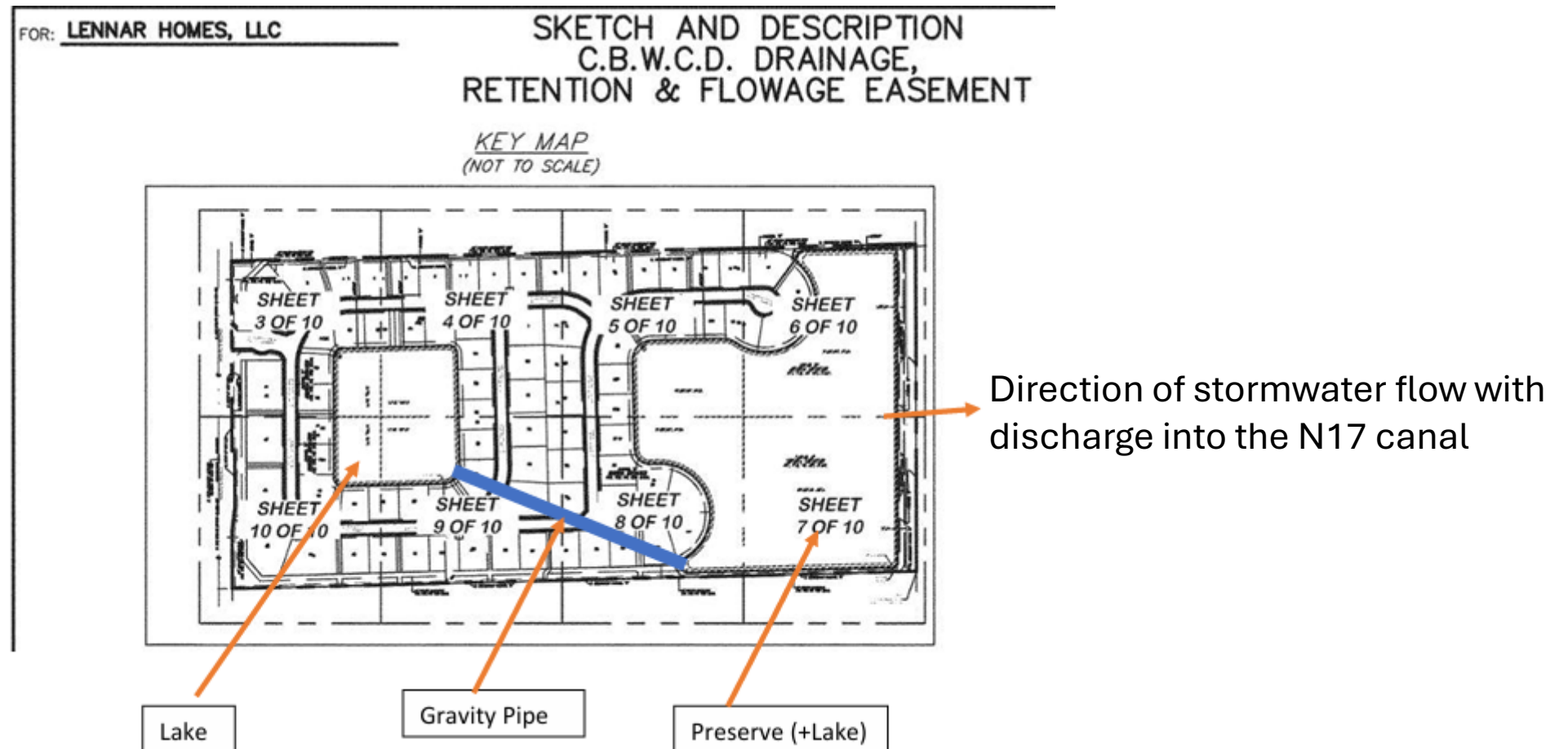


# Essential facts of the situation – Overall Plan

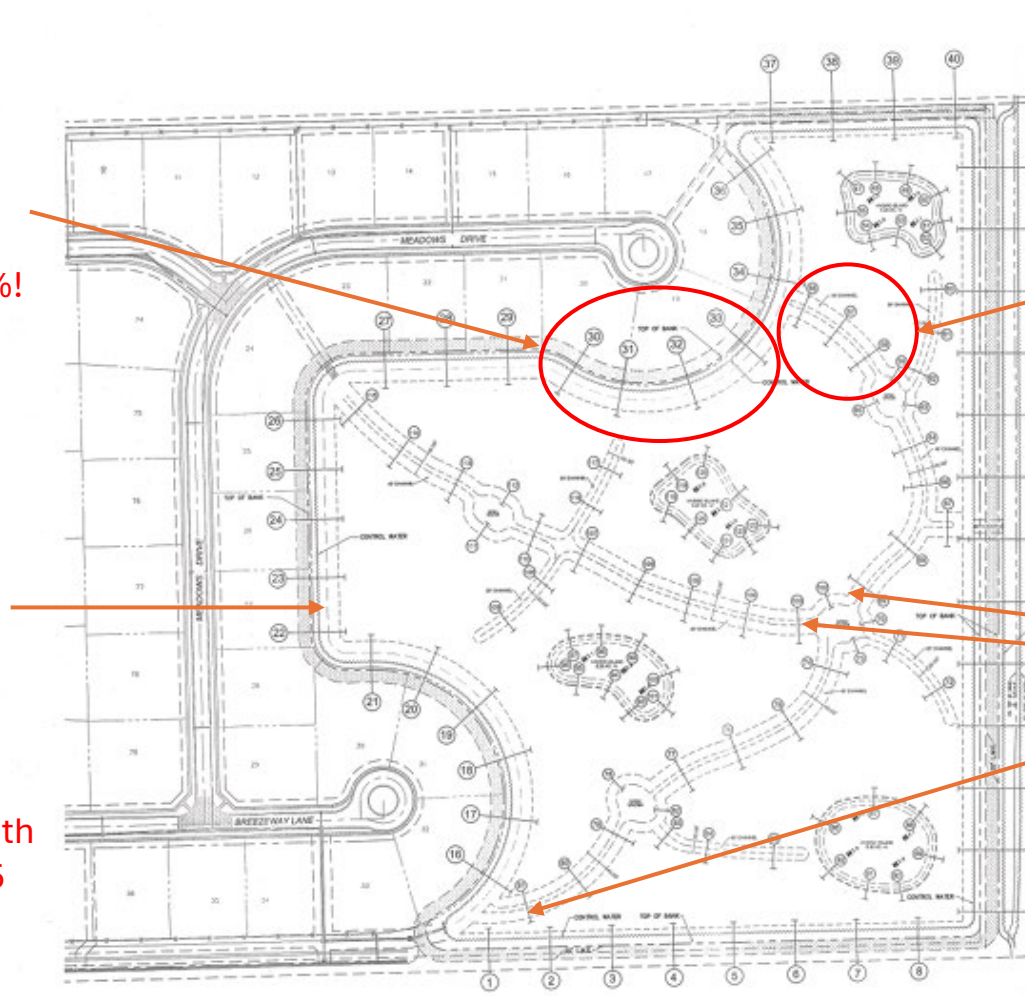
Stormwater Flowage, Drainage and Retention Body (Primary Function) +  
Wetland Environmental Resource (Secondary Function)



# Essential facts of the situation- Purported Engineering as-built

## Engineered flow channels for stormwater management (Primary function)

Width measurements between purported as-builts and Broward County Property Appraiser aerials show deviations of as much as 79%!



This 40 foot wide 10 foot deep section does not exist as clearly visible from Broward County Property Appraiser aerials!

How can 10 foot deep channels shallow so much in just 2-3 years?  
Or were they ever cut to the purported depth in the as-builts?

No hydric berm to prevent sloughing and contain marsh species in designated areas

Not erosion resistant

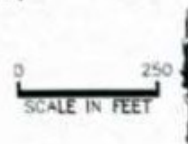
This was engineered to the wrong depth contrary to both the environmental plan per SFWMD permit and 10 foot minimum depth CBWCD drainage district depth regulation! 10 foot minimum depth excavation results in open water width being minimum 46 feet instead of 35 feet in plans due to CBWCD grading rules

# Conservation Plan (Flawed due to flawed permit)



## LEGEND

- HYDRIC ISLAND (0.98± AC)
- 80' x 100' OPEN WATER (0.61± AC)
- 20' SECONDARY CHANNELS (0.46± AC)
- 40' PRIMARY CHANNELS (1.86± AC)
- 17.5' TRANSITIONAL BUFFER (1.01± AC)
- MARSH AREA (17.20± AC)
- 35' OPEN WATER (1.74± AC)
- TOTAL (23.88± AC)



## SIERRA RANCH PRESERVE AREA LAYOUT

Common Name	Species	Size	Density	Quantity
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### Marsh (elevation 1.0 to 2.0 NGVD) 17.4 acres

Pickernelweed	<i>Pontedaria cordata</i>	bare-root	3' oc	6,500
Duck potato	<i>Sagittaria latifolia</i>	bare-root	3' oc	6,000
Knotted spikerush	<i>Eleocharis interstincta</i>	bare-root	3' oc	12,000
Alligator flag	<i>Thalia geniculata</i>	bare-root	3' oc	6,000
Blue flag iris	<i>Iris virginica</i>	bare-root	3' oc	6,000
Beak rush	<i>Rhynchospora microcarpa</i>	bare-root	3' oc	6,000
Maidencane	<i>Panicum hemitomon</i>	bare-root	3' oc	8,000
Soft rush	<i>Juncus effuses</i>	bare-root	3' oc	12,000
Sawgrass	<i>Cladium jamaicense</i>	bare-root	3' oc	15,000
Soft stem bulrush	<i>Scirpus validus</i>	bare-root	3' oc	10,000
Giant bulrush	<i>Scirpus spp.</i>	bare-root	3' oc	10,000

### Hydric Tree Islands (elevation 2.5 to 4.5 NGVD) 1.0 acre

Dahoon holly	<i>Ilex cassine</i>	10 gallon	10' oc	126
Red maple	<i>Acer rubrum</i>	10 gallon	10' oc	126
Red bay	<i>Persea borbonia</i>	7 gallon	10' oc	126
Pond apple	<i>Annona glabra</i>	7 gallon	10' oc	126
Wax myrtle	<i>Myrica cerifera</i>	3 gallon	5' oc	1,010
Coco plum	<i>Chrysobalanus icaco</i>	3 gallon	5' oc	1,010
Sand cordgrass	<i>Spartina bakeri</i>	1 gallon	3' oc	2,800
Fakahatchee grass	<i>Tripsacum floridanum</i>	1 gallon	3' oc	2,800

### Transitional Buffer (elevation 3.5 to 7.0 NGVD) 1.0 acre

Slash pine	<i>Pinus elliotii</i>	10 gallon	10' oc	450
Cabbage palm	<i>Sabal palmetto</i>	10-12'	10' oc	160
Firebush	<i>Hamelia patens</i>	7 gallon	5' oc	815
Coco plum	<i>Chrysobalanus icaco</i>	3 gallon	5' oc	815
Wax myrtle	<i>Myrica cerifera</i>	3 gallon	5' oc	815
Sand cordgrass	<i>Spartina bakeri</i>	1 gallon	3' oc	3,390
Fakahatchee grass	<i>Tripsacum floridanum</i>	1 gallon	3' oc	3,390

**Do you see Spatterdock in the marsh or the open water flow channels?**

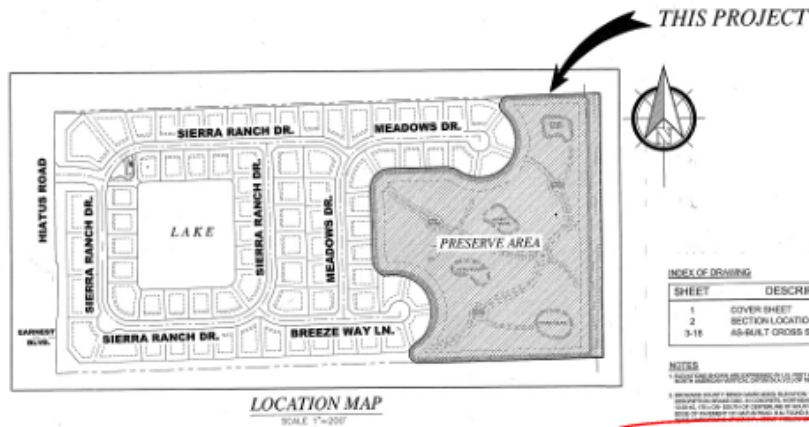


# Date and Signature Tampering on the CBWCD version

As-built sent to Sunil on Aug 16<sup>th</sup> by SFWMD

## SIERRA RANCH PRESERVE AREA AS-BUILT TOWN OF DAVIE, FL.

SECTION 18, TWP. 50S, RGE. 41E



### INDEX OF DRAWING

SHEET	DESCRIPTION
1	COVER SHEET
2-16	SECTION LOCATION PLAN AS-BUILT CROSS SECTIONS

### NOTES

1. THIS DRAWING REFLECTS CORRECTIONS FOR A FIELD SURVEY PERFORMED ON 12/01/2021.

### SURVEYOR'S CERTIFICATION:

I, the undersigned, being a duly qualified and licensed Professional Engineer, do hereby certify that the above described project was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Florida.

Joseph  
L Martin

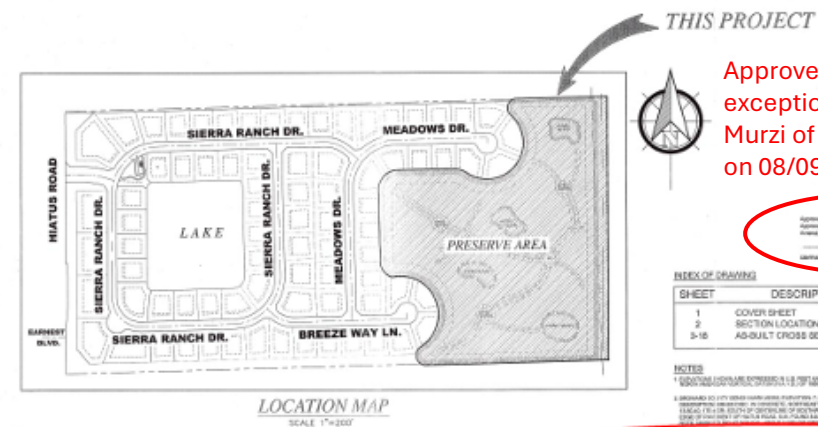


DATE	08-16-2023
PROJECT	SIERRA RANCH PRESERVE AREA AS-BUILT
CLIENT	SIERRA RANCH PRESERVE AREA
SCALE	1"=200'
SHEET NO.	1 OF 18

As-built approved by CBWCD on Aug 9<sup>th</sup>

## SIERRA RANCH PRESERVE AREA AS-BUILT TOWN OF DAVIE, FL.

SECTION 18, TWP. 50S, RGE. 41E



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### SURVEYOR'S CERTIFICATION:

I, the undersigned, being a duly qualified and licensed Professional Engineer, do hereby certify that the above described project was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Florida.

Chad Edwards



DATE	08-16-2023
PROJECT	SIERRA RANCH PRESERVE AREA AS-BUILT
CLIENT	SIERRA RANCH PRESERVE AREA
SCALE	1"=200'
SHEET NO.	1 OF 18

Approved without exception by Hans Murzi of RJ Behar on 08/09/23

1. Both are identical in contents confirmed by Pillar Consultants
2. Joseph Martin Surveyor signed the SFWMD version on 12/10/2021 and the CBWCD version on 07/25/2023
3. Chad Edwards PE signed the SFWMD version on 10/27/2022 and the CBWCD version on 08/16/2023 after the as built approval by the CBWCD on 08/09/2023

Not valid without signature and original raised seal of surveyor! Where is the raised seal on the CBWCD version?

This drawing reflects our findings as per a field survey performed on 12/01/2021