Lakes & Waterways Board Regular Meeting

Agenda

March 14, 2023 @ 12:00 pm

City Hall Commission Chambers
401 S Park Ave.
Winter Park, FL

welcome

Agendas and all backup material supporting each agenda item are accessible via the city's website at cityofwinterpark.org/bpm and include virtual meeting instructions.

assistance & appeals

Persons with disabilities needing assistance to participate in any of these proceedings should contact the City Clerk's Office (407-599-3277) at least 48 hours in advance of the meeting.

"If a person decides to appeal any decision made by the Board with respect to any matter considered at this hearing, a record of the proceedings is needed 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." (F.S. 286.0105).

please note

Times are projected and subject to change.

agenda	time

1. **Call to Order**

2. **Consent Agenda**
   a. Approve of Meeting Minutes for February 14th, 2023 — 2 Minutes
   b. Adminastritive Changes — 2 Minutes

3. **Public Comments (for items not on the agenda): Three minutes allowed for each speaker**

4. **Public Hearings**
   (Public participation and comment on these matters must be in-person.)
   a. Boathouse Application Permit (BLDR-2022-1221) 926 Palmer Ave — 10 Minutes
   b. Shoreline Application Permit (SAP-2022-0021) 926 Palmer Ave — 10 Minutes

5. **Action Items**
   a. REQUEST FOR A RECOMMENDATION ON: AN ORDINANCE OF THE CITY OF WINTER PARK, FLORIDA AMENDING CHAPTER 58, "LAND DEVELOPMENT CODE", ARTICLE III, "ZONING REGULATIONS" SECTION 58-87 "LAKEFRONT LOTS, CANALFRONT LOTS, STREAMFRONT LOTS, REPEALING THE REGULATIONS ON BOATHOUSES AND DOCKS AND AMENDING CHAPTER 114 "WATERWAYS" TO INCORPORATE AND UPDATE THE REGULATIONS CONCERNING DOCKS AND BOATHOUSES. — 20 minutes

6. **Non-Action Items**
   a. Howell Creek Upper Watershed Flooding Impacts — 15 Minutes

7. **Staff Updates**
   a. Winter Park Police Department — 10 Minutes
   b. Lakes Management — 10 Minutes
   c. Stormwater Management — 10 Minutes

8. **Board Comments**
   a. Discussion of Public Comments Received — 5 Minutes

9. **Upcoming Agenda Items**
   a. Discussion of Upcoming Agenda — 5 Minutes

10. Adjournment

Lakes & Waterways Board

agenda item

item type Consent Agenda	meeting date March 14, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Approve of Meeting Minutes for February 14th, 2023

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:

02.14.2022 Lakes Waterways Board Meeting Minutes

Lakes & Waterways Board
Regular Minutes

February 14, 2022 at 12:00 p.m.

City Hall Commission Chambers
401 S. Park Ave. | Winter Park, Florida

Present

Board Members: Vice Chair Warren Bloom, William Swartz, Lindsay Eriksson Siddiqui, Ed Webman, Justin Vermuth (Virtual).

Absent: Pam Saffran, Robert Bendick

City Staff: Natural Resources and Sustainability Director Gloria Eby, Assistant Director of Public Works Don Marcotte, Stormwater Engineer Shannon Monahan, Lakes Division Manager Joey Cordell, Winter Park Police Department Jeff Marcum, Admin Coordinator/Recording Secretary Victoria Tabor.

(1) Call to Order

The meeting was called to order by Chair Webman at 12:00 p.m.

(2) Consent Agenda

a. Approve the meeting minutes for December 13th, 2022.

Motion made by William Swartz, approve the consent agenda the way they were second by Warren Bloom. Motion passed unanimously with a 4-0 vote.

(3) Public Comments (for items not on the agenda):

Mr. Forest Michael come to the meeting to give a brief presentation on Howell Creek upper watershed flooding impacts in Winter Park and to have the board vote to allow him to give the full presentation during the next meeting. What Mr. Michael would like to talk about in the April meeting is a sustainable long-term solution and the root causes for the flooding areas at Hannibal Square and areas near Lake Virginia, Lake Sue, Chelton, and Sylvan.

(4) Public Hearings

a. Boathouse Application (BLDR) 1250 College Point

Mr. Cordell informed the board about the permit that it is a replacement dock at a new location and then went on with the parameters and that staff recommendation is to approve with revegetation condition. We showed the board members the map view of the property, photos of the current dock location and proposed dock location, survey, and the plans. During the discussion Gloria clarified to the board that the 15' walkway isn't included in the 600 totals because it is on land and not in the water.

Motion made by Warren Bloom, to approve the boathouse application (BLDR) second by Lindsay Eriksson Siddiqui. Motion passed unanimously with a 4-0 vote.

b. Boathouse Application (BLDC) 1000 Holt Ave

Mr. Cordell started off explaining that this permit application is a commercial property and the location is at Rollins College. It is an addition to the existing dock that is already on the property where the sail boats are located. When Mr. Cordell talked about the parameters the total area and the length from (OHW) he did inform the board that the application will need a variance. Staff recommendation is to approve it. We showed the board the map view of the property and several photos of the site. During the time that staff showed the pictures to the board, the board asked staff for clarification about the dock and staff gave it. Mr. Herbster came up and spoke about any concerns and questions that's the board members or staff had.

Motion made by William Swartz, to approve the boathouse application (BLDC) second by Lindsay Eriksson Siddiqui. Motion passes unanimously with a 4-0 vote.

(5) Action Items

a. No Action Items

(6) Non-Action Items

a. No Non-Action Items

(7) Staff Updates

a. Winter Park Police –

Officer Marcum gave a brief update to the board and staff. He informed that they haven't been out on the water much because of the chilly weather, so PD has been getting the boat and the boat house ready for the warmer months. Winter Park Police Department is trying to get everything ready for the busy months and plan to have an officer on the water all the time.

b. Lakes Management –

Mrs. Eby started off the lakes update with giving informing the board about the upcoming events that were coming up, the Chain of Lakes Meet and Greet on February 16th and Lake Berry DOCK party on February 25th. Mrs. Eby continued the update with talking about the algae blooms that is happening in the lakes of Winter Park and showed pictures of what it looks like at Dinky Dock. Mr. Webman asked the status of the lakes website and how it was going with getting information on the lakes easily, Mrs. Eby explained that it has been pushed back due to other things that have popped up. Mr. Webman then asked the status of the annual boat decal and Mrs. Eby don't have a new update from the last meeting but she did inform the board that it is in beta testing and we are working to get it launched before the end of June.

Mr. Cordell then went on with lakes management update by informing the board that a new invasive plant has been discovered in Lake Minnehaha canal called Lymnophila and it looks like Cabomba, which is known as Fanwort. Mr. Cordell then went on to talk about the treatments that have been done and the ones that are coming up and more hurricane debris removal from Howell Creek. FWC is scheduled to stock the Chain of Lakes with grass carp in February and on February 26th Lake Berry, Killarney, Bell, and Spier were stocked.

c. Stormwater Management –

Mr. Marcotte started off giving the board a status of the CIP and what projects that they are working on and what will be started soon.

Ms. Monahan gave an update on the upcoming dredging projects and spoke her concern on when to get them started because it will be warmer. Ms. Monahan suggested to the board to close the canals while the dredging process is going on to get them done in a faster time and have them opened on Saturday and Sunday. Ms. Monahan wanted input from the board to figure out what they thought would be better.

(8) Board Comments

Discussion of Public Comments Received – The board members voted to bring back Forest Michael to present his presentation.

Motion made by Warren Bloom, to have Forest Michael do his presentation in the March meeting second by Ed Webman. Motion passes unanimously with a 5-0 vote.

(9) Upcoming Agenda Items

Discussion of Upcoming Agenda Items – No upcoming items were asked

(10) Adjournment

Meeting adjourned at 12:55 p.m.

Next meeting scheduled for April 11th,2023 (in person only)

Minutes approved by the Board on XX/XX/XXXX.
/s/ Recording Secretary Victoria Tabor

Lakes & Waterways Board

agenda item

item type Consent Agenda	meeting date March 14, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject
Adminastritive Changes

motion / recommendation

background

alternatives / other considerations

fiscal impact

Lakes & Waterways Board

agenda item

item type Public Hearings (Public participation and comment on these matters must be in-person.)	meeting date March 14, 2023
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subject

Boathouse Application Permit (BLDR-2022-1221) 926 Palmer Ave

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:
BLDR-2022-1221

LAKE SHORELINE
BOATHOUSE/DOCK APPLICATIONS

BLDR-2022-1221
926 Palmer Ave

- Applicant: Sharon & Marc Hagle
- Contractor: Jack Jennings and Son
- Permitting Agent: Sheila Cichra
- Structure: Dock
- New/Existing: New
- Waterbody: Osceola

Parameters

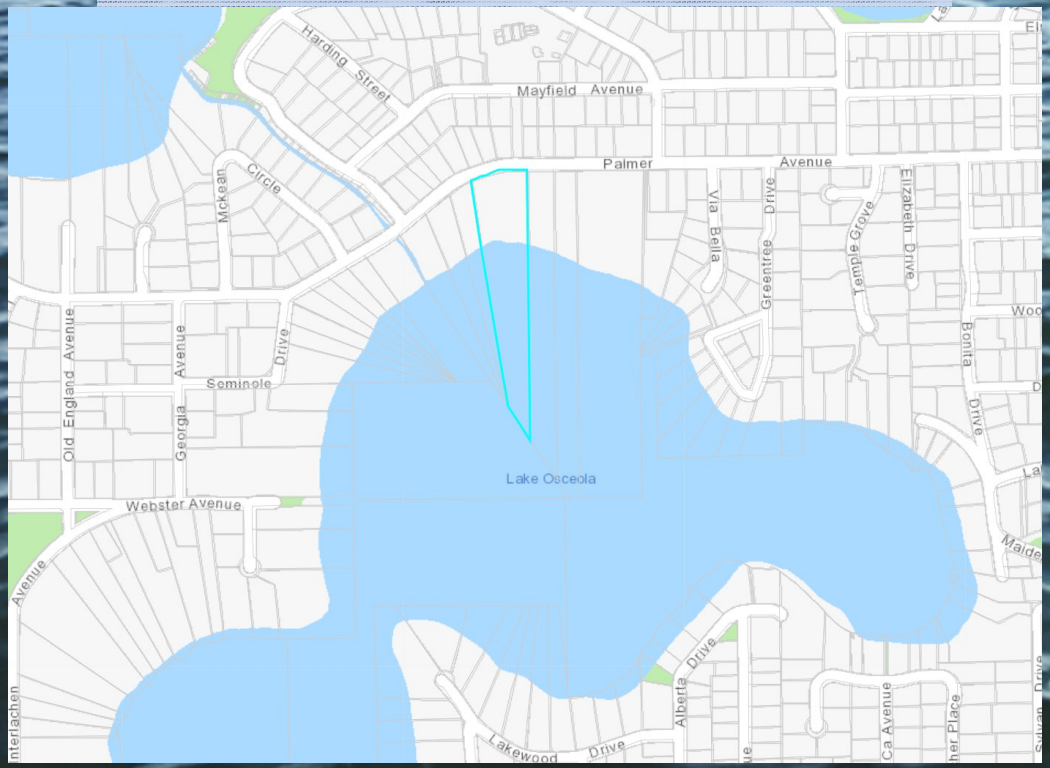
Dock Parameter	Proposed	Allowed	Variance Req.?
Total Area (ft^2)	600	600 max	No
Length from OHW (ft)	30’	30’	No
Height of Roof (ft above deck)	11	11 max	NA
Height of Deck (ft above OHW)	2	2 max	No
Enclosures?	N/A	80 ft^2 max (no plumbing/water allowed)	NA
Side Yard Setback(s) (ft)	20	10 min*	N/A
Meet Vegetation Criteria?	Issued SAP-2022-0015 includes revegetation plan	50% or 50 ft which ever is less may be cleared	N/A

Staff Recommendation: Approval with Condition “No Trees be Removed”

Reviewed by: Joey Cordell

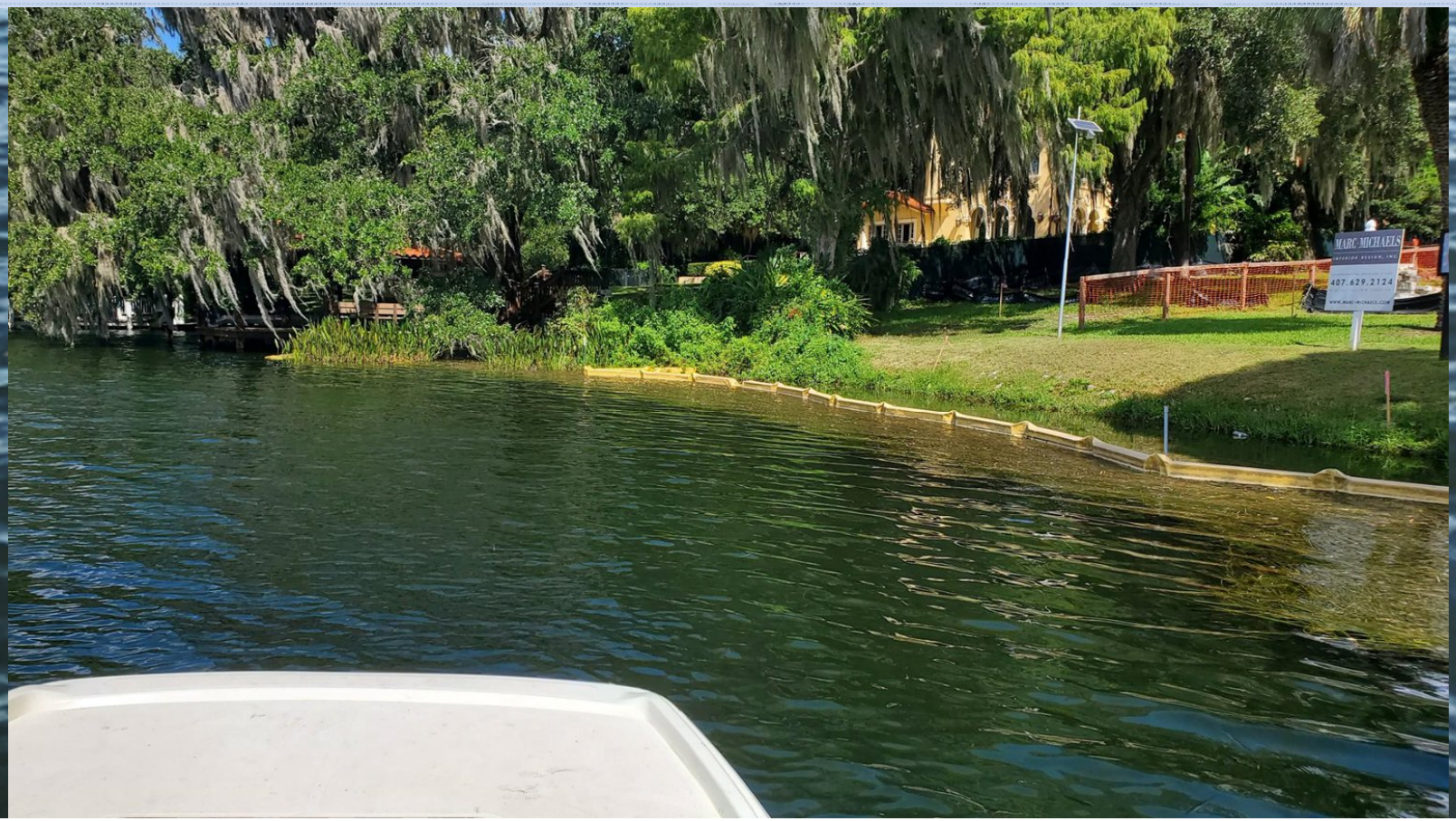
Map View

Basemap



Aerial View

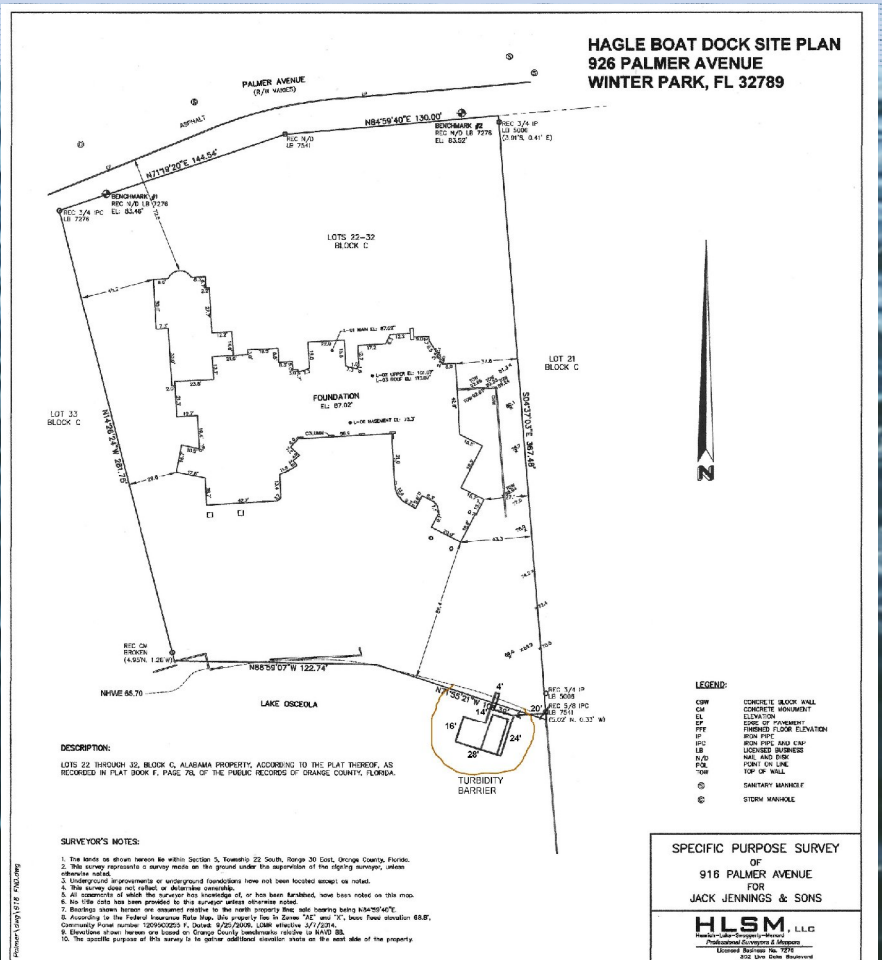
Photos



Photos

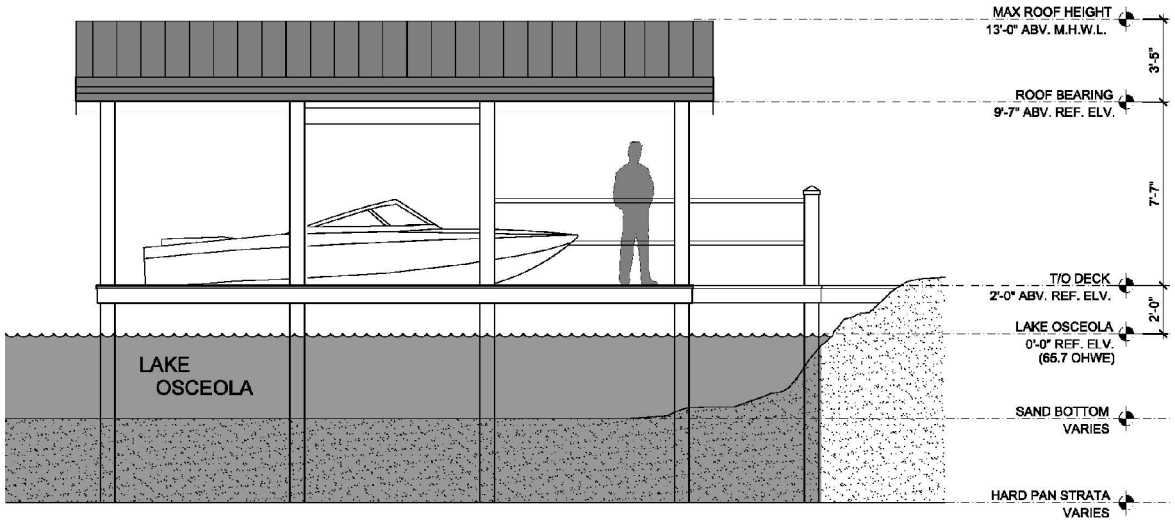
Photos

Survey

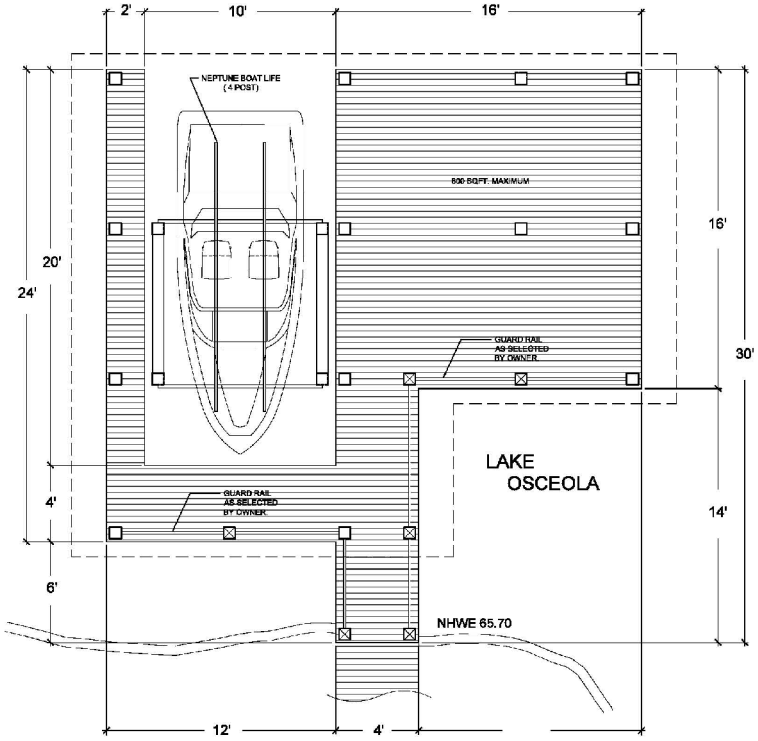

HAGLE BOAT DOCK SITE PLAN
926 PALMER AVENUE
WINTER PARK, FL 32789
PALMER AVENUE
(R/W VARIES)
ASPHALT
N84°59'40"E 130.00'
N27°19'20"E 144.54'
BENCHMARK #1
BENCHMARK #2
LOTS 22-32
BLOCK C
LOT 21
BLOCK C
LOT 33
BLOCK C
FOUNDATION
EL. 87.02'
SILLCREST MASONRY
SANITARY SEWER
N
N85°55'21"W 14.36'
N85°59'07"W 122.74'
NHWE 66.70
LAKE OSCEOLA
16'
24'
28'
20'
TURBIDITY
BARRIER
DESCRIPTION:
LOTS 22 THROUGH 32, BLOCK C, ALABAMA PROPERTY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK F, PAGE 78, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.
SURVEYOR'S NOTES:
1. The lands as shown hereon lie within Section 5, Township 22 South, Range 30 East, Orange County, Florida.
2. This survey represents a survey made on the ground under the supervision of the signing surveyor, unless otherwise noted.
3. Underground improvements or underground foundations have not been located except as noted.
4. This survey does not reflect or determine ownership.
5. All easements of which the surveyor has knowledge of, or has been furnished, have been noted on this map.
6. No title data has been provided to this surveyor unless otherwise noted.
7. Bearings shown hereon are assumed relative to the north property line; said bearing being N84°59'40"E.
8. According to the Federal Insurance Rate Map, this property lies in Zones "AE" and "X", base flood elevation 68.8', Community Panel number 12095C0253 F, Dated: 9/25/2009, LOMR effective 3/7/2014.
9. Elevations shown hereon are based on Orange County benchmarks relative to NAVD 88.
10. The specific purpose of this survey is to gather additional elevation shots on the east side of the property.
LEGEND:
CBW CONCRETE BLOCK WALL
CM CONCRETE MONUMENT
EL ELEVATION
EP EDGE OF PAVEMENT
FFE FINISHED FLOOR ELEVATION
IP IRON PIPE
IPC IRON PIPE AND CAP
LB LICENSED BUSINESS
N/D NAIL AND DISK
POL POINT ON LINE
TOW TOP OF WALL
SANITARY MANHOLE
STORM MANHOLE
SPECIFIC PURPOSE SURVEY
OF
916 PALMER AVENUE
FOR
JACK JENNINGS & SONS
HLSM, LLC

Plans

HAGLE BOAT DOCK ELEVATION - 926 PALMER AVENUE, WINTER PARK, FL 32789



HAGLE BOAT DOCK PLAN VIEW
926 PALMER AVENUE, WINTER PARK, FL 32789



Lakes & Waterways Board

agenda item

item type Public Hearings (Public participation and comment on these matters must be in-person.)	meeting date March 14, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Shoreline Application Permit (SAP-2022-0021) 926 Palmer Ave

motion / recommendation

background

alternatives / other considerations

fiscal impact

ATTACHMENTS:

SAP-2022-0021

LAKE SHORELINE
Seawall/ Revetment

SAP-2022-0021
926 Palmer Ave

- Applicant: Sharon & Marc Hagel
- Contractor: Albert Cichra Building
- Structure: Seawall and Riprap
- New/Existing: Existing
- Waterbody: Osceola

Parameters

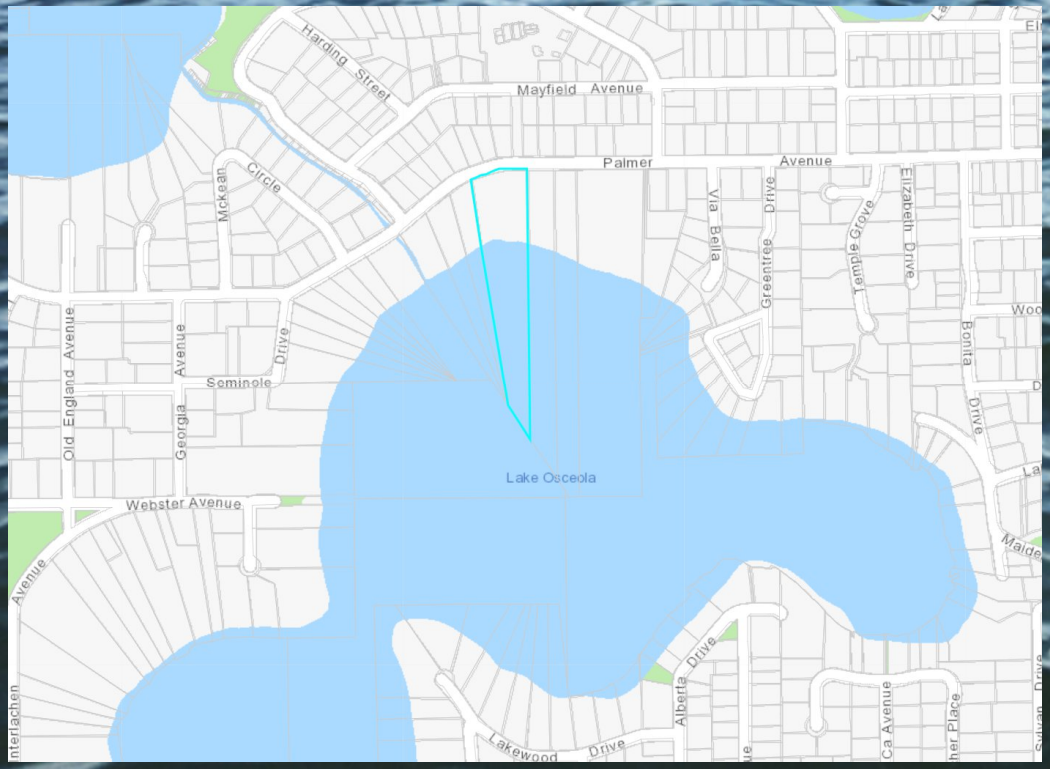
Parameter	Proposed	Allowed	Variance Req.?
Length (ft)	125	N/A	N/A
Slope (Horizontal:Vertical)	2:1	2:1 min	No
Material	Natural Stone Riprap in front of Vinyl Sheet Pile	N/A	N/A
Existing Erosion Problem (Yes/No)	No	Must have existing erosion problem	N/A
Meet Vegetation Criteria?	Issued SAP-2022-0015 includes revegetation plan	50% may be cleared	N/A

Staff Recommendation: Denial

Reviewed by: Joey Cordell and Jake Allman

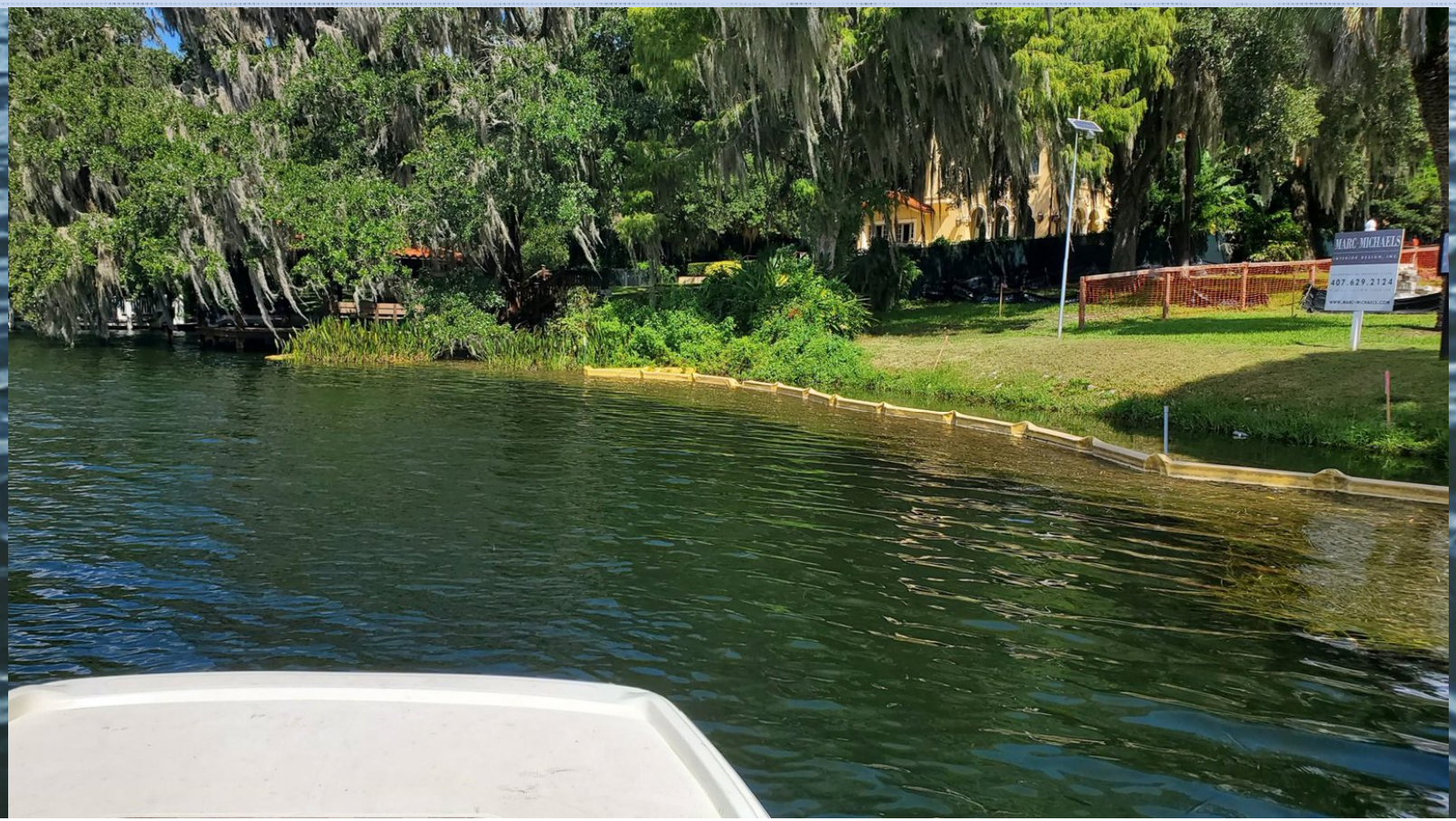
Map View

Basemap



Aerial View

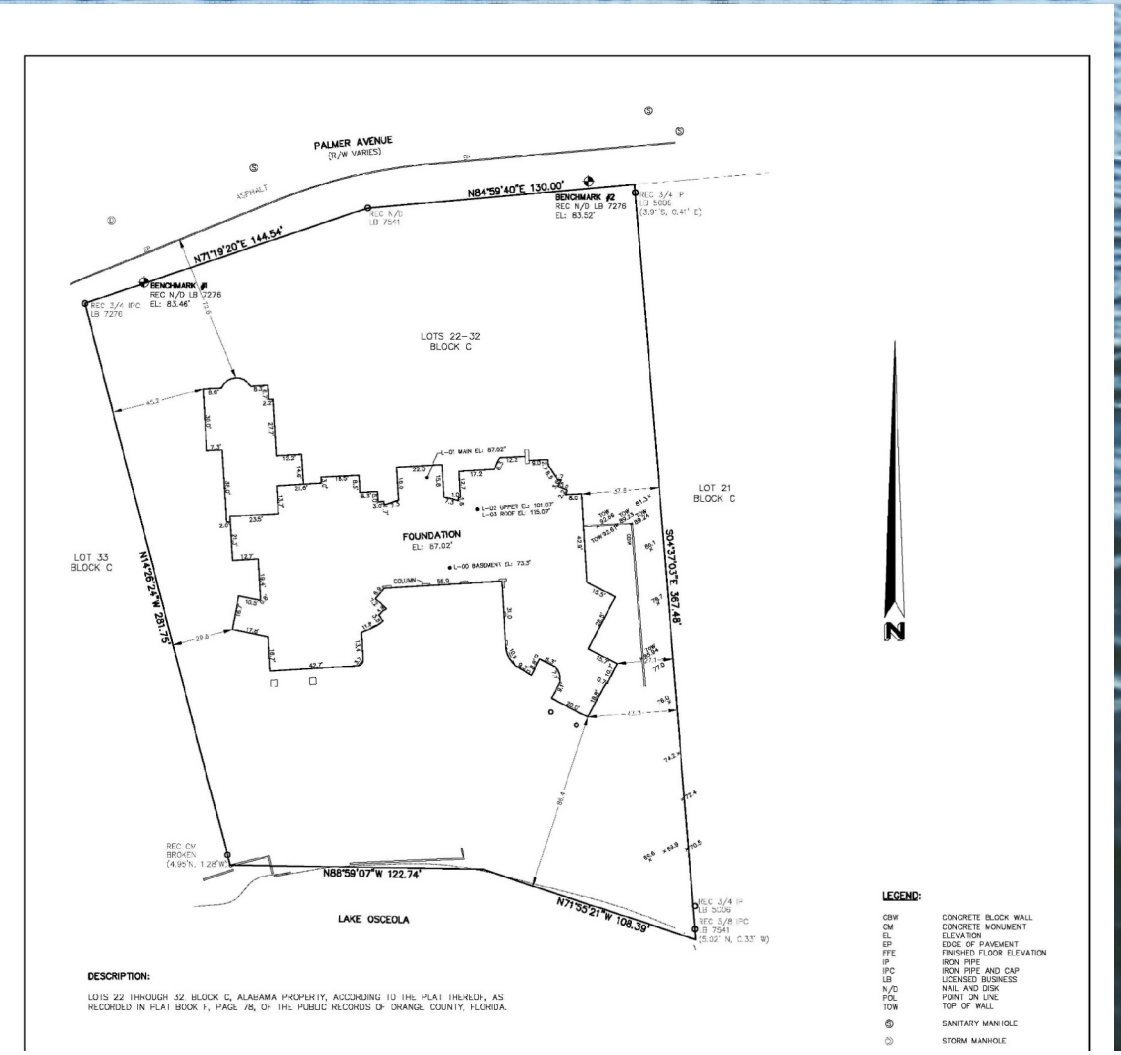
Photos



Photos

Photos

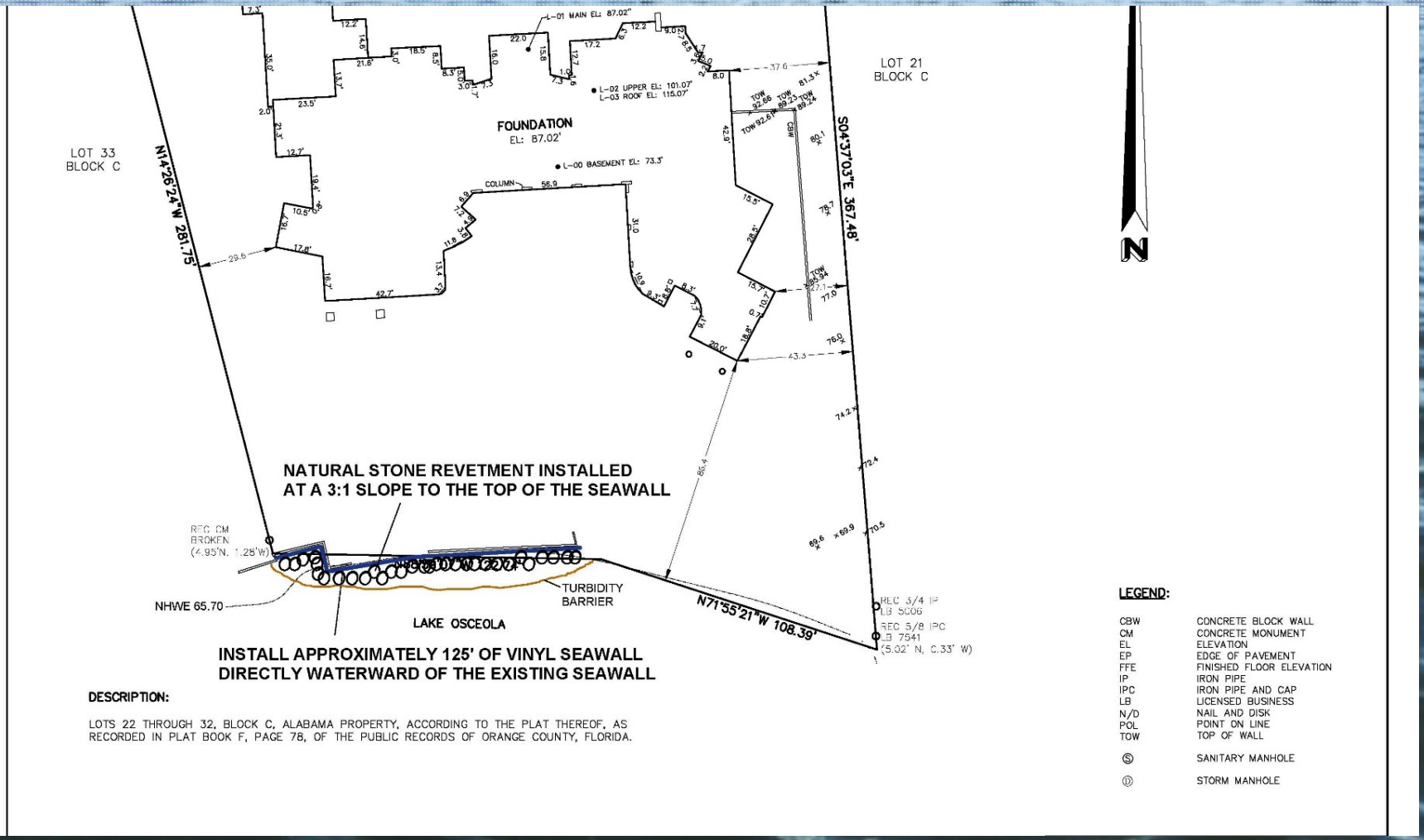
Survey



DESCRIPTION:

LOTS 22 THROUGH 32 BLOCK C, ALABAMA HYDRAULIC, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK F, PAGE 78, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

Aerial View



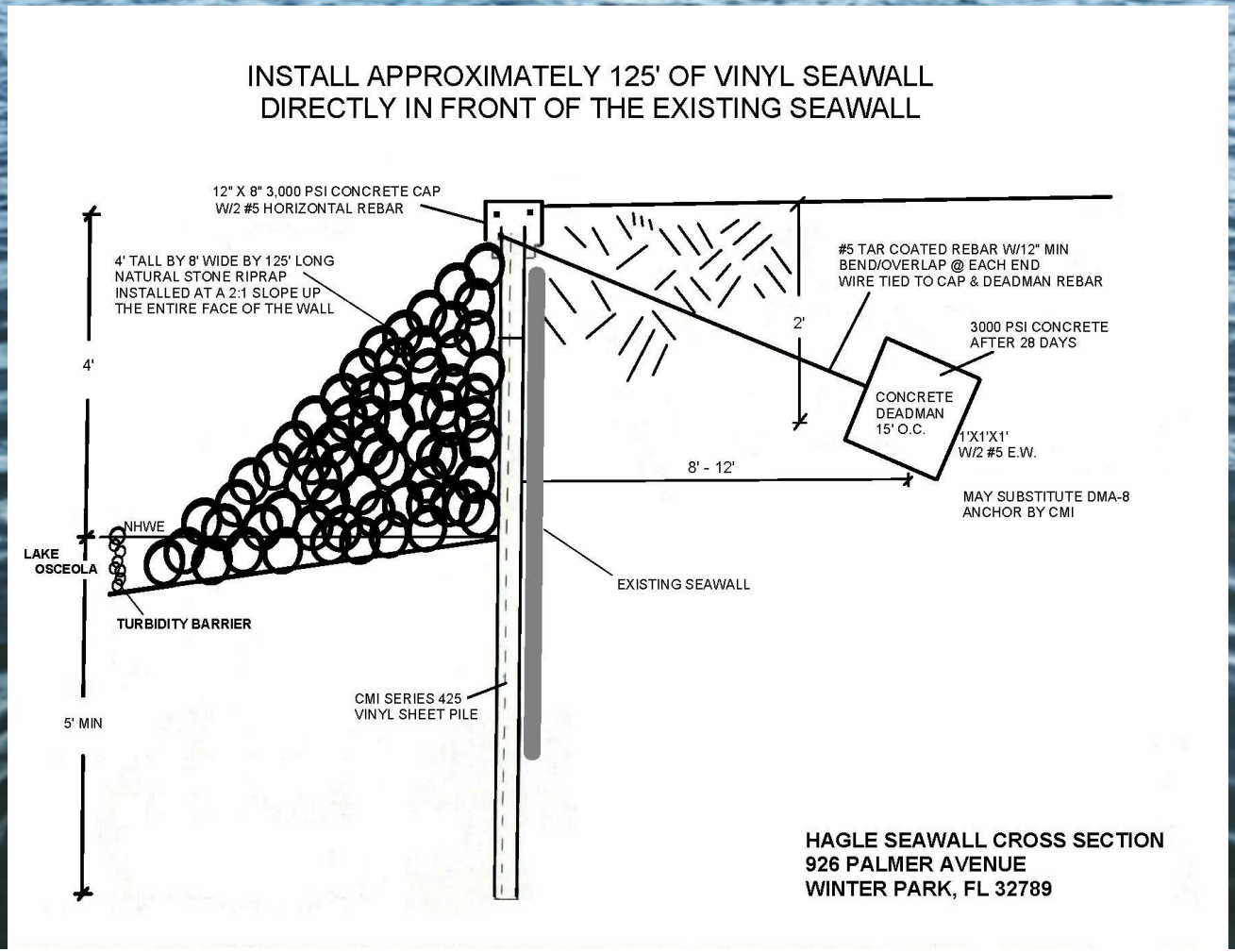
DESCRIPTION:

LOTS 22 THROUGH 32, BLOCK C, ALABAMA PROPERTY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK F, PAGE 78, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

LEGEND:

CBW	CONCRETE BLOCK WALL
CM	CONCRETE MONUMENT
EL	ELEVATION
EP	EDGE OF PAVEMENT
FFE	FINISHED FLOOR ELEVATION
IP	IRON PIPE
IPC	IRON PIPE AND CAP
LB	LICENSED BUSINESS
N/D	NAIL AND DISK
POL	POINT ON LINE
TOW	TOP OF WALL
Ⓢ	SANITARY MANHOLE
Ⓓ	STORM MANHOLE

Side View


INSTALL APPROXIMATELY 125' OF VINYL SEAWALL
DIRECTLY IN FRONT OF THE EXISTING SEAWALL
12" X 8" 3,000 PSI CONCRETE CAP
W/2 #5 HORIZONTAL REBAR
4' TALL BY 8' WIDE BY 125' LONG
NATURAL STONE RIPRAP
INSTALLED AT A 2:1 SLOPE UP
THE ENTIRE FACE OF THE WALL
#5 TAR COATED REBAR W/12" MIN
BEND/OVERLAP @ EACH END
WIRE TIED TO CAP & DEADMAN REBAR
2'
3000 PSI CONCRETE
AFTER 28 DAYS
4'
CONCRETE
DEADMAN
15' O.C.
1'X1'X1'
W/2 #5 E.W.
8' - 12'
MAY SUBSTITUTE DMA-8
ANCHOR BY CMI
NHWE
LAKE
OSCEOLA
EXISTING SEAWALL
TURBIDITY BARRIER
CMI SERIES 425
VINYL SHEET PILE
5' MIN
HAGLE SEAWALL CROSS SECTION
926 PALMER AVENUE
WINTER PARK, FL 32789

Lakes & Waterways Board agenda item

item type Action Items	meeting date March 14, 2023
prepared by Jeffrey Briggs	approved by
board approval	
strategic objective	

subject

REQUEST FOR A RECOMMENDATION ON: AN ORDINANCE OF THE CITY OF WINTER PARK, FLORIDA AMENDING CHAPTER 58, "LAND DEVELOPMENT CODE", ARTICLE III, "ZONING REGULATIONS" SECTION 58-87 "LAKEFRONT LOTS, CANALFRONT LOTS, STREAMFRONT LOTS, REPEALING THE REGULATIONS ON BOATHOUSES AND DOCKS AND AMENDING CHAPTER 114 "WATERWAYS" TO INCORPORATE AND UPDATE THE REGULATIONS CONCERNING DOCKS AND BOATHOUSES.

motion / recommendation

Staff recommendation is for approval.

background

At a previous meeting of the Lakes and Waterways Board, the planning staff explained the action to move the authority for variances on lakes, in connection with a request for a dock or boathouse, from the Board of Zoning Adjustment to the Lakes and Waterways Board. This eliminated the duplication where an applicant had to go to two city boards for the same action and it provided more comprehensive authority for the Lakes and Waterways Board when reviewing variances as part of your authority to approve docks and boathouses on the lakes.

This ordinance only contains the dock/boathouse rules that directly affect the Lakes and Waterways Board. In this ordinance, everything is crossed out that is being deleted from the Zoning Code and everything is underlined, as it is being added to the Waterways Code. That gives you the ability to compare the 'old' and the 'new', much more easily.

Since the previous discussion the staff has added a new Section (a) (2) to the ordinance. Staff took the submission requirements from the Orange County Code and put them into this ordinance so that it would be clear what documents need to be submitted for an application going to the Lakes and Waterways Board. That includes subsection (d) requiring the plan to show the projected lot lines and the last subsection (j) where the affected neighbor's consent letter is needed for variances to setbacks, height or size of structures. In the Orange County Code, consent from a neighbor s needed, only if there

is a variance requested. But the revised draft asks applicants to seek a letter of consent in all cases.

Staff also took from the Orange County ordinance the section (c) on page 8 regarding maintenance. That has been a frustration for Code Enforcement in not having a specific code for these structures on the occasions when we have a dilapidated boathouse.

alternatives / other considerations

fiscal impact

ATTACHMENTS:
Ordinance Updating Lakefront Zoning Regs_Boathouses

ORDINANCE ___-23

AN ORDINANCE OF THE CITY OF WINTER PARK, FLORIDA AMENDING CHAPTER 58, “LAND DEVELOPMENT CODE”, ARTICLE III, “ZONING REGULATIONS” SECTION 58-87 “LAKEFRONT LOTS, CANALFRONT LOTS, STREAMFRONT LOTS, REPEALING THE REGULATIONS ON BOATHOUSES AND DOCKS AND AMENDING CHAPTER 114 “WATERWAYS” TO INCORPORATE AND UPDATE THE REGULATIONS CONCERNING DOCKS AND BOATHOUSES, PROVIDING FOR CODIFICATION, SEVERABILITY, CONFLICTS AND AN EFFECTIVE DATE.

WHEREAS, the City Commission of the City of Winter Park deems it necessary for the purpose of providing environmental protections for the City in the management of construction on waterfront properties on lakes, canals and streams to clarify the authority and requirements of the appointed boards having jurisdiction in the review of waterfront construction and of docks, boathouses and gazebos and in furtherance of the protection of due process and the general welfare of the City as set forth in this Ordinance.

WHEREAS, the City Commission hereby finds that this Ordinance serves a legitimate government purpose and is in the best interests of the public health, safety, and welfare of the citizens of Winter Park, Florida and is intended to promote, enable and facilitate economic competition;

NOW THEREFORE, BE IT ENACTED by the City Commission of the City of Winter Park, Florida, after due notice and public hearing, that:

SECTION 1. That Chapter 58 “Land Development Code”, Article III "Zoning Regulations, Section 58-87 “Lakefront lots, canalfront lots, streamfront lots, boathouses and docks” of the City of Winter Park Land Development Code is hereby amended as shown below to repeal the regulations for docks and boathouses in order to transfer such regulations as may be amended to Chapter 114 “Waterways”. (~~stricken through~~ language are deletions):

- ARTICLE III ZONING REGULATIONS.
- Sec. 58-87. - Lakefront lots, canalfront lots, streamfront lots, boathouses and ~~docks~~ other waterfront properties.

~~(c) *Docks and boathouses.* The following minimum or maximum standards shall apply to all construction or renovation of docks and boathouses:~~

~~(1) Before a building permit is issued, the plans for docks and boathouses shall be approved by the lakes and waterways board after review of comments from city staff and notification of the adjacent lakefront property owners.~~

~~(2) The total area of docks and boathouses built at the water's edge over land and water shall not exceed 600 square feet. In the case of canalfront lots (other than~~

~~boathouse lots on canals as set forth in subsection (f) hereafter), the maximum total area of docks, boathouses, decks, stairs and any other attachments shall be based on the length of the canal frontage as follows:~~

~~a. Seventy-five feet or less of frontage, 450 sq. ft.~~
~~b. Seventy-six feet to 100 feet of frontage, 500 sq. ft.~~
~~c. Over 100 feet of frontage, 550 sq. ft.~~
~~d. The maximum width of canal boathouses shall be 20 feet.~~

~~(3) All new docks and boathouses shall be constructed ten feet from a side lot line. This side setback can be reduced to five feet if written approval is presented from the adjacent property owners.~~

~~(4) All new docks and boathouses shall not extend over 30 feet into the water from the elevations specified in this section. However, on Lake Killarney the maximum distance may be 50 feet.~~

~~(5) The highest point of a boathouse or gazebo roof or any railing shall not exceed 11 feet and the roofs must be pitched so as to eliminate flat roofs and use of such areas as sundecks. The height shall be measured from the surface of the dock or floor to the highest point of the roof or railing. In addition, the surface of any dock, sundeck or floor of any boathouse, gazebo, etc., shall not be more than two feet above the elevations specified in this subsection.~~

~~(6) In order that all docks or boathouses be utilized only for boating and other recreational activities and not as living space, there shall be no bathrooms or cooking facilities permitted in them, nor as an improvement to any existing boathouse. There also shall not be any enclosed rooms over water except for storage rooms limited in size to a maximum of 80 square feet.~~

~~(7) Only one boathouse shall be permitted for each lakefront property owner. In the case of common ownership of lakefront property such as in a condominium arrangement or property owned by a subdivision, there shall only be one boathouse permitted.~~

~~(8) The sale or lease of a portion of lakefront after January 1, 1980, shall be construed as a subdivision and shall not enable the owners to make application for a dock and boathouse unless that subdivision has received the approval of the city commission.~~

~~(9) Canal boathouses shall be located so as not to interfere with navigation and to result in the minimum loss of existing large oak, pine or cypress trees. Electric service shall be provided via underground wiring. On lots that are divided by a public street, landscape buffering shall be required to substantially cover 50 percent of the structure as viewed from the street. Boathouses shall only be painted or have exterior covering of a color that blends in with and does not~~

detract from the natural surroundings. Off-street parking areas shall remain without asphalt, concrete, brick, gravel, grass paver or other improved surface.

(10) As a condition for a permit to build or repair any lakefront dock or boathouse, the lakefront water area along shorelines that do not meet the vegetation standards of subsection 114-6(a) of this Code shall be required to be planted so that no more than 50 feet, or 50 percent (whichever is less) of the shoreline remains clear of vegetation.

(f) *Boathouse lots on canals.* The boathouse lots which exist along the canals interconnecting the lakes within the city were platted and accepted by the city under the premise that these lots would serve as lake access for the residents of that subdivision. As such, the purpose and intention of these boathouse lots is to serve as accessory lots to the main residential properties within that subdivision. In accordance with the policies contained within the comprehensive plan, the following regulations shall apply:

(1) The buildability and use of all canal boathouse lots, which are determined to be accessory lots, shall be restricted to the owners of real property within the subdivision in which these accessory boathouse lots were platted.

(2) Canal boathouse lots which are held January 1, 1981, by property owners residing outside of the subdivision for which they are platted shall be nonconforming boathouse lots which may still be used for constructing a boathouse and for lake access. However, any canal boathouse lots owned by real property owners on January 1, 1981, in the subdivision for which they were platted, shall only be buildable and used to serve the lake access needs of residents of that subdivision.

(3) Minimum lot widths shall be 50 feet.

(4) Canal boathouses shall be constructed a minimum of five feet from side lot line. There shall be no front setback.

(5) The highest point of a canal boathouse shall be no more than ten feet above the ordinary high-water elevation of the closest lake as detailed in this section.

(6) Canal boathouses shall not exceed 400 square feet in size for all areas of boathouses, stairs, and decking.

(7) Canal boathouses shall be located so as not to interfere with navigation and to result in the minimum of loss of existing large oak, pine or cypress trees. Electric service shall be provided via underground wiring. Landscape buffering shall be required to substantially cover 50 percent of the structure as viewed from the street. Boathouses shall only be painted or have exterior covering of a color that blends in with and does not detract from the natural surroundings. Off-street

~~parking areas shall remain without asphalt, concrete, brick, gravel, grass paver or other improved surface.~~

SECTION 2. That Chapter 114 “Waterways”, is hereby amended by establishing a new Section 114-31 in order to transfer the existing regulation of boathouse and docks from the Chapter 58, “Zoning Regulations” to the Chapter 114, “Waterways” Section 114-31 as shown below as amended. (underlined language are additions; ~~stricken through~~ language are deletions; subsections not included are not being modified):

Sec. 114-31 – Regulations for boathouses, docks and other waterfront structures.

(a) *Boathouses, docks and other waterfront structures.* It is the intent of this section to insure that boathouses, docks, gazebos and any other structures on the waterfront of properties including canalfront lots, lakefront lots and streamfront lots are constructed or placed such that no boating hazards will be created, that views of water from adjoining waterfront properties will not be unduly impaired; that existing trees shall be preserved to the degree reasonably possible and that the appearance of the property and the shore when viewed from the water will be kept as natural as reasonably possible. The city's lakes, canals and streams are among the city's greatest assets, and it is in the public interest to require that their aesthetic appeal. The following minimum or maximum standards and procedures shall apply to all construction or renovation of boathouses, docks and other waterfront structures.

(1) Board approval required: Before a building permit is issued, the plans for boathouses, docks and any other waterfront structures shall be approved by either the Lakes and Waterways Board or Lake Killarney Board, pursuant to their jurisdictions. This shall be done at a public hearing after review of comments from city staff and notification of the adjacent waterfront property owners. Applicants are encouraged to provide plans to the adjacent waterfront neighbors in order for them to provide consent or objection to such applications. However, review and approval of boathouses, docks and gazebos shall not be required if the structure is replacing an existing boathouse, dock or gazebo and is in the same location and is meeting the code requirements set forth in this section. The review and approval by the Lakes and Waterways Board or Lake Killarney Board is only required when variances are requested or when there is not an existing boathouse, dock or gazebo on the property/water or when the location of the boathouse, dock or gazebo is being changed by more than five feet from the current location.

(2) Application submission requirements: Applications for docks, boathouses gazebos or any other construction over the water must contain the following information and references thereto of “dock” shall also include boathouses, gazebos and any other construction over the water:

(a) The original signature(s) of the property owner(s) of the upland portion of the parcel where the dock is to be constructed;

(b) The original signature(s) of the applicant(s), on an application form and payment of any fees, as provided for by the city, and if the applicant is not the property owner, an authorization to apply on their behalf;

(c) Satisfactory evidence of title such as an instrument or property appraiser information indicating ownership extends to the shoreline or legal permission to construct or modify a dock and use of the submerged lands;

(c) A copy of a survey of the real property that accurately depicts current conditions including any trees within the shoreline area proposed for the construction or within 15 feet of such construction;

(d) A site plan based upon the survey depicting the exact location of the proposed dock including proposed setbacks as measured on the land and from the projection of the property line in a straight line following the angle of the property line out into the water for the distance of the dock and which includes the following:

1. An arrow indicating the northerly direction of the sketch and scale of the drawing and the name of the water body (surface water) that the dock structure is to be located;

2. The exact distance between the existing shoreline measured from the OHWE to the furthest point where the dock is to be constructed or is currently located;

3. The exact setback distance from the closest property line and projected property line out into the lake to all portions of the dock;

(e) Floor plan, elevations, deck and roof height above OHWE and construction materials of the dock;

(f) The current water depth at the end of the dock and at all proposed mooring locations;

(g) The length of the dock, as measured from the OHWE to the point most waterward of the OHWE;

(h) The location of any conservation easement area or wetland, if applicable, within twenty (20) feet from any portion of the dock;

(i) A description of submerged and emergent vegetation types occurring within the area proposed for construction.; and a mitigation plan offsetting adverse impacts to the vegetative areas if applicable;

(j) If the request includes a variance from any of the terms of this section regarding the setbacks, height or size of a structure, then a signed letter or email of no objection from the abutting or affected shoreline property owner(s). The letter or email of no objection must identify the variance request on the site plan for the proposed dock and a copy of the site plan and site plan must be attached to the letter.

(3) Development standards: The total area of boathouses, docks and any other waterfront structure built over land and/or water shall not exceed six hundred (600) square feet. In the case of canal-front lots (other than the Venetian Canal boathouse lots as set forth in subsection (b) hereafter), the maximum total area of docks, boathouses, decks, stairs and any other attachments shall be based on the length of the canal frontage as follows:

(a) Seventy-five feet or less of frontage, 450 sq. ft.
(b) Seventy-six feet to 100 feet of frontage, 500 sq. ft.
(c) Over 100 feet of frontage, 550 sq. ft.
(d) The maximum width of canal boathouses shall be 20 feet.

(4) All new docks and boathouses shall be constructed no closer than ten (10) feet from a side lot line, as measured on the land and may not extend beyond the property line extended into the lake for that distance of the structure. This side setback can be reduced to five (5) feet if written approval is presented from the adjacent property owners, but may not extend beyond the projected property line extended.

(5) All new docks and boathouses shall not extend over thirty (30) feet into the water from the elevations specified in this article. However, on Lake Killarney the maximum distance may be fifty (50) feet.

(6) The highest point of a boathouse or gazebo roof or any railing shall not exceed eleven (11) feet and the roofs must be pitched with a minimum 2:12 slope on all sides of the peak, so as to eliminate flat roofs and use of such areas as sundecks. The height shall be measured from the surface of the dock or floor to the highest point of the roof or railing. In addition, the surface of any dock, sundeck or floor of any boathouse, gazebo, etc., shall not be more than two (2) feet above the elevations specified in this subsection.

(7) In order that all boathouses or other waterfront structure, be utilized only for boating and other recreational activities and not as living space, there shall be no bathrooms or cooking facilities permitted in them, nor as an improvement to any existing boathouse. There also shall not be any enclosed rooms over water except for storage rooms limited in size to a maximum of eighty (80) square feet.

(8) Only one (1) boathouse shall be permitted for each lakefront or waterfront property owner. In the case of common ownership of lakefront property such as in a

condominium arrangement or property owned by a subdivision, there shall only be one (1) boathouse permitted. However, based upon the relative lake frontage of a multi-family residential the respective board may consider that factor in the consideration of variances.

(9) The sale or lease of any portion of lakefront or waterfront, shall be construed as a subdivision and shall not enable the owners to make application for a dock and boathouse unless that subdivision has received the approval of the City Commission.

(10) Canal boathouses shall be located so as not to interfere with navigation and which result in the minimum loss of existing large oak, pine or cypress trees. Electric service shall be provided via underground wiring. In situations where canal-front or waterfront lots are separated by a public street from the principal structure, landscape buffering shall be required to substantially cover fifty (50%) percent of the structure as viewed from the street. Boathouses shall only be painted or have exterior covering of a color that blends in with and does not detract from the natural surroundings. Off-street parking areas shall remain without asphalt, concrete, brick, gravel, artificial turf, grass paver or other types of impervious surface.

(11) As a condition for a permit to build or repair any lakefront dock or boathouse, the lakefront water area along shorelines that do not meet the vegetation standards of this Code shall be required to be planted so that no more than fifty (50) feet, or fifty (50%) percent (whichever is less) of the shoreline remains clear of vegetation.

(12) The dock or boathouse must not adversely affect the rights of other persons or other property owner's use of, and access to, the surface water or constitute a navigation hazard,

(b) *Boathouse lots on the Venetian Canal and Kraft Gardens.* The Kronenberger subdivision boathouse lots which exist along the Venetian Canal interconnecting Lake Osceola and Lake Maitland or that exist on Lake Maitland adjacent to Kraft Gardens were platted and accepted by the city under the premise that these lots would serve as lake access and accessory uses only for the residents of that subdivision. As such, the purpose and intention of these boathouse lots is to serve as accessory lots to the main residential properties within that subdivision. In accordance with the policies contained within the comprehensive plan, the following regulations shall apply to these properties:

(1) The buildability and use of all canal boathouse lots, which are determined to be accessory lots, shall be restricted to the owners of real property within the Kronenberger subdivision in which these accessory boathouse lots were platted.

(2) Such canal or lake boathouse lots which are held January 1, 1981, by property owners residing outside of the subdivision for which they are platted shall be nonconforming boathouse lots which may still be used for constructing a boathouse and for lake access. However, any such canal or lake boathouse lots owned by real

property owners on January 1, 1981, in the subdivision for which they were platted, shall only be buildable and used to serve the lake access needs of residents of that subdivision.

(3) Minimum lot widths shall be fifty (50) feet.

(4) Canal boathouses shall be constructed a minimum of five (5) feet from side lot line. There shall be no front setback.

(5) The highest point of a canal boathouse shall be no more than ten (10) feet above the ordinary high-water elevation of the closest lake as detailed in this section.

(6) Canal boathouses shall not exceed four hundred (400) square feet in size for all areas of boathouses, stairs, and decking. Lake lots shall be permitted the typical lake dimensions.

(7) Canal boathouses shall be located so as not to interfere with navigation and to result in the minimum of loss of existing large oak, pine or cypress trees. Electric service shall be provided via underground wiring. Landscape buffering shall be required to substantially cover fifty (50%) percent of the structure as viewed from the street. Boathouses shall only be painted or have exterior covering of a color that blends in with and does not detract from the natural surroundings. Off-street parking areas shall remain without asphalt, concrete, brick, gravel, pavers, or other improved surface. The remainder of the boathouse lot shall remain composed entirely of landscape materials which shall preclude gravel, fire pits, patios, sheds, storage bins or any other accessory structure or use, other than landscaped area.

(c) Dock maintenance and repair; minor modifications.

(a) *Dock maintenance and repair.* Docks must be maintained in a safe and useable condition. All maintenance and repair activities must maintain the original design and original footprint of the dock, as approved in the boat dock construction permit. If the design and footprint of the dock will change as a result of a maintenance or repair activity, approval of a minor modification or a new permit will be required. Best management practices must be used during all maintenance and repair activities to prevent soil erosion and water quality violations in the project area.

(b) *Owner's duty to repair, replace, or remove unsafe structures.* The owner(s) of property where a dock is located must promptly repair, replace, or remove a dock structure, or part(s) of the structure, that because of dilapidation, deterioration, decay, faulty construction, is deemed structurally deficient or is in deteriorated sufficient to indicate such as evidenced by rotten or missing wood, pealing paint, missing shingles and the like.

(d) *Retaining walls or seawalls.* The construction of retaining walls within fifteen (15) feet of the ordinary high-water elevation or seawalls shall be done in accordance with the Lakeshore Protection regulations within this Code of Ordinances.

SECTION 3. CODIFICATION. Sections 1 and 2 of this Ordinance shall be incorporated into the City of Winter Park Code of Ordinances.

SECTION 4. SEVERABILITY. The divisions, sections, subsections, paragraphs, sentences, clauses and phrases of this Ordinance are severable, and if any phrase, clause, sentence, paragraph, subsection, section, or division of this Ordinance shall be declared invalid, unconstitutional or unenforceable by the valid judgment or decree of a court of competent jurisdiction, such invalidity, unconstitutionality or unenforceability shall not affect any of the remaining phrases, clauses, sentences, paragraphs, subsections, sections, and divisions of this Ordinance. The City Clerk is given liberal authority to ensure proper codification of this Ordinance, including the right to correct scrivener's errors.

SECTION 5. CONFLICTS. In the event of a conflict between this Ordinance and any other ordinance of the City of Winter Park, this Ordinance shall control to the extent of such conflict.

SECTION 6. EFFECTIVE DATE. This Ordinance shall take effect on April1, 2023 upon its passage and in accordance with Florida law. Any project which has applied for or received an approval from the Lakes and Waterways Board or Lake Killarney Board prior to that date or has submitted an application for an approval by either of those boards prior to that date shall be vested under the previous code related to waterfront lots.

ADOPTED at a regular meeting of the City Commission of the City of Winter Park, Florida held in City Hall, Winter Park, on this ____ day of _____, 2023.

_____
Phillip M. Anderson, Mayor

ATTEST:

_____
Rene Cranis, City Clerk

Lakes & Waterways Board

agenda item

item type Non-Action Items	meeting date March 14, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject
Howell Creek Upper Watershed Flooding Impacts

motion / recommendation

background
Forest Michael is coming to give a presentation.

alternatives / other considerations

fiscal impact

ATTACHMENTS:
Comment to Lakes Bd 3 14 2023 v3

March 14, 2023, to the Lakes & Waterways Board, and the Natural Resources & Sustainability Department, Gloria Eby, Director

REQUEST: "Lakes Sue, Mizell and Virginia Flood Control Master Plan proposal, with flooding correction recommendations"

(Proposal to be presented at the Lakes Board's regular meeting in April, 2023, for approximately 15 minutes plus questions and answers)

Proposal from Michael Planning of Florida

Forest Gray Michael FLLA00007751 Master Planning & Landscape Architecture
michaelplanning@gmail.com 407 340-5051

By Michael Planning of Florida, 2023 All Rights Reserved michaelplanning@gmail.com

March 2023, Lakes & Waterways Board – Lakes Sue & Virginia Flood Control Request

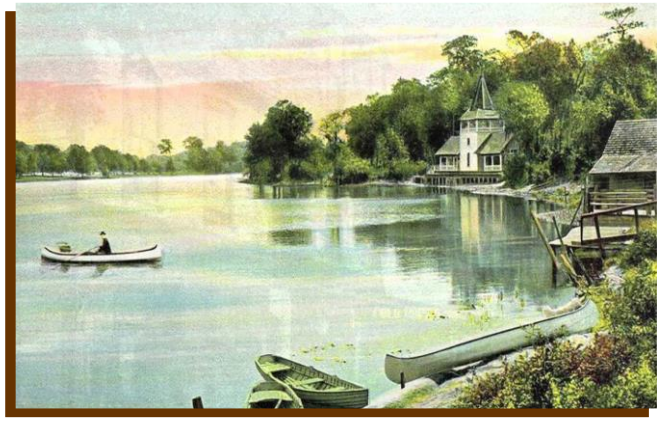
Overview: Michael Planning has conducted an initial flooding analysis and has determined the primary causes for the 2022 flooding of Lakes Sue, Virginia and Mizell, at no charge to the city. The City does not appear to be addressing these primary causes as yet.

Master Plan proposal: the analyzed primary causes require extensive corrective measures. We are prepared to clearly define these correction recommendations for the current FLOOD CONTROL deficiencies, in a master planning document to the City of Winter Park (For Lake Sue East, Virginia and Mizell), and in coordination with the City of Orlando (Lake Sue West portion). A proposal for services by Michael Planning is forthcoming in coordination with the Director.

An overview follows for the proposed Flood Control Planning Areas.

By Michael Planning of Florida, 2023 All Rights Reserved michaelplanning@gmail.com

Michael Planning of Florida's water experience



Winter Park Chain of Lakes, Howell Creek Upper Watershed

Relevant Winter Park, State and Federal water projects in blue

To the, Lakes & Waterways Board, March 14, 2023

MICHAEL PLANNING OF FLORIDA, Forest Gray Michael, michaelplanning@gmail.com
Master Planning and Landscape Architecture, FLDBPR LA0000751, Tel. 407 340-5051

Winter Park experience (Partial listing of record projects and titles):
Winter Park Historical Association, Former President; Commuter Rail Task Force; Central Park Master Plan, 2002, Central Park Rose Garden, 2004; Central Park Train Station, 2007+ SunRail, Amtrak; **Est. Genius Drive Nature Preserve w/Rollins, EMGF; Mead Bot. Garden's Lake Lillian $.5M FDOS FDEP Water Quality grant for Howell Creek Watershed; Mead's landfill mitigation, trails;** Hannibal Square memorials, etc.

State of Florida experience (Partial listing of record sustainable projects and titles):
FDOS, FL Greenways Commission, 9 County Central FL Task Force, Chair, 1994
Central FL Greenway, Gov. Proclamation, 1995; Howell Ck. Blueway Founder, 1985
FDOT, FDEP, Florida Keys Overseas Heritage Trail, Master Plan, 0 - 106.5 miles
FDOT, FDEP, Lake Okeechobee, National Scenic Trail West 70 mi., National Scenic Trail, Herbert Hoover Dike; Everglades Restoration Reserve Southern Flowway, SFWMD

Federal experience (Partial listing of record projects; and sustainable master plans):
USDOD, Department of Defense large communities and projects nationwide
USDOI, National Park Service projects, four parks nationwide, etc.
USDOT, USGSA, other nationwide projects
(Listed for background informational purpose)

March 2023, Lakes & Waterways Board – Lakes Sue & Virginia Flood Control Request

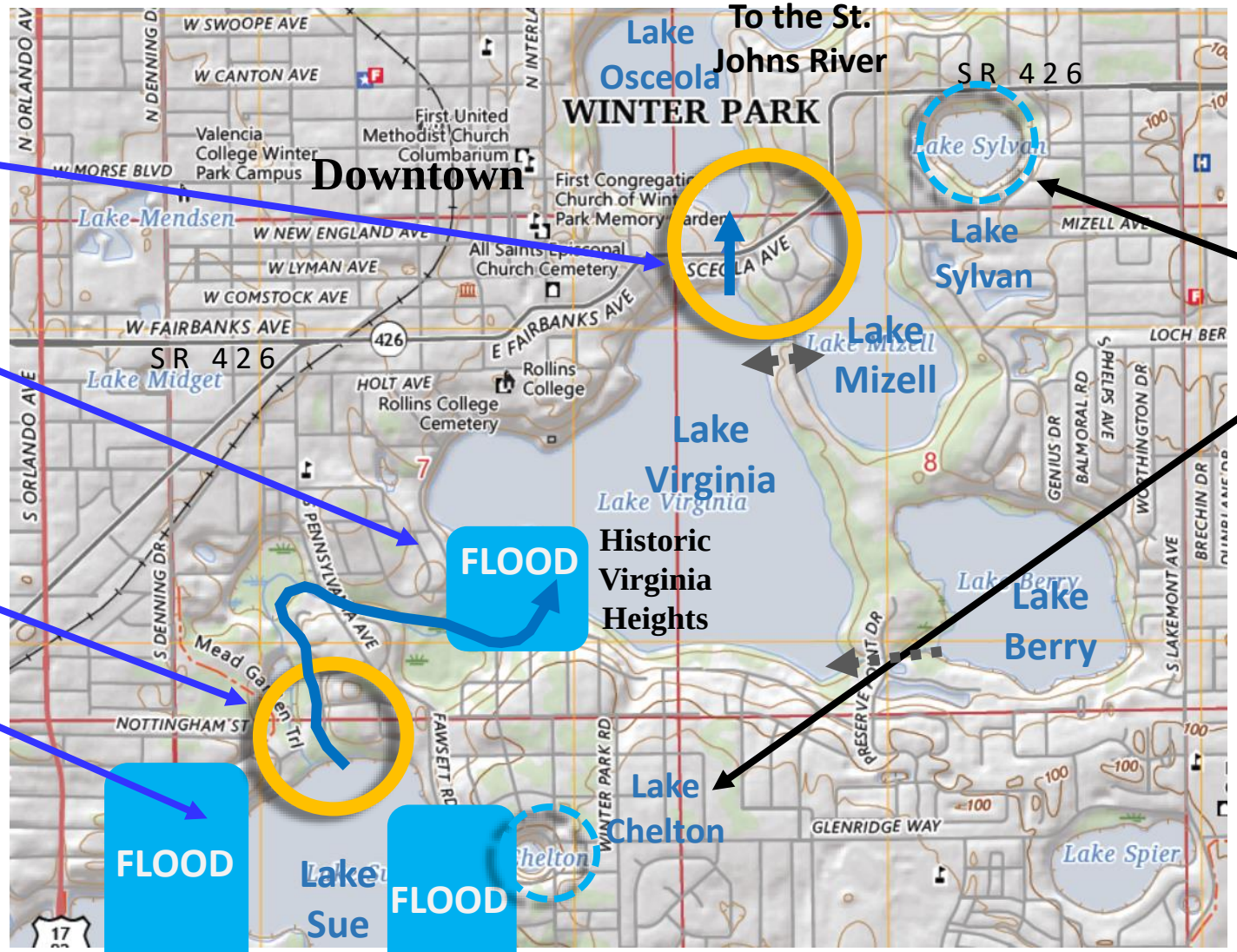
Overview Scope

2022 Lake Virginia Flooding and Blockage

(Virginia Heights flooded homes count is being determined) Blockage analysis is in progress

2022 Lake Sue Flooding and Blockage

(Winter Park and Orlando flooded homes are being determined) The Blockage analysis is in progress



2022 Lakes Sylvan & Chelton flooding

(Both are likely to flow underground to Howell Creek and are not a part of this master plan request)

Stormwater Blockage Study Area

USGS 2022

By Michael Planning of Florida, 2023 All Rights Reserved michaelplanning@gmail.com

2022 Lake Sue Flood Control Plan

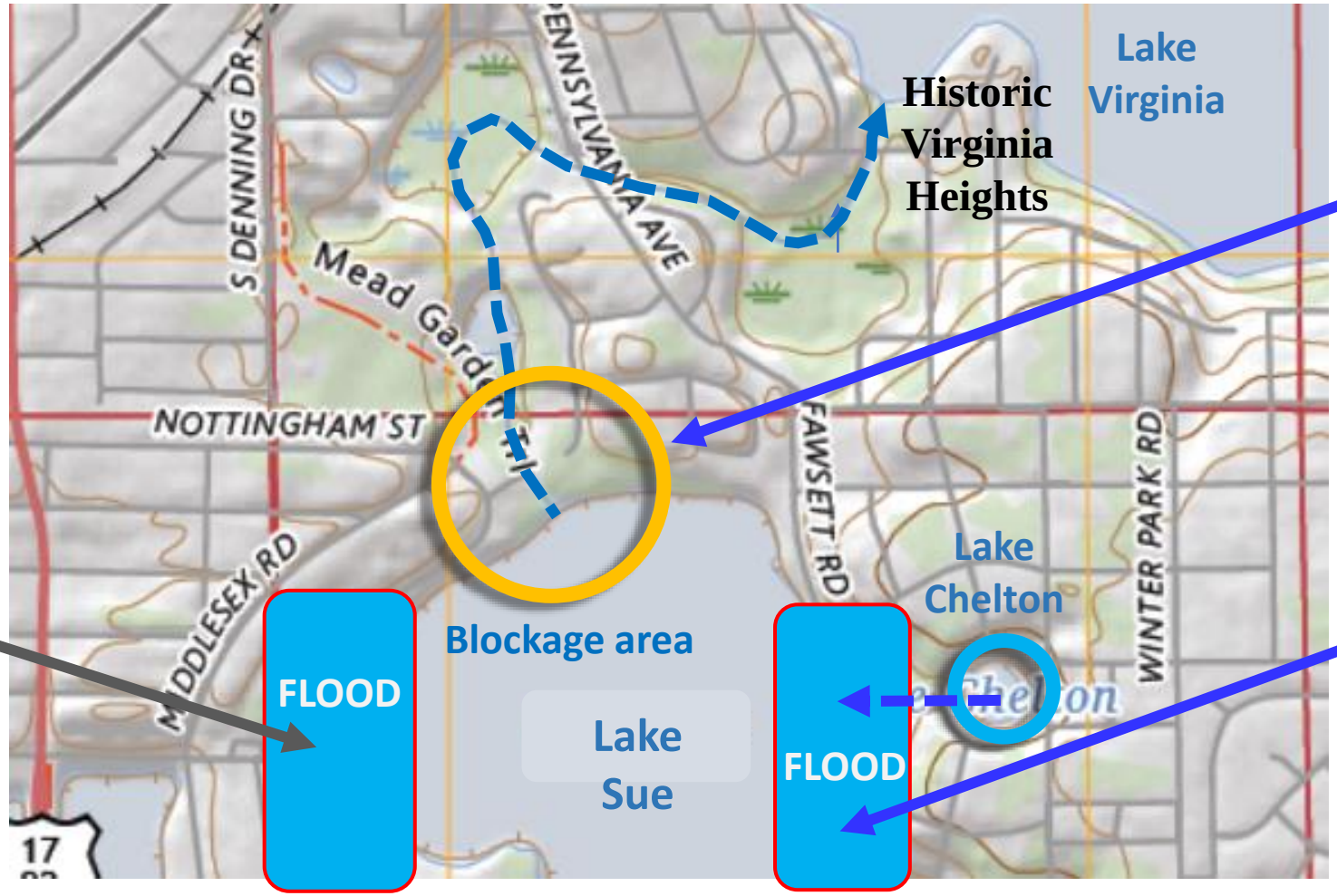
At the north confluence with Howell Creek in Winter Park and Orlando

Michael Planning has conducted an initial flooding analysis

By Michael Planning of Florida, 2023 All Rights Reserved michaelplanning@gmail.com

2022 Lake Sue flooding diagram

(Winter Park and Orlando)



Lake Sue & Howell Creek Blockage Planning Area

2022 Lake Sue cause of the flooding (Orlando & Winter Park)

2022 Lake Sue flooding (City of Orlando)

2022 Lake Sue flooding (Winter Park)

Stormwater Blockage Study Area

USGS 2022

By Michael Planning of Florida, 2023 All Rights Reserved michaelplanning@gmail.com

2022 Lake Sue flooding diagram (At the confluence)

(Winter Park and Orlando)

2023 at the confluence

By Michael Planning of Florida, 2023 All Rights Reserved michaelplanning@gmail.com

2022 Lake Virginia Flood Control Plan

(The north outfall at the historic canal)

Michael Planning has conducted an initial flooding analysis

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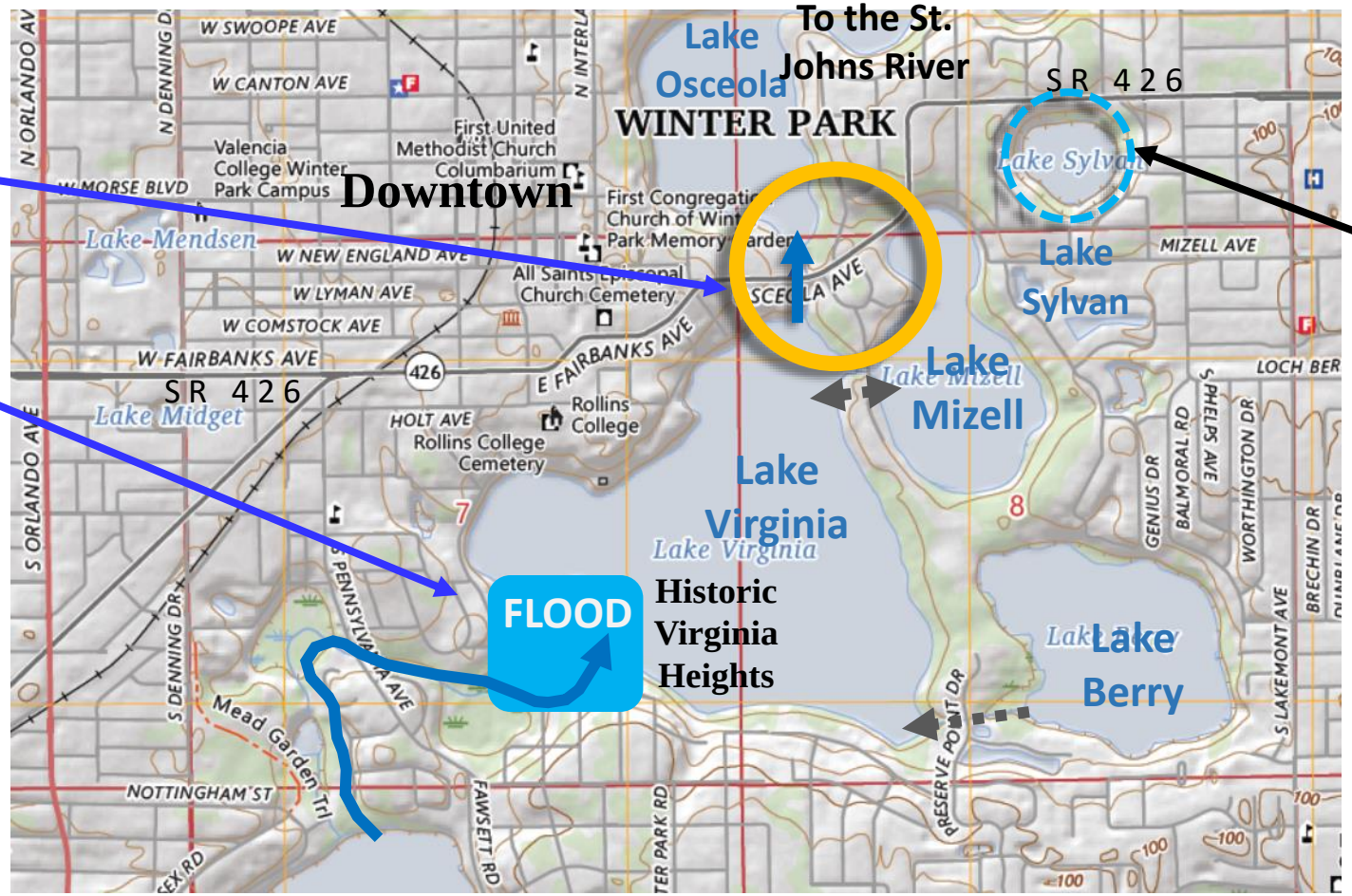
Lake Virginia Overview

2022 Lake Virginia Flooding and Blockage

(Virginia Heights flooded homes count is being determined) Blockage analysis is in progress



USGS 2022

2022 Lake Sylvan flooding

(Likely to flow underground to Howell Creek and is not a part of these findings)

Stormwater Blockage Study Area

By Michael Planning of Florida, 2023 All Rights Reserved michaelplanning@gmail.com

2022 Lake Virginia historic flow condition

(At the north confluence with the historic canal)

Historic Logging Canal ~1870s

Flood Blockage "A" (Insufficient flow causing 2022 flooding of Lake Virginia, flooding Virginia Heights residents)

Howell Creek in 1882 Flood Blockage "B" (The City and FDOT have not addressed this; there is no flow through this filled historic creek which backs up floodwater into Lakes Virginia & Mizell, flooding residents)

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March 2023, Lakes & Waterways Board – Lakes Sue & Virginia Flood Control Request

2022 Conditions

2022 Lake Virginia Blockage "A"

The Historic Logging Canal constructed c 1870s is currently too constricted to carry the 2022 floodwater; the city is dredging it ASAP

2022 Lake Virginia Blockage "B" by FDOT

The Historic Howell Creek was filled and provides no floodwater passage

S R 4 2 6

2023 Water Quality Treatment on SR 426

FDOT provides No WQ for the current 40,000 Vehicles Per Day, polluting Howell Creek

S R 4 2 6

Howell Creek and Lake Virginia Blockage Planning Area

USGS 2022

Stormwater Blockage Study Area

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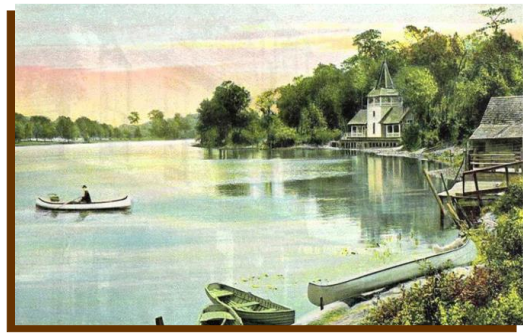
March 2023, Lakes & Waterways Board – Lakes Sue & Virginia Flood Control Request



Winter Park Chain of Lakes and the Howell Creek Upper Watershed

March 14, 2023, *to the* Lakes and Waterways Board, and the Natural Resources & Sustainability Department, Gloria Eby, Director, City of Winter Park

for Forest Michael, Michael Planning of Florida, to prepare a Master Plan proposal to Gloria Eby, Director, for:

REQUEST: "Lakes Sue, Mizell and Virginia Flood Control Master Plan proposal, with flooding correction recommendations"

Proposal to be presented at the Lakes Board's regular meeting in April, 2023, for approximately 15 minutes plus questions and answers

Notes:

1. Another flood of the same volume as the 2022 Flood, or larger, can occur any year in the future until the primary causes of the blockages are corrected.

2. It is likely very important for FEMA understand that the City of Winter Park, and Orlando, are correcting these lake flooding issues.

3. The primary cause of the Virginia Heights flooding is not the narrow width or depth of the historic logging canal outfall, and is manmade.

4. It is important for the city taxpayers to Not be required to pay for the Lake Virginia and Lake Sue flooding corrective measures, since they were not responsible for that primary cause of the 2022 Flood.

By Michael Planning of Florida, 2023 All Rights Reserved michaelplanning@gmail.com

Lakes & Waterways Board

agenda item

item type Staff Updates	meeting date March 14, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject
Winter Park Police Department

motion / recommendation

background

alternatives / other considerations

fiscal impact

Lakes & Waterways Board agenda item

item type Staff Updates	meeting date March 14, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject
Lakes Management

motion / recommendation

background

- Monthly Dock Party Update
- Algae Blooms Update
- Treatments
- Weedoo Update
- FWC Grass Carp
- Boat Permit Update

alternatives / other considerations

fiscal impact

ATTACHMENTS:
Lakes Update 2023.03

Lakes and Waterways Advisory Board

March 2023

Lakes Updates

- Monthly Dock Party – Lake Virginia moved to November with Mizell
- Algae Blooms Update
- Treatments
  - Lake Bell – Full Lake Hydrilla Treatment
- Weedoo - Eelgrass removal on MLK
- FWC Grass carp
- Boat Permit Update

Lakes & Waterways Board agenda item

item type Staff Updates	meeting date March 14, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject
Stormwater Management

motion / recommendation

background

- CIP
- Future Flood Mitigation Considerations
- Dredging Update
- Flood Control Draft

alternatives / other considerations

fiscal impact

ATTACHMENTS:
SW Update 3.23

ATTACHMENTS:
FINAL DRAFT- Lakes and Stormwater Management for Flood Control

Staff Update

Stormwater Management

Stormwater Management – CIP

CITY OF WINTER PARK - STORMWATER CAPITAL IMPROVEMENT PROJECTS UPDATE 2/6/2023

ACCT #	CIP Title & Description	Original Year Funded	Current Balance	Status/Comments
565200	**Drainage Improvements** - Recent years of unusually heavy rainfall events have revealed several substandard drainage conditions in various locations throughout the City.	Annually Funded	$223,702	Several in-house drainage improvements projects to be scheduled for 2022-23, Ward Park ponds pipe construction, Palmer at Old England outfall repair, stormwater outfall dredging, curb implementation.
				1) Palmer at Old England outfall repair - A video inspection to be scheduled to determine the existing condition of the outfall pipe. Design and construction will be scheduled as needed. Estimated cost $20k.
				2) Stormwater Outfall Dredging - The City recently entered a new contract for dredging and is developing a schedule for several stormwater outfalls.
				3) Ward Park ponds construction - Estimated cost $150k. NE and NW Pond excavation and sodding is complete. The piping to be installed in March 2023.
				4) Curb Implementation - Commission approved $50,000 in the City's FY'23 budget. Locations to be determined and coordinated with asphalt resurfacing projects.
565203	**Lk. Bell Weir Outfall Improvements** -	2009	$69,223	Repairs may be required on the Lake Bell outfall weir, will continue to assess the condition in 2023.
565221	**Seminole County Ditch Piping (along Arbor Park Dr)** – Drainage ditch behind the homes along Arbor Park Drive has a shared drainage basin with Seminole County. Funding is provided for the design and construction to pipe the ditch.	2016	$733,395	The Interlocal Agreement was approved by the City Commission on October 13, 2021 and by the Seminole County Commission on December 14, 2021. 60% plans completed and submitted to Seminole County. Process to permit with SJRWMD currently underway.
565205	**Nicolet Ave Stormwater Pond** – complete the design and construction of a stormwater treatment pond on City purchased properties located at 796 & 808 Nicolet Avenue	2023	$200,000	Commission approved $200,000 in the City's FY'23 budget. Project manager to be assigned, project schedule to be developed, best management practice analysis to be performed.
	TOTALS			
	3023406 ACTIVE STORMWATER CIP's		$1,226,319.59	**BALANCE TOTAL**

Future Flood Mitigation Considerations

From City Commission Work Session 1/12/23

- Updating Hurricane Preparedness Plan
- Survey Lowest FFE for Lakefront Properties
- Installing *Smart* Lake Level Gauges
- Additional City-wide Weather Stations
- Lake Level Alterations Policy
- Future CIP Considerations for Lake Interconnects
- Climate & Resiliency Grant

Additional Stormwater Updates

- Venetian and Fern Canal - Bayside Dredging
- Lakes and Stormwater Management for Flood Control Draft Document

City of Winter Park

Lakes and Stormwater Management for Flood Control

Lake Level Alterations

- Current protocol
    a. remove the risers from the drain wells on Lake Killarney
        i. without risers on the drain wells Lake Killarney lowers 0.1-0.2 ft per day
        ii. top of risers average 81.66 ft* top of drain wells 80.0 ft* without risers, weir into Lake Gem 82.7 ft*
    b. remove top weir board on Lake Bell
    c. open valve to the MLK pond drainwell
    d. open gate on the WPRC pond outfall
    e. inspect all drain well intakes maintaining free and clear of debris

- Future protocol
    a. Adopt a policy to lower lake levels based on issued storm forecasts
        i. Cone of projected storm path issued by National Hurricane Center (NHC)
            1. touching Florida as trigger to lower lake levels
    b. For hurricane Ian, NHC issued 5 days in advance of impact date 9/29/22
    c. Florida State of Emergency was declared for hurricane Ian on 9/23/22
    d. Issue lake closure protocol for chain of lakes at elevation 66.1 ft*

Past and future studies and CIP considerations

- The flood elevation in the Winter Park chain of lakes is control by a weir located on the north side of Lake Maitland at Howell Branch Road. The control elevation for the chain of lakes was studied for a LOMR in 2009. The SJRWMD confirmed that the current control elevation of 66.18 ft* was best for all communities upstream and downstream and it was not to be adjusted.
- Consider increasing the volume of the MLK pond and lowering the surrounding neighborhood flood stage
    a. A flood study was performed in the CRA watershed basin by Geosyntec. This study provided four alternatives for increasing volume in the MLK pond
        i. Alt 1 – Exfiltration Basin
            1. Decrease in peak stage: 0.26 ft
            2. Estimated cost: $6,516,021
        ii. Alt 2 – New interconnect to Lake Rose
            1. Decrease in peak stage: 0.05 ft
            2. Estimated cost: $172,378
        iii. Alt 3 – Exfiltration basin and interconnect to Lake Rose
            1. Decrease in peak stage: 0.2 ft
            2. Estimated cost: $2,065,776
        iv. Alt 4 – (COMPLETED) Relocating Killarney interconnect from Beachview Ave to intersection of Morse Blvd and Harper St
            1. Decrease in peak stage: 0.02 ft
            2. Estimated cost: $35,830

    b. Perform study to expand the overall footprint of the pond for more stormwater storage by strategically selecting park areas of lower usage
    c. Consider partnering with private property owners near MLK to expand

- Develop 5-10 year CIPs for lake interconnections- perform hydraulic studies to determine pipes and associated cost
    a. Lake Sylvan to Lake Mizell
    b. Lake Grace to Lake Forest
    c. Lake Chelton to Lake Sue
    d. Lake Tuscany to Lake Temple to Howell Branch Pond
    e. Lake Compton to Lake Spier
- Consider drainage study for Lake Killarney to Lake Gem- weir controlled at 82.0 ft* vs 82.7 ft*, same as the drain well risers
- Follow FS 252.363 provision allowing to adjust/pump lake down during declared state of emergency
    a. Consider purchase of bypass pump(s) including floating intake attachment and suction and discharge hoses
    b. Provide correspondence to SJRWMD advising of all necessary drawdowns
    c. SJRWMD provides authorization upon flood waters reaching 1 foot below lowest FFE

- Section 252.363 of the Florida Statutes provides that upon the declaration of a state of emergency, permits and other authorizations are tolled for the duration of the declaration, and that they may be extended automatically upon the exercise of the notice requirements of Section 252.363(1)(a) for an additional six months. The tolling and extension provisions apply to the expiration of:
    a. development orders issued by a local government
    b. building permits
    c. Florida Department of Environmental Protection or water management district permits issued pursuant to Part IV of Chapter 373, Florida Statutes
- Perform a survey to record lowest FFE for City lakes
- Consider installing auto-read lake level gauges with telemetry services for City lakes
- Consider installing additional weather stations with telemetry services within City limits.

(* All survey elevations provided in this report are based on NAVD 88 Datum)

Inspection and Maintenance Activities

Current

- Inspect each control and outflow structure located on the chain of lakes and all land locked lakes
    a. Inspect all weirs and grass carp barriers including the ones located downstream of lakes Bell, Killarney, Berry and Maitland
    b. Inspect each canal within the chain of lakes and Howell Creek upstream of Lake Virginia and downstream of the Howell Branch weir
    c. Inspect drain well intake structures on Lake Killarney and all land locked lakes (Knowles, Spier, Forest, Midget, as well as the Seminole County drain wells on N. Lakemont Avenue)
    d. Inspect major conveyance systems and high-risk areas (i.e Special Flood Hazzard Area- SFHA)
- Continually update regularly scheduled storm sewer outfall inspection and maintenance activities to ensure optimal performance
- Ensure that regularly scheduled storm sewer maintenance operations are followed in accordance with the NPDES permit requirements

Future

- Develop a revised comprehensive plan for scheduled video inspections of all storm and sanitary sewers
- Ensure contingency plans for alternate street sweeping arrangements if contracted street sweeping does not occur or is inadequate
- Provide advance alert notifications for potential impacts to high-risk areas (prior floods or SFHA)

Replace permanent grass carp barriers with a retractable grass carp barrier

Lakes & Waterways Board

agenda item

item type Board Comments	meeting date March 14, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject

Discussion of Public Comments Received

motion / recommendation

background

alternatives / other considerations

fiscal impact

Lakes & Waterways Board

agenda item

item type Upcoming Agenda Items	meeting date March 14, 2023
prepared by Victoria Tabor	approved by
board approval	
strategic objective	

subject
Discussion of Upcoming Agenda

motion / recommendation

background

alternatives / other considerations

fiscal impact