

# Orlo Vista Flood Mitigation Project Update

Community Meeting – November 15, 2022









### Orlo Vista Flood Mitigation Project Update



#### Webex Meeting Etiquette

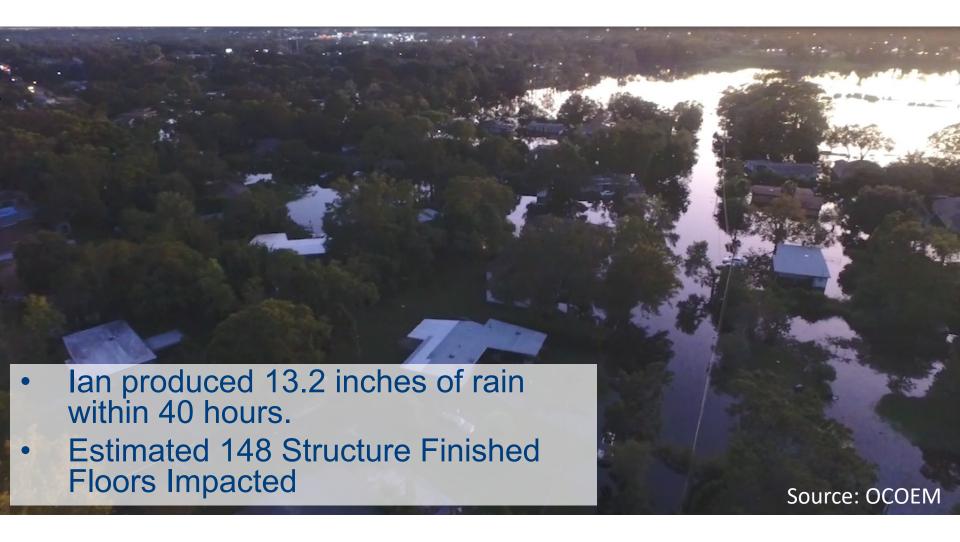
- Microphones will be muted to avoid background noise and interruptions
- Please use the meeting chat feature to ask questions "to everyone"
- Please be respectful of others
- Questions and comments will be addressed after the presentation



## Hurricane Irma – Sep. 11, 2017



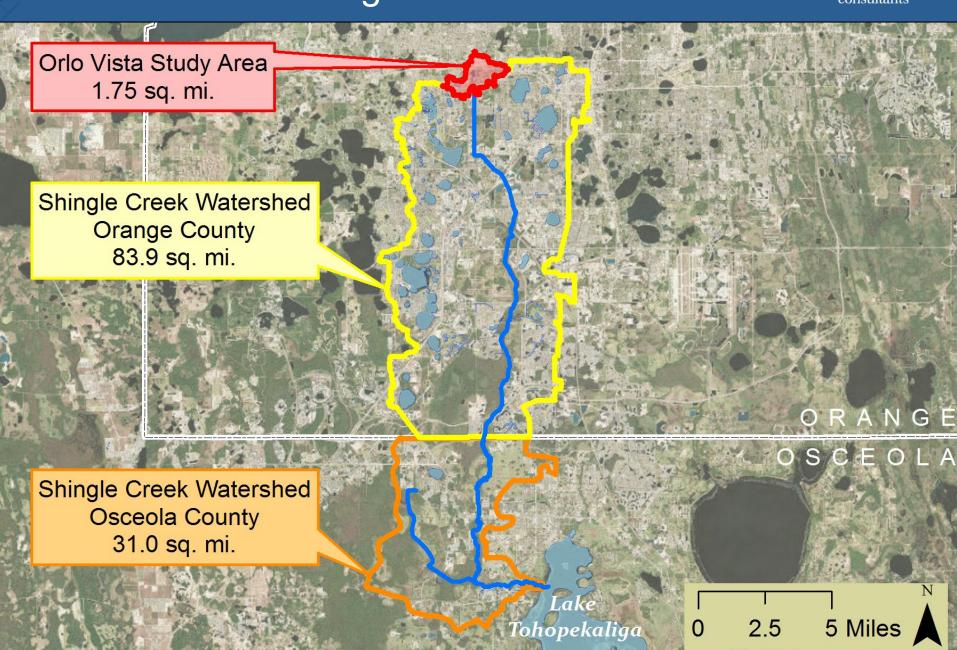




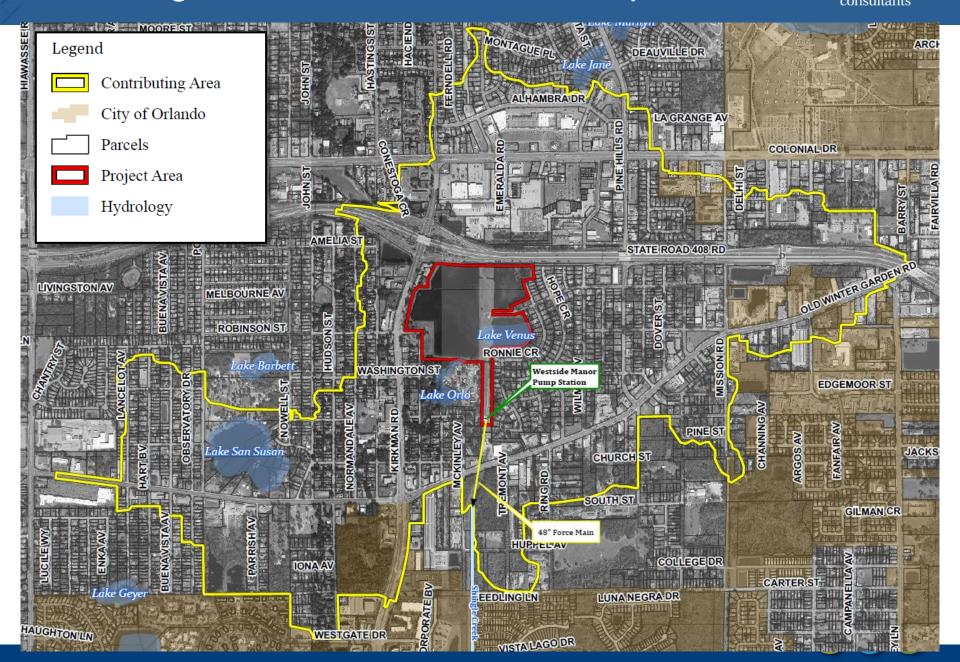




## Orlo Vista & Shingle Creek Watershed



## **Existing Conditions Watershed Map**



## Post Hurricane Irma Work

#### Clog Prevention

- Installed skimmer to reduce floating debris
- Treated floating vegetation and cut back trees
- Repaired intake grate
- Canal sediment cleaning

### Pump Station

- Pumps assessed and in good condition
- Upgrade automatic on/off float system
- Emergency generator maintained regularly

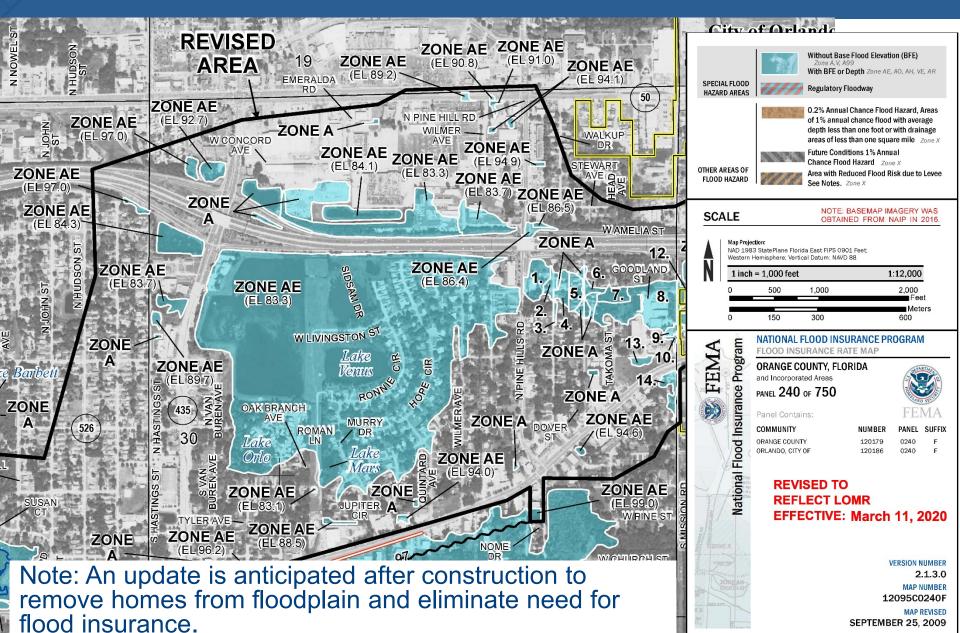
### Pre-Storm Pumping

- Mobile pumps to drawdown ponds
- Flood Warning System
  - Predict evacuation needs





## Flood Insurance Rate Map (FIRM) Update

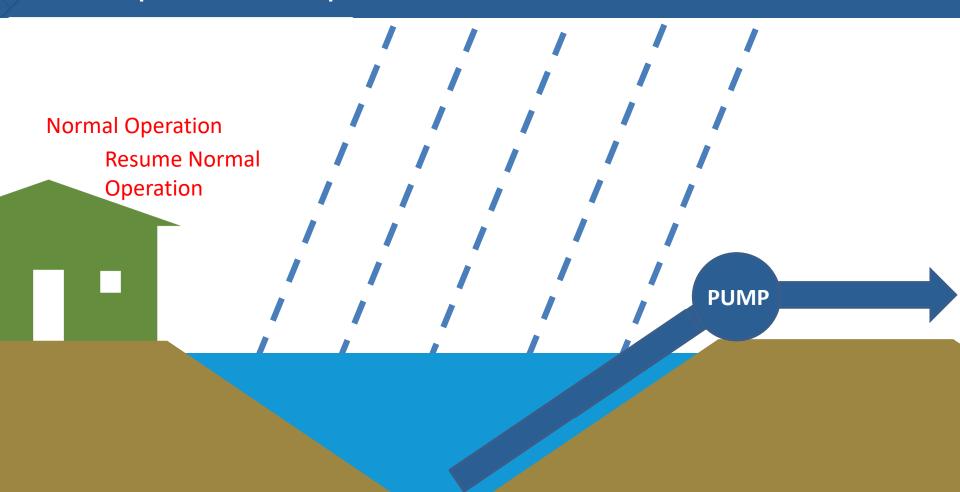


## Vertical Pond Expansion Design



# Proposed Pump Station Control Plan







#### Benefits

- Mitigates structure flooding through 100 year storm (lan was approximately 200 year storm)
- Designed to not displace residents
- Designed to not impact downstream areas

#### Status

- Design & South Florida Water Management District (SFWMD) Permitting Complete
- Florida Department of Emergency Management (FDEM)
   Environmental Assessment Complete
- Rights of Entry Acquired (properties along Ronnie Circle)
- Grant funding approved



### **Project Cost and Funding** – Construction Phase

Geosyntec consultants









Hazard Mitigation Grant Program (HMGP) Community
Development Block
Grant (CDBG)



\$16.7 Million

\$2.5 Million

\$4.3 Million



- Hazard Mitigation Grant Program (HMGP) Funding
  - 75% Federal 25% Local Cost Share
  - HMGP Grant Phasing
    - Phase 1 Engineering Design, \$1.1 Million (complete)
    - Phase 2 Construction, \$23.4 Million
  - \$7.5 Million HMGP Phase 2 Funding Initially Approved in Feb
     2022
  - Additional \$9.2 Million Federal Funding Earmarked in October 2022



### **GRANT FUNDING**



## Hazard Mitigation Grant Program (HMGP) Funding

December 2018 Orange County was granted funding for the Design Phase (Phase I) of the Orlo

Vista Flood Mitigation Project by FEMA.

June 2020 Orange County submitted Phase I final deliverables to FDEM for their review,

evaluation and consideration for funding for Phase II – Construction.

Phase II includes Construction Work, Construction Administration, Construction

Engineering and Inspection (CEI) services to support the construction process

and grant management services.

July 10, 2020 Orange County was informed that in order to complete the Environmental and

Historic Preservation (EHP) review (as part of the final deliverables review), the

project would require an Environmental Assessment (EA).

An EA evaluates the potential direct and indirect environmental impacts to the

Orlo Vista community including Physical, Water, Coastal, Biological, Cultural and

Socioeconomic impacts.

The EA started in July 2020 and it was completed by FDEM in December 2021.





## **GRANT FUNDING**



## Hazard Mitigation Grant Program (HMGP) Funding

February 22, 2022	FDEM informed Orange County that FEMA had awarded Orange County funding for the Construction Phase (Phase II) at a 75% Federal match (\$7.5M) The grant agreement was approved by the BCC on April 2022.
October 13, 2022	Orange County submitted a request to FDEM for a budget increase based on the lowest bid received (\$13M cost overrun).
October 27, 2022	FDEM informed Orange County that FEMA had awarded Orange County additional funding for the Construction Phase (Phase II) at a 71.3% Federal match (\$9.2M in additional funding).



### **GRANT FUNDING**



## Community Development Block Grant (CDBG)

June 2020 Orange County submitted a CDBG-DR grant application to DEO

for funding the 25% "Local Share" portion (or \$2.5M)

February 4, 2022 Orange County received the grant agreement, which was

approved by the BCC in April 2022.



### **BIDDING PROCESS**



Once both grant agreements were approved by the BCC, we initiated the bidding processes.

#### • Construction Engineering Inspection (CEI) Services:

- o May 17, 2022: Orange County issued the Request For Proposals (RFP)
- o May 27, 2022: Pre-Proposal Conference
- o **June 16, 2022**: Receipt of Proposals, no proposals were received.
- o July 28, 2022: New date for Proposals. One proposal was received.
- o August 17, 2022: Procurement Committee
- o **September 27, 2022**: BCC Approval
- October 11, 2022: Kick-off and Negotiations. Currently, Procurement is negotiating prices with Civil/Site Services

#### Construction Services:

- June 13, 2022: Orange County issued the Invitation for Bids (IFB)
- June 21, 2022: Pre-Bid Conference
- o August 18, 2022: Receipt of Bids
- Two bids were received:
  - ✓ Thalle Construction CO., Inc. (8/25/2022) bid of \$21,551,322 (+78%)
  - ✓ Carr & Collier Inc. (8/25/2022): \$23,877,077 (+97%)
- September 13, 2022: Updated Engineer's Cost Estimate of \$19,477,816
- September 16, 2022: Orange County submitted a request for a project budget increase to FEMA-HMGP for \$13.4 Million. This project increase request was prompted by the receipt of construction bids.
- o **October 13, 2022:** A revised request for a project increase was submitted to FEMA.
- o October 26, 2022: FEMA earmarked \$9.2 Million budget increase. Orange County will cover \$4.3 Million.
- o **November 29, 2022:** Contract will be presented to the BCC for approval.

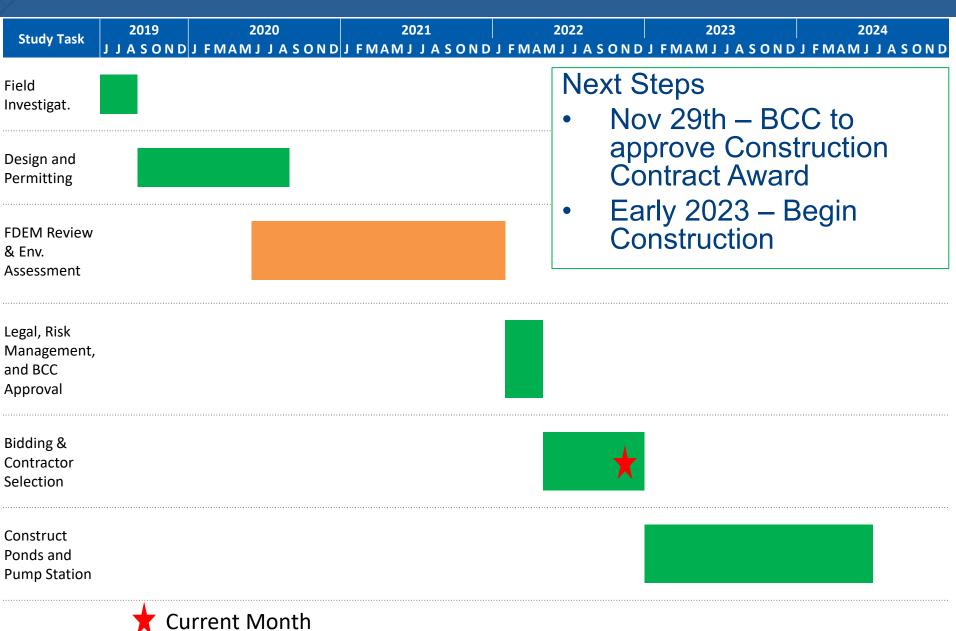
If everything goes as planned, the construction should be starting in early 2023.





## Project Schedule









- Orange County Public Works Stormwater Management Division
  - Mike Drozeck, PE, CFM Stormwater Division Manager
  - Daniel Negron, PE, CFM Chief Engineer
  - Liliana Ramirez, CFM Project Manager
- Geosyntec Team: Orlando, FL
  - Tom Amstadt, PE, CFM Project Manager
  - Mark Ellard, PE, CFM, D.WRE Project Director





- Use Webex Chat to submit questions and comments
- Alternatively email questions to <u>Liliana.Ramirez@ocfl.net</u>





