.81017	0.17196	0	9828.013	9450.2	0	S
16.2511	0.1698	0.00000	76.76783	0.16980	0	9863.215	9529.5	0	S
16.3083	0.1677	0.00000	76.72962	0.16770	0	9897.970	9606.8	0	S
16.3656	0.1657	0.00000	76.69491	0.16575	0	9932.306	9682.3	0	S
16.4228	0.1640	0.00000	76.66319	0.16401	0	9966.261	9756.0	0	S
16.4800	0.1624	0.00000	76.63410	0.16246	0	9999.876	9828.0	0	S
16.5372	0.1611	0.00000	76.60732	0.16108	0	10033.190	9898.0	0	S
16.5944	0.1598	0.00000	76.58258	0.15982	0	10066.240	9966.2	0	S
16.6517	0.1586	0.00000	76.55965	0.15859	0	10099.040	10033.2	0	S

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**Summary of Results**    :: Scenario 2 :: SWFWMD 100yr - 24hr - POST

	Time (hours)	Stage (ft datum)	Rate (ft <sup>3</sup> /s)	Volume (ft <sup>3</sup> )
<b>Stage</b>				
Minimum	0.000	71.00		
Maximum	13.390	77.88		
<b>Inflow</b>				
Rate - Maximum - Positive	12.188		1.4268	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	26.551			13152.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	386.608			13152.4
<b>Infiltration</b>				
Rate - Maximum - Positive	15.736		0.8912	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	26.551			13152.4
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	386.608			13152.4
<b>Combined Discharge</b>				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	386.608			0.0
<b>Discharge Structure 1 - inactive</b>				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
<b>Discharge Structure 2 - inactive</b>				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
<b>Discharge Structure 3 - inactive</b>				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
<b>Pollution Abatement:</b>				
36 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.
72 Hour Stage and Infiltration Volume	N.A.	N.A.		N.A.

**PONDS Version 3.3.0315**  
**Retention Pond Recovery - Refined Method**  
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**Detailed Results**    :: Scenario 3    :: SWFWMD - Water Quality

Elapsed Time (hours)	Instantaneous Inflow Rate (ft <sup>3</sup> /s)	Outside Recharge (ft/day)	Stage Elevation (ft datum)	Infiltration Rate (ft <sup>3</sup> /s)	Combined Instantaneous Discharge Rate (ft <sup>3</sup> /s)	Cumulative Inflow Volume (ft <sup>3</sup> )	Cumulative Infiltration Volume (ft <sup>3</sup> )	Combined Cumulative Discharge (ft <sup>3</sup> )	Flow Type
0.0000	244.5000	0.00000	71.00000	0.00000	0	0.000	0.0	0	N.A.
0.0017	244.5000	0.00000	77.51350	0.53012	0	1467.000	3.2	0	U/P
2.4000	0.0000	0.00000	----	----	----	1467.000	1467.0	0	dry
6.0000	0.0000	0.00000	----	----	----	1467.000	1467.0	0	dry
12.0000	0.0000	0.00000	----	----	----	1467.000	1467.0	0	dry
24.0000	0.0000	0.00000	----	----	----	1467.000	1467.0	0	dry
36.0000	0.0000	0.00000	----	----	----	1467.000	1467.0	0	dry
48.0000	0.0000	0.00000	----	----	----	1467.000	1467.0	0	dry
60.0000	0.0000	0.00000	----	----	----	1467.000	1467.0	0	dry
72.0000	0.0000	0.00000	----	----	----	1467.000	1467.0	0	dry
84.0000	0.0000	0.00000	----	----	----	1467.000	1467.0	0	dry
96.0000	0.0000	0.00000	----	----	----	1467.000	1467.0	0	dry

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**Summary of Results** :: Scenario 3 :: SWFWMD - Water Quality

	Time (hours)	Stage (ft datum)	Rate (ft <sup>3</sup> /s)	Volume (ft <sup>3</sup> )
<b>Stage</b>				
Minimum	0.000	71.00		
Maximum	0.002	77.51		
<b>Inflow</b>				
Rate - Maximum - Positive	0.002		244.5000	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	0.002			1467.0
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	96.000			1467.0
<b>Infiltration</b>				
Rate - Maximum - Positive	0.002		0.5301	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	0.002			3.2
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	96.000			1467.0
<b>Combined Discharge</b>				
Rate - Maximum - Positive	None		None	
Rate - Maximum - Negative	None		None	
Cumulative Volume - Maximum Positive	None			None
Cumulative Volume - Maximum Negative	None			None
Cumulative Volume - End of Simulation	96.000			0.0
<b>Discharge Structure 1 - inactive</b>				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
<b>Discharge Structure 2 - inactive</b>				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
<b>Discharge Structure 3 - inactive</b>				
Rate - Maximum - Positive	disabled		disabled	
Rate - Maximum - Negative	disabled		disabled	
Cumulative Volume - Maximum Positive	disabled			disabled
Cumulative Volume - Maximum Negative	disabled			disabled
Cumulative Volume - End of Simulation	disabled			disabled
<b>Pollution Abatement:</b>				
36 Hour Stage and Infiltration Volume	36.000	Dry		1467.0
72 Hour Stage and Infiltration Volume	72.000	Dry		1467.0

**SECTION 3**

**COPY OF WARRANTY DEED**



**SECTION 4**

**COPY OF OWNER'S RESPONSIBILITIES OF DRA  
MAINTENANCE**



April 22, 2026

To: Berean Baptist Church, Pastor Mike Patton  
4820 SW 20<sup>th</sup> St,  
Ocala, FL 34474

**RE: Berean Baptist Church, Ocala, Florida  
Owner's Responsibilities for Stormwater Maintenance**

This notice is a requirement of the State Water Management District to advise the owner or owner's agent of their responsibility to maintain the Stormwater Management System as described on the Maintenance Schedule shown below. A copy of this schedule should be given to the person and/or company chosen to perform the maintenance of the property and Stormwater Management System.

#### **MAINTENANCE AND OPERATION SCHEDULE**

1. Basins shall be cleaned and mowed regularly to avoid excessive vegetative growth, at least monthly during winter months and bi-monthly during the growing season.
2. The basins shall be cleaned out annually of accumulated sedimentation buildup. If the basins are showing excessive sedimentation at the basin bottom, the basin bottom shall be scraped clean more frequently.
3. Basin side slopes shall be maintained with a good stand of grass during all seasons to avoid erosion.
4. Inlets, pipes and overflow structures shall be checked regularly for debris, vegetative growth and erosion. Debris and vegetative growth shall be removed from the structure and eroded areas around structures shall be repaired and sodded.
5. Remedial action may be required if the basins do not draw down properly and maintain standing water for an extended period of time. The engineer shall be notified to assist in the implementation of the remedial action.

***"I hereby certify that I, my successors, and assigns shall perpetually operate and maintain the stormwater management system and associated elements in accordance with the specifications shown herein and on the approved plan."***

\_\_\_\_\_  
Mike Patton, Pastor

\_\_\_\_\_  
Date

cc: File