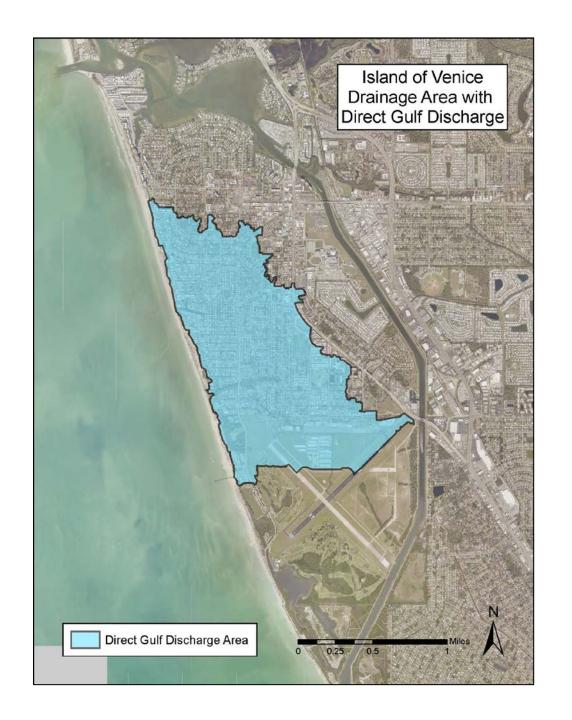
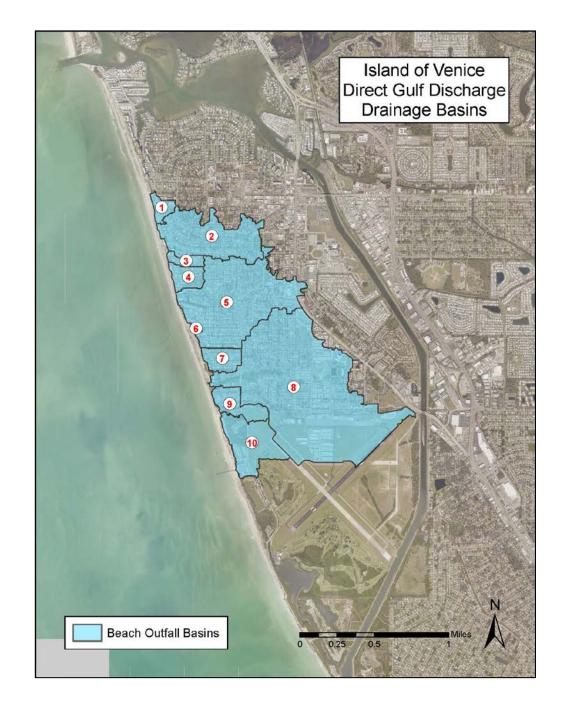
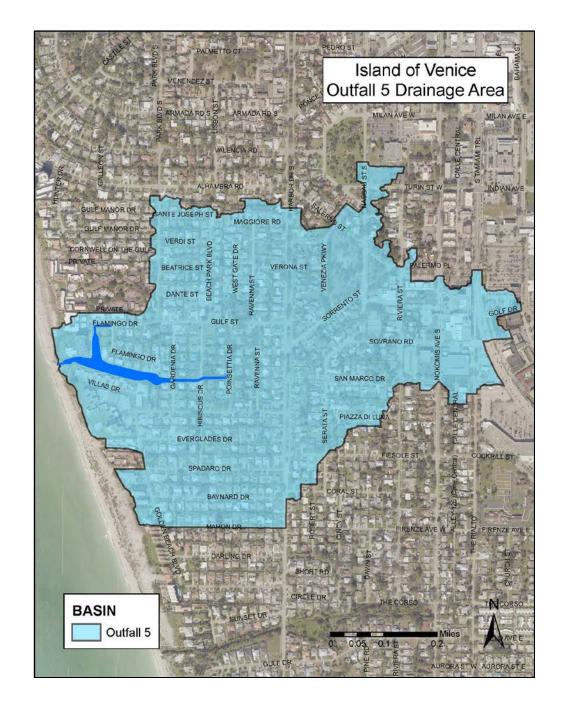
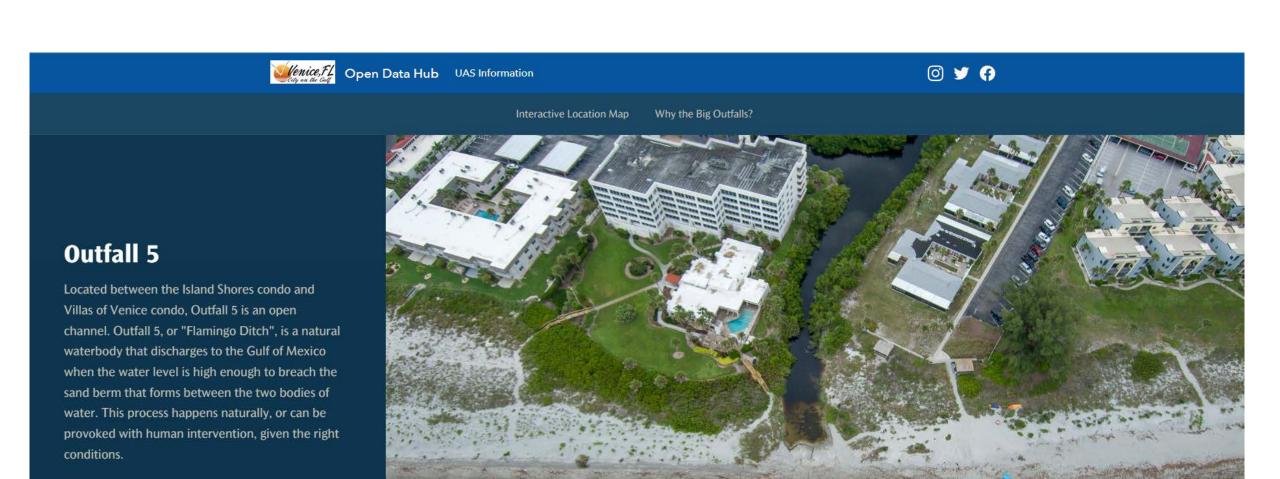
# Golden Beach and Flamingo Ditch











09

#### BEAUNITNº 2, SHEET 2 OF 2 SHEETS STATE OF FLORIDA ST. GULF .89°55'E 1270.0' BLOCK VENICE PARK 16\_ 117.2 0 15 00 15 2 17 0 15 50 50 16 3 : 14 - 14 3 = 14 3 & FLAMINGO 4 Existing drainage 7 8 12 VILLAS DRIVE = P.R.M. 12 2 10 12 15 O = IRON PIPE 110.8' EVERGLADES DRIVE East 5 46.04" 2 Block 15 Not included in this Plat 17 110.8' West 1450.35 r \$ SPADARO DRIVE \_\_\_

#### VENICE VILLAS A CONDOMINIUM

SECTION 13 TOWNSHIP 395, RANGE 18E. CITY OF VENICE, GOUNTY OF SARASOTA

STATE OF FLORIDA

STATE OF FLORIDA

NOTE: 53.00 IN 100 PROVIDE SARASOTA

STATE OF FLORIDA

NOTE: 53.00 IN 100 PROVIDE SARASOTA

NOTE: 53.00 IN 100 PROVIDE SARA

PROPERTY SUBMITTED TO CONDOMINIUM OWNERSHIP

FROM THE NORTHEAST CORNER OF SOUTHEAST QUARTER OF SECTION 13, TOWNSHIP 39 S, RANGE 18 E, BEING IN CENTER OF HARBOR DRIVE AS EXTENDED FROM NORTH; RUN THENCE NORTH ALONG CENTER OF HARBOR DRIVE 35 FEET; THENCE WEST 1382.8 FEET; THENCE N 10° 55' W, 578.52 FEET; THENCE WEST 61.11 FEET; THENCE N 10° 55' W, 120.56 FEET FOR A POINT OF BEGINNING; THENCE S 10° 55' E, 120.56 FEET; THENCE EAST 171.00 FEET; THENCE NORTH 287.9 FEET; THENCE N 75° 53' W, 780.0 FEET; THENCE SOUTH 40 FEET; THENCE N 75° 53' W, 156 FEET, MORE OR LESS, TO THE GULF OF MEXICO; THENCE SOUTHEASTERLY ALONG SAID GULF OF MEXICO 195 FEET, MORE OR LESS TO A POINT THAT LIES N 75° 55' W OF SAID POINT OF BEGINNING; THENCE S 75° 53' E, 691 FEET MORE OR LESS TO THE POINT OF BEGINNING.

#### CERTIFICATE OF SURVEYOR:

THE UNDERSIGNED BEING A LICENSED AND REGISTERED LAND SURVEYOR OF R. F. SUTTON & ASSOC., INC.,
DOES HEREBY CERTIFY THAT A SURVEY WAS MADE OF THE LANDS AND IMPROVEMENTS AS SHOWN HEREON AND THAT
THIS PLOT PLAN DESIGNATED AS EXHIBIT "A", CONSISTING OF SHEETS 1 AND 2, REFLECTS SUCH SURVEY AND
FURTHER CERTIFIES THAT THE CONSTRUCTION OF THE IMPROVEMENTS DESCRIBED IS SUFFICIENTLY COMPLETE SO
THAT SUCH MATERIAL, TOGETHER WITH THE WORDING OF THE DECLARATION OF CONDOMINIUM, AS RECORDED IN
THE PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA IS A CORRECT REPRESENTATION OF THE IMPROVEMENTS
DESCRIBED AND THERE CAN BE DETERMINED THEREFROM THE IDENTIFICATION, LOCATIONS, AND DIMENSIONS, OF THE
COMMON ELEMENTS AND OF EACH UNIT CONTAINED THEREIN.

RICHARD F. SUTTON

TE OF SURVEY 5/10/74 FLORIDA SHRAYOR'S RESINENCE

R.F. SUTTON & ASSOC. INC.

PREPARED BY

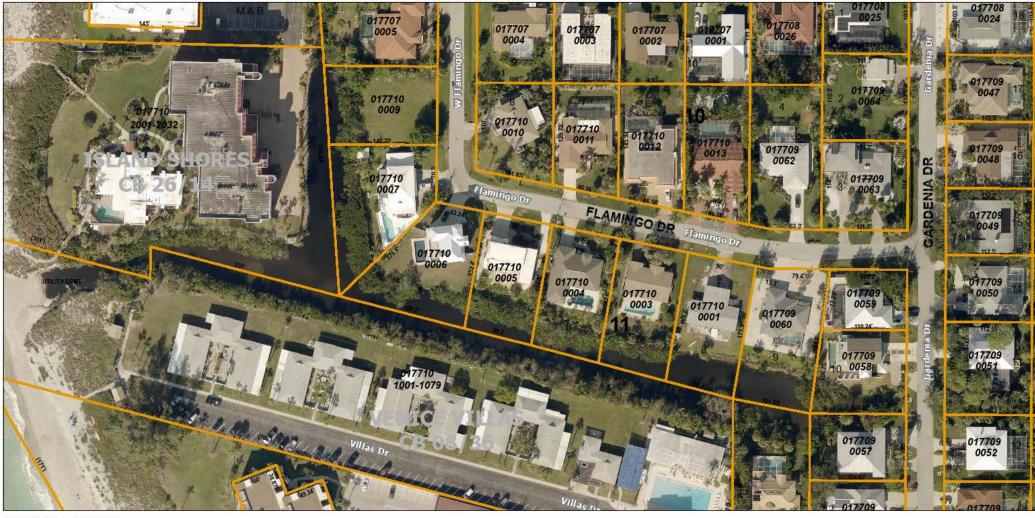
VILLAS DRIVE

SHEET \_L OF T

VENICE FLORIDA

WEST 1382.80

#### Sarasota County Property Appraiser



10/17/2023, 2:13:37 PM

Parcels 2024

i i c

— Lot Phase

Sec. 62-1. - Obstructing street drainage or drainage facilities.

(a) It shall be unlawful to obstruct the flow of stormwater by the obstruction of any ditch or drain on the alleys and streets of the city in any manner whatsoever. In addition, it shall be unlawful to block or impede historical drainage or retention.











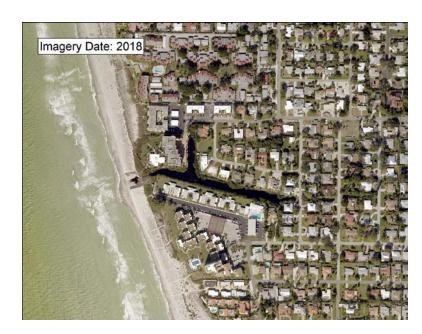


















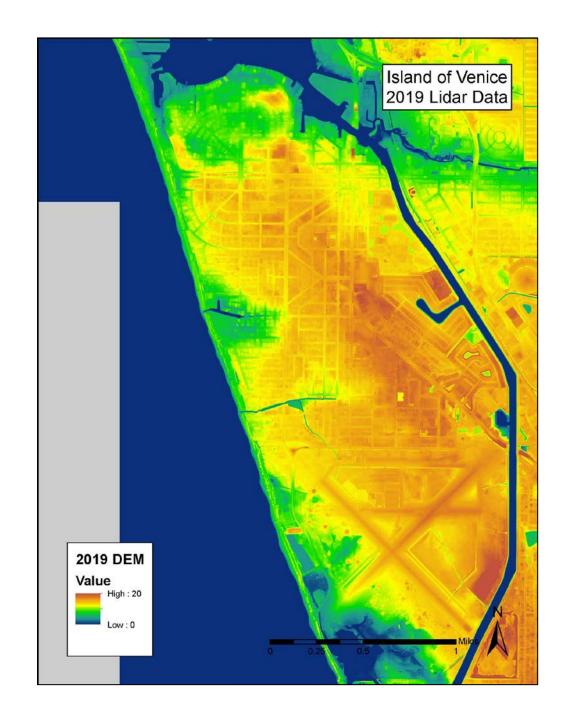


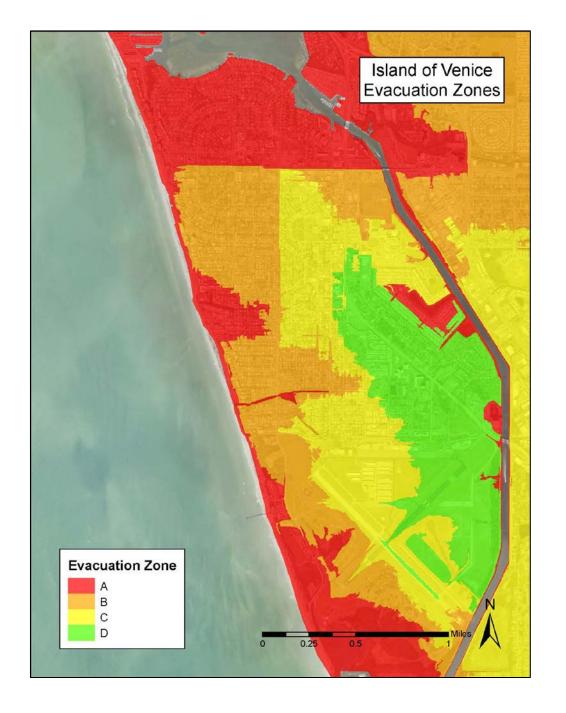






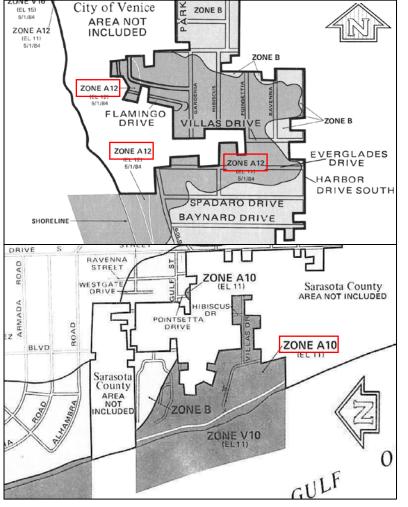


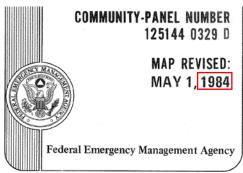




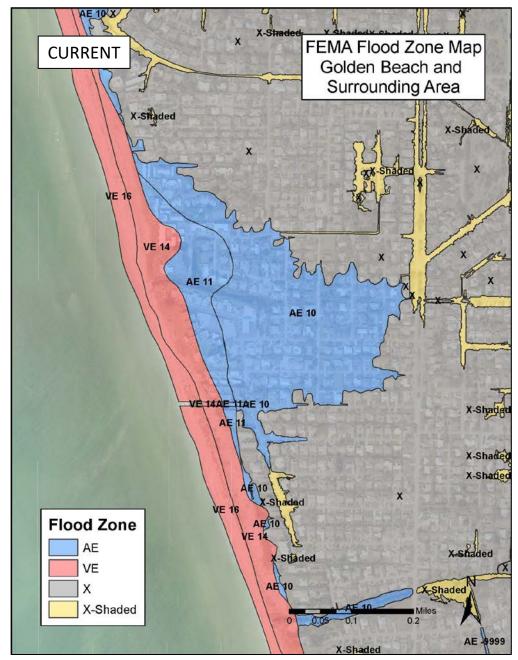
## FEMA Flood Zones

• The area surrounding Flamingo Ditch has been in the Special Hazard Flood Area for over 40 years.















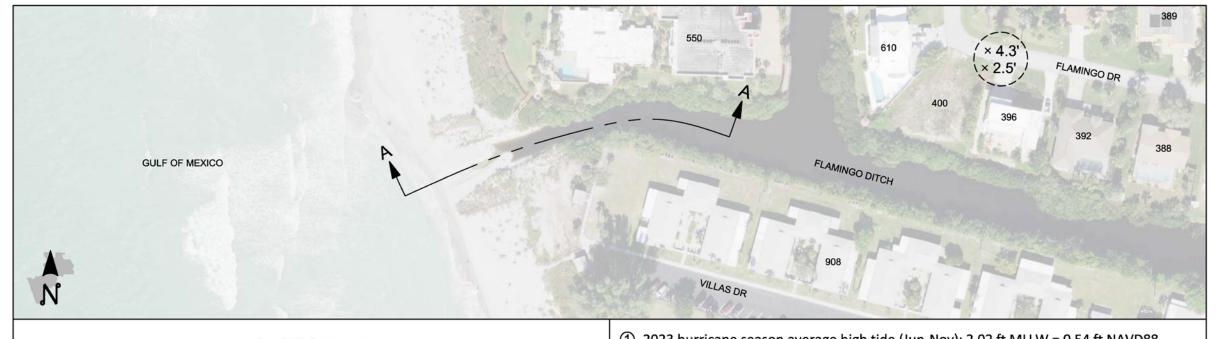


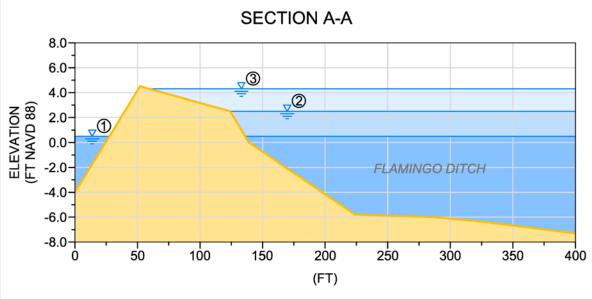
## After Hurricane Idalia





• Emergency vehicles were available to respond to the area except during high wind warnings.





- ① 2023 hurricane season average high tide (Jun-Nov): 2.02 ft MLLW = 0.54 ft NAVD88
- (2) Lowest roadside swale elevation: 2.5 ft NAVD88
- 3 Lowest crown of road elevation: 4.3 ft NAVD88
- The profile of the seaward 150 ft is highly variable. What is shown is considered typical, based on Lidar data. The profile landward of the aforementioned point is more stable; values shown are based on the 2014 post-demucking survey.
- Wave action effectively increases the elevation of the gulf as it pertains to opening the outfall.
- A deep trench not only drains Flamingo Ditch faster, it is also necessary to keep the trench open. A shallow trench will fill in.
- [rough calculations based on an assumed runoff coefficient] It takes less than 2" of rainfall to fill flamingo ditch to the lowest crown of road elevation if the outfall is not open even if drained to 0.0 ft NAVD88 prior to storm.

## **Equipment Access**

- Restricted during Sea Turtle Nesting Season (May-Oct)
  - A direct cell phone contact has been established with Mote
     Marine for emergency clearance during Turtle Nesting Season.





## Outfall Improvement Project Design Report (Dec 2011)

#### 5.2 <u>Design Rationale</u>

Water quality violations result from bacterial growth exacerbated by stagnant water, whereas continuous circulation and treatment of stormwater at the Gulf discharge will improve the water quality on a routine basis. Improvements to water quality require a continuous flushing or movement of water through the outfall discharge points, pruning and removing overgrown vegetation and non-native plants along the channel banks, sediment removal and UV treatment of a 2 inch equivalent "event" stormwater volume to significantly improve water quality. Discharge will be maintained by use of force main discharging fresh clean water at sufficient depths to provide mixing to achieve background salinity levels near hardbottom areas.

Table 2.2 Storm Surge Elevations by Storm Event

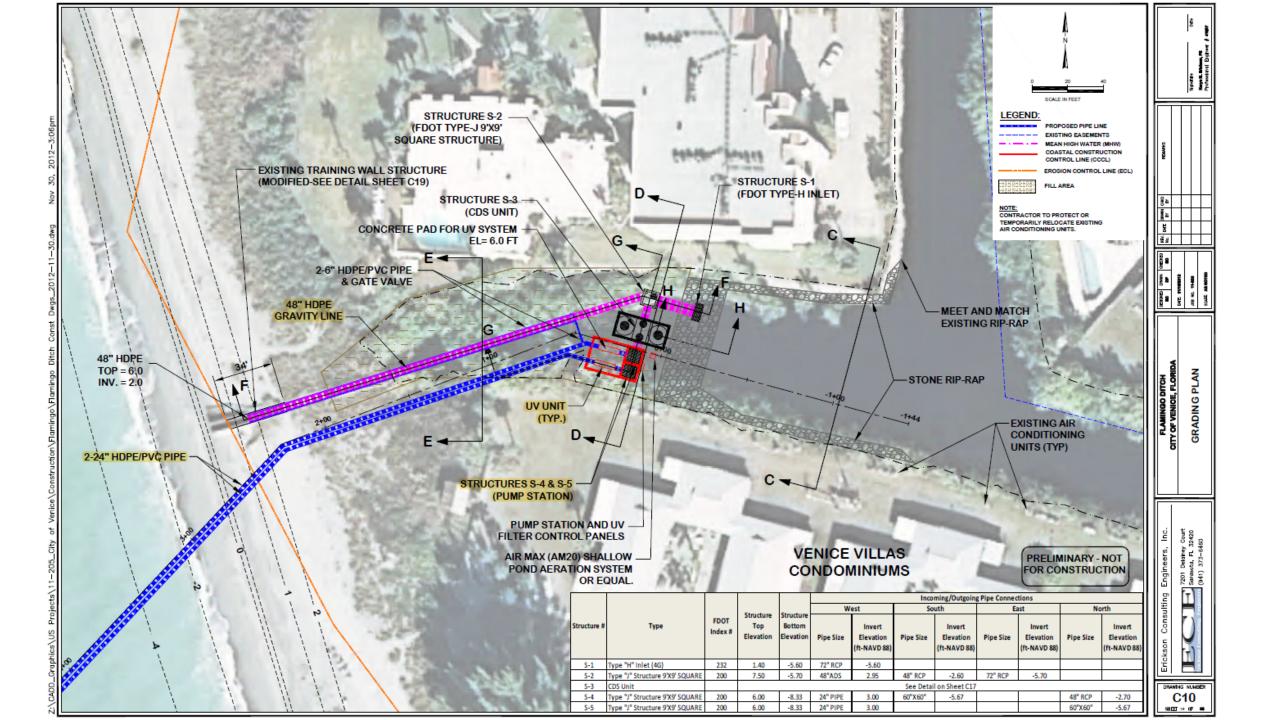
Return Period (Yrs)	Storm Surge (ft, NGVD)	Storm Surge (ft, NAVD)	
10	6.2	5.1	
15	7.3	6.2	
20	8.9	7.8	
25	9.5	8.4	
50	11.4	10.3	
100	12.8	11.7	

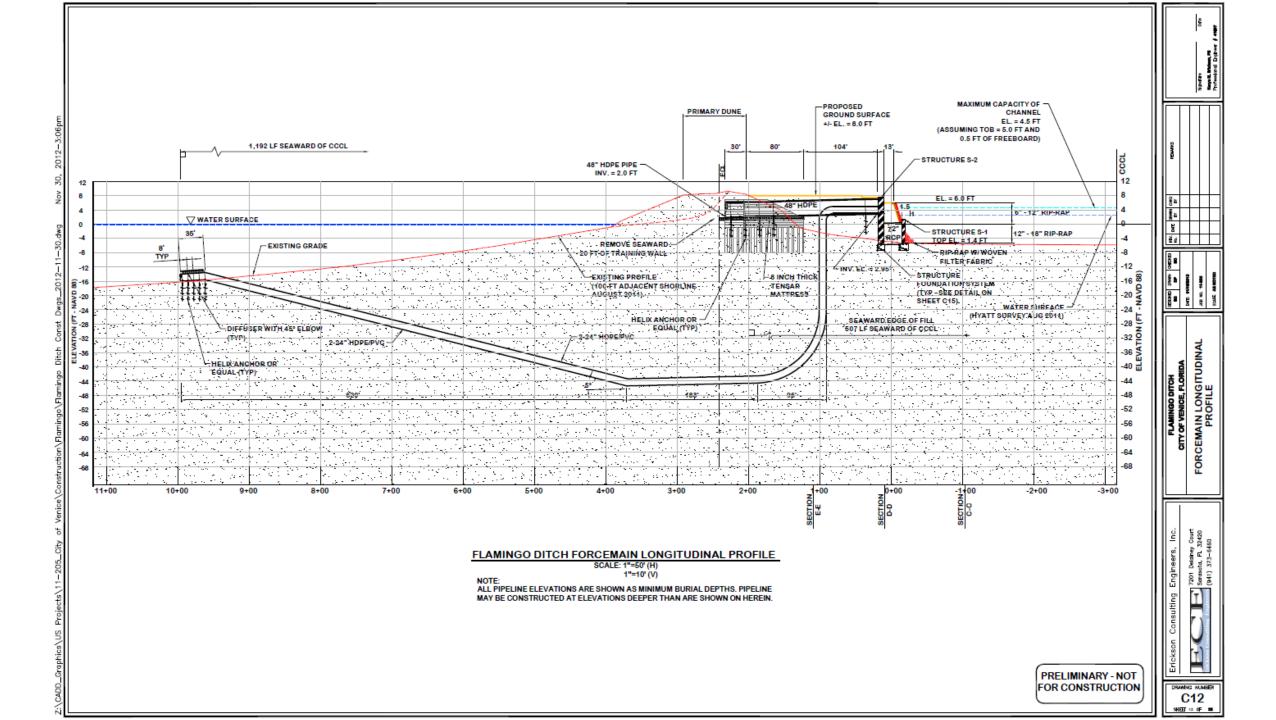
Source: Dean et al 1998

Table 2.4 Peak Water Stage Elevations by Rainfall Event

Rainfall Event	Flamingo Ditch Peak Elevations (Ft - NAVD)		Deertown Gully Peak Elevations (Ft - NAVD)	
0.5" Event	2.06		1.79	
1.0" Event	2.79		2.24	
1.5" Event	3.55		2.74	
2.0" Event	4.26		3.24	
3.0" Event	5.29		3.89	
4.0" Event	5.93		4.36	
2yr/24hr	6.20		4.51	
5yr/24hr	6.84		4.99	
10yr/24hr	7.21		5.30	
25yr/24hr	7.54		5.59	
100yr/24hr	8.05		6.17	

FLAMINGO DITCH GULF DISCHARGE PROJECT				
Project Cost Estimate				
4-Mar-13				
TOTAL PRICE ESTIMATE (HDPE Pipe Option)	\$	3,614,654.58		
TOTAL PRICE ESTIMATE (FPVC Pipe Option)	\$	3,649,574.58		





# 2013 Flamingo Ditch Demucking





# 2017 No-Name Storm (Prior to Hurricane Irma)





# Wooden Outfall Structure Removal (2018)





### Conclusions

- All cost-feasible options for improvement have been implemented
  - Demucking Project
  - Wooden Outfall Structure Removal
  - Improvement to SOPs
  - Encourage flood insurance policies (discount through CRS program)
- Low roadway elevations increase likelihood of flooding during surge events and major rain events
- Residents should heed evacuation orders
- Options moving forward:
  - Venice Villas: Easement and modification to beach access
  - Consultant needed for any other proposed improvement
  - Special tax district