Thousand Oaks/Trinity Oaks Problem Solving Task Force

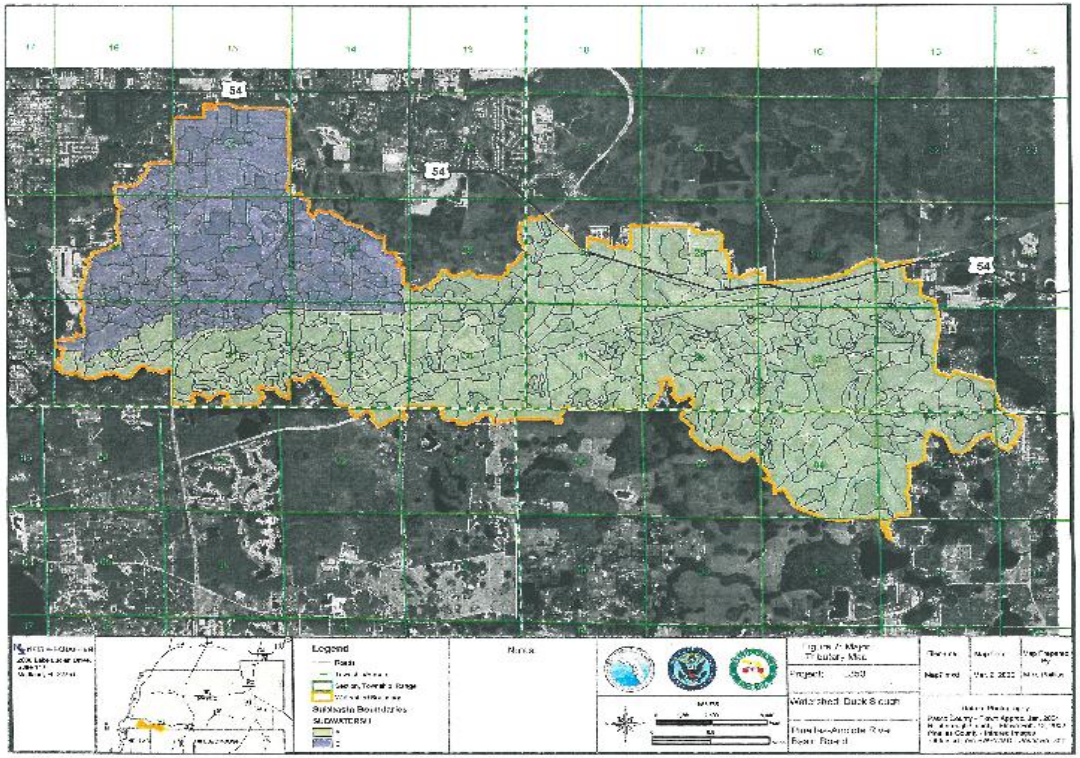
January 27, 2014

Agenda

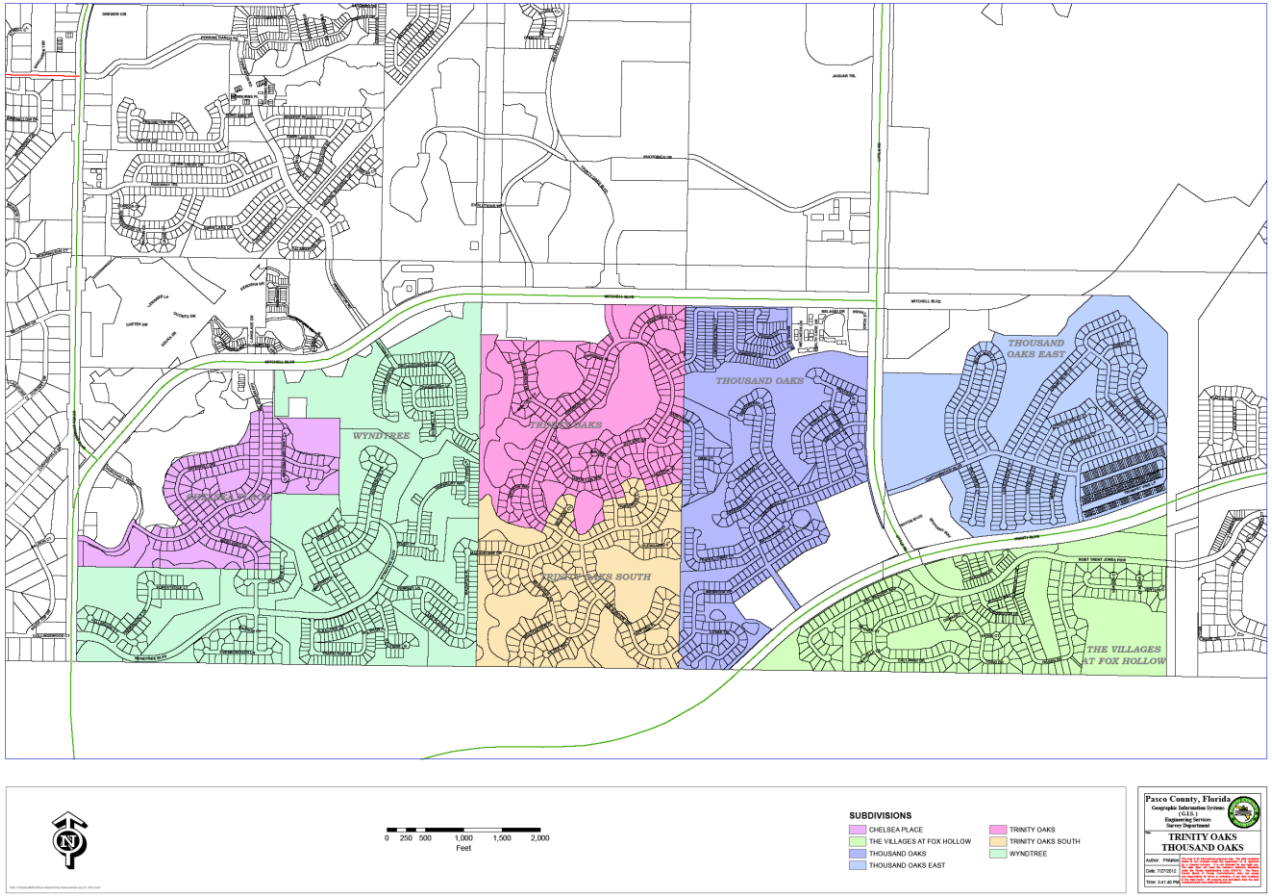
- Welcome
- Recap of Previous Meeting and Activities
- Water Level Monitoring Overview
- BMP Nos. 1A and 5A Permit Status
- Construction Bid Procurement
- BMP No. 6 Weir
- PACE
- Maintenance Activities
- Response Plan Development
- Pumping Activity
- Construction Concerns
- Milestones and Next Steps

DUCK SLOUGH WATERSHED

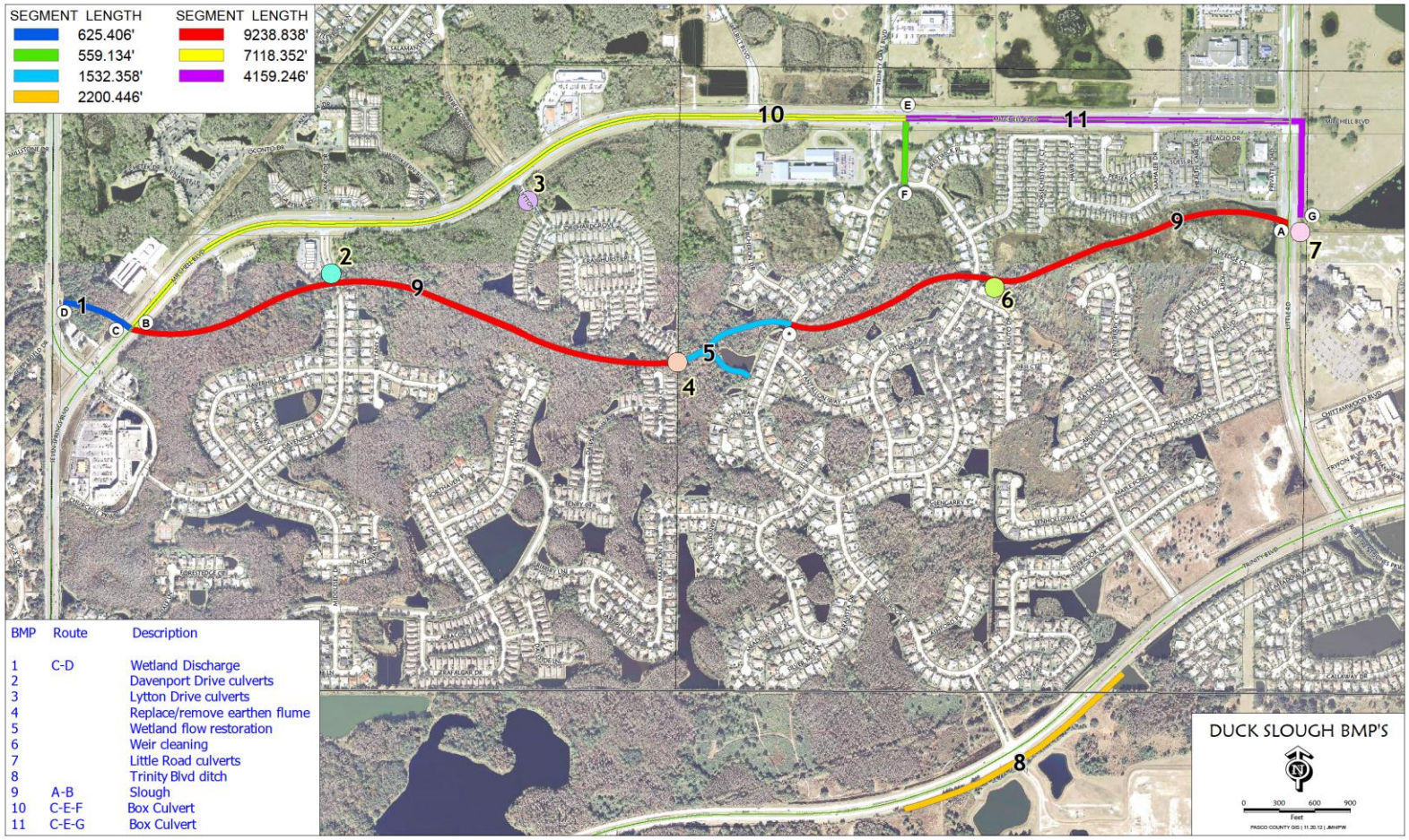
- 10.1 sq Miles Flows the developments involved



DEVELOPMENTS INVOLVED



Conceptual BMPs



ATKINS

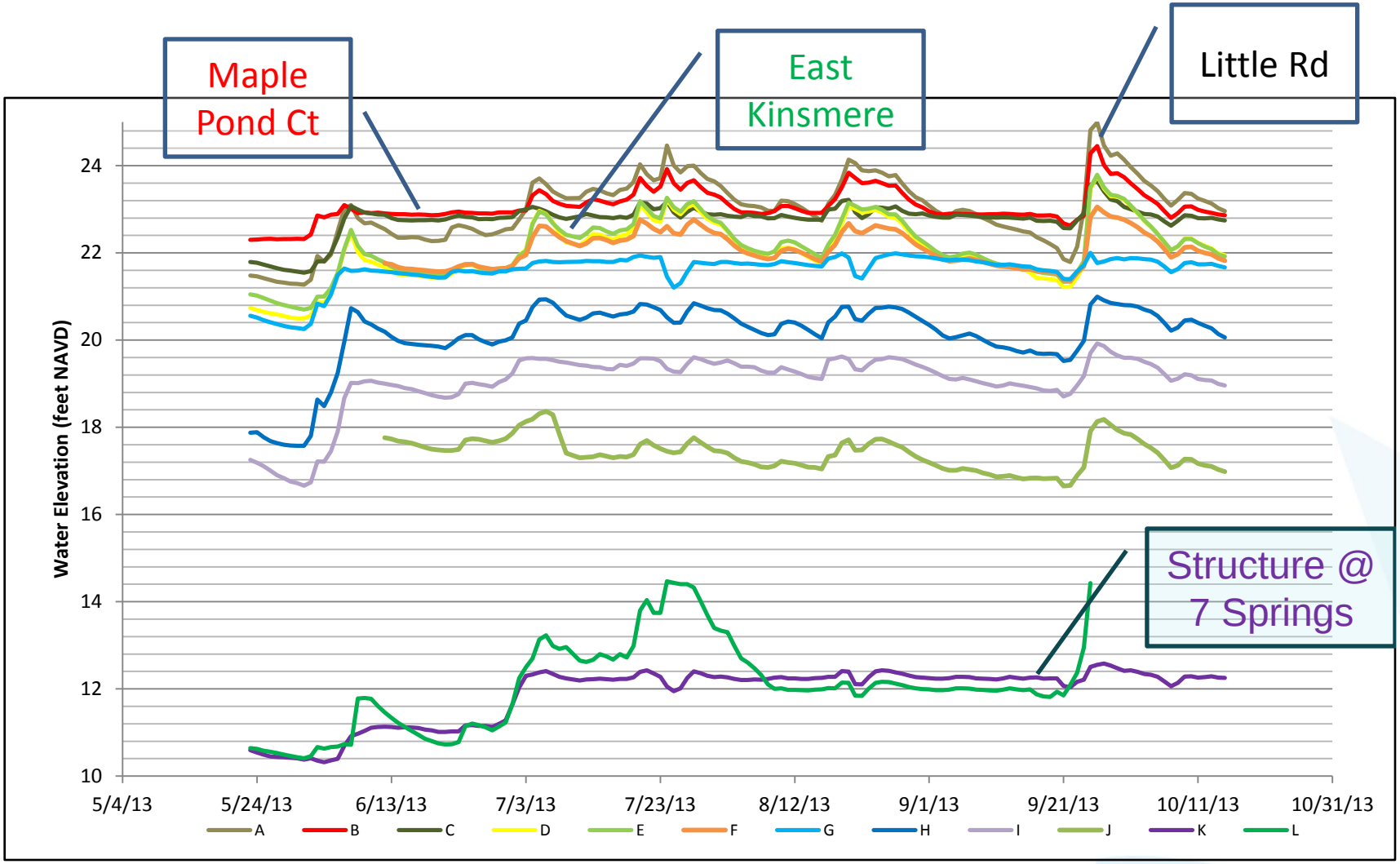
2013 Rainy Season Water Level Monitoring

Plan Design Enable

Monitoring May 24-October 15, 2013

12 Sites, Solinst® Level Loggers

Results


Maple Pond Ct
East Kinsmere
Little Rd
Structure @ 7 Springs
Water Elevation (feet NAVD)
24
22
20
18
16
14
12
10
5/4/13
5/24/13
6/13/13
7/3/13
7/23/13
8/12/13
9/1/13
9/21/13
10/11/13
10/31/13
A
B
C
D
E
F
G
H
I
J
K
L

Rainfall:Stage Comparison 9/22 – 9/27

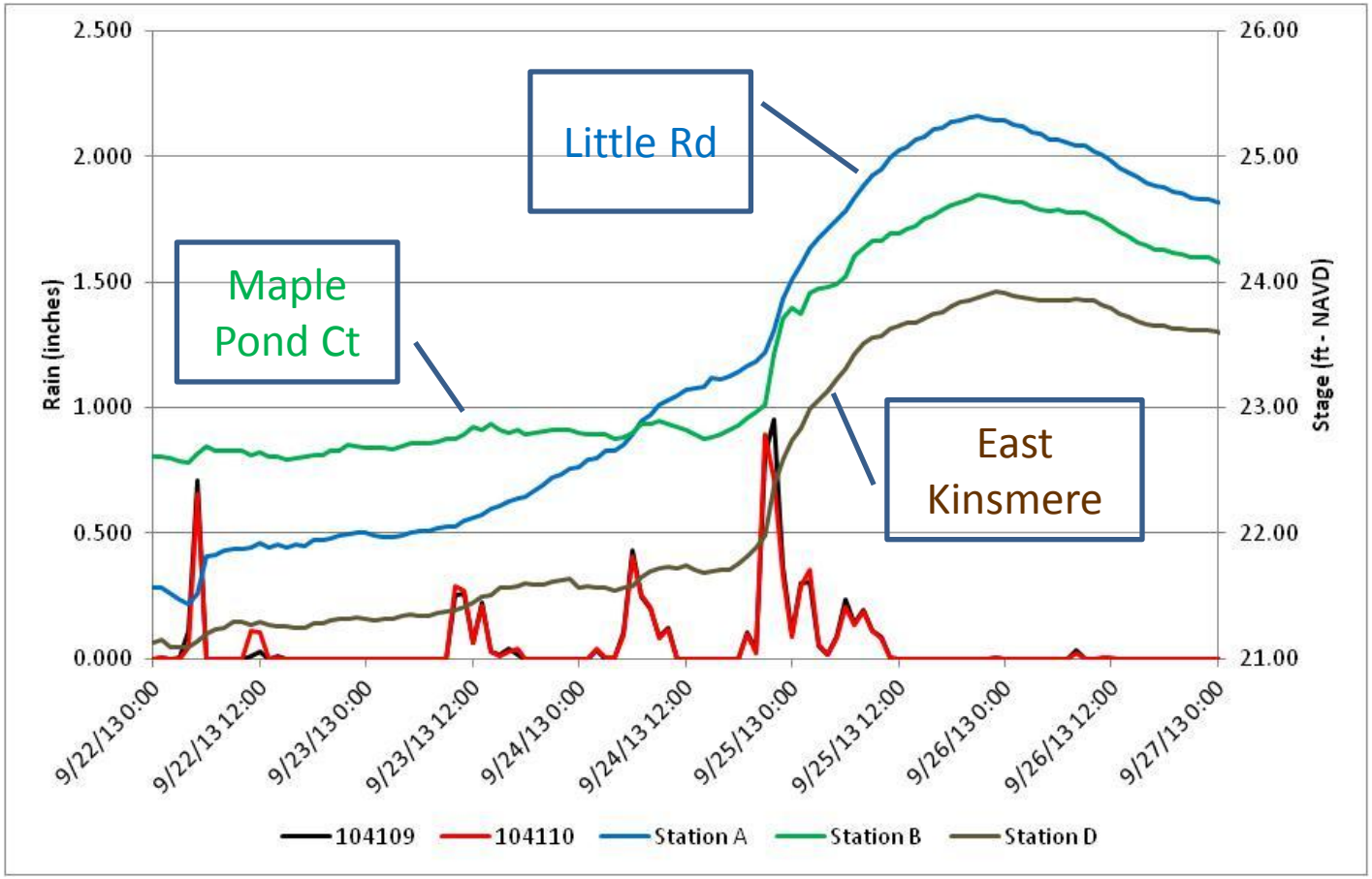
Rainfall

9/22: 0.86”

9/23: 0.89”

9/24 am: 1.22”

9/24 pm: 3.89”



Summary

Greatest Fluctuation

- Thousand Oaks in/near central channel
- Creek under 7 Springs

Relatively Stable Water Levels

- Southern Thousand Oaks (Fenholloway/Linebrook)
- Trinity Oaks Elem.
- Gate at 7 Springs

Permit Status-BMP 1A & 5A

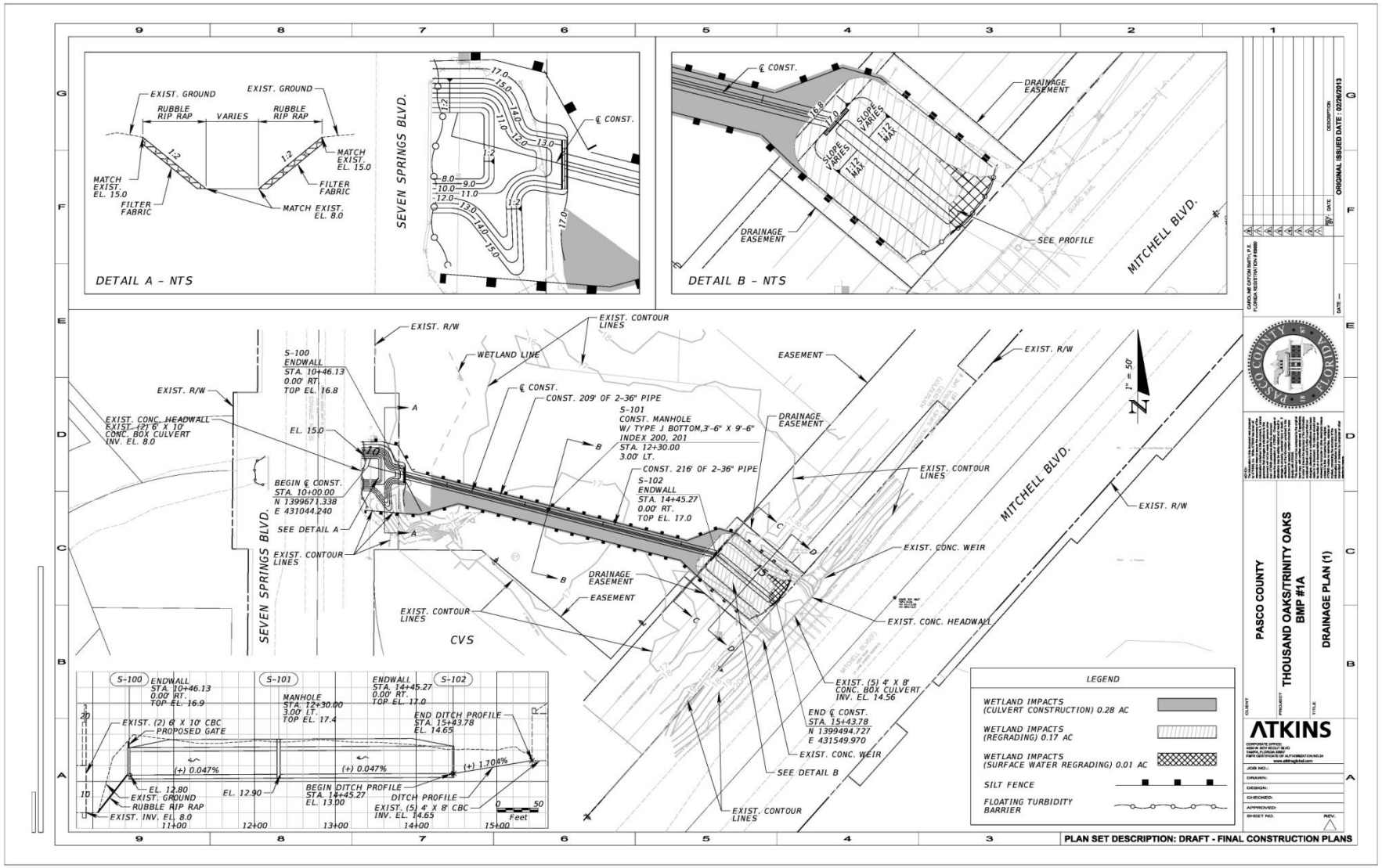
- OBJECTIVE

  -BMP 1A – Predischarge to create storage in the upstream system

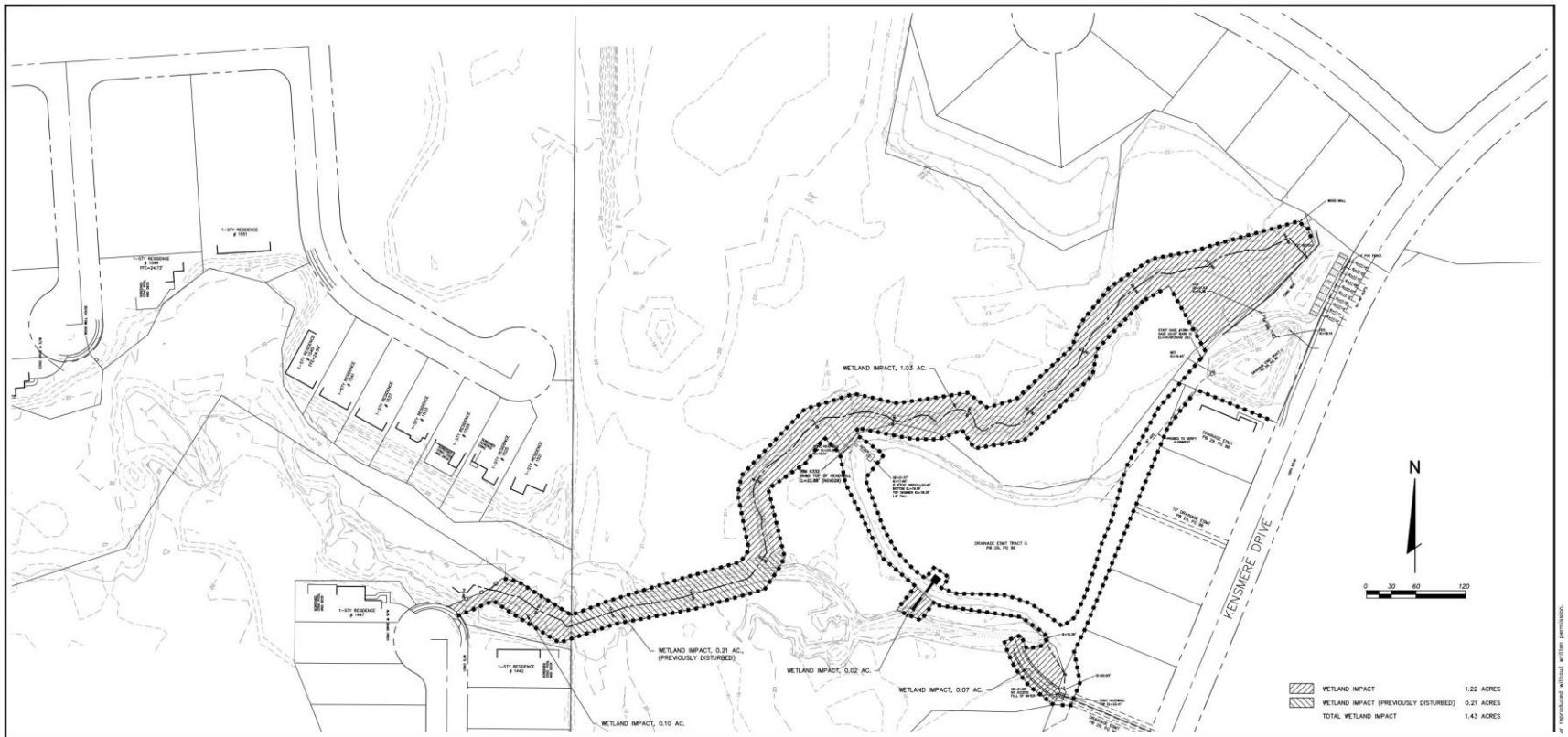
  BMP 5A – Pond Recovery

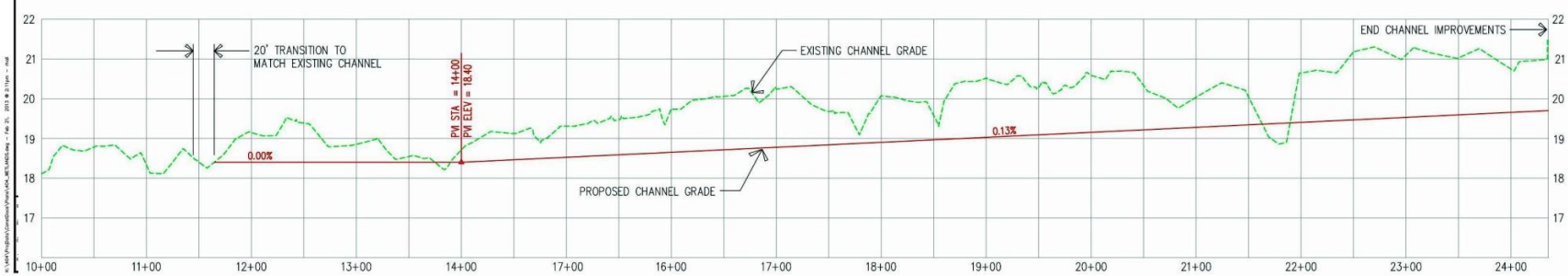
  Mitigation for BMP 1A and 5A

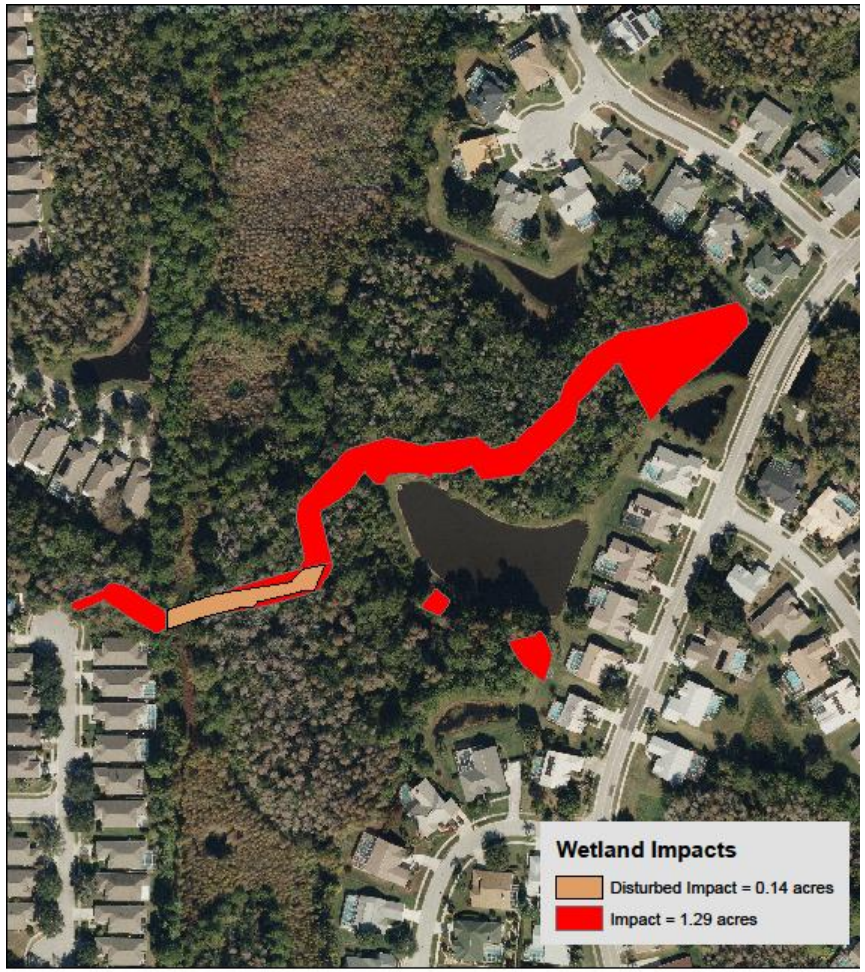
BMP 1A PROJECT AREA



BMP 5A PROJECT AREA







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SOURCES

Pasco County Property Appraiser

GIS DATA

This drawing is comprised of data obtained from a variety of sources. It is for informational purposes only and is not to be considered comprehensive for site-specific data.

DUCK SLOUGH
BMP IMPROVEMENTS
BMP 5 WETAND IMPACTS

prepared for

PASCO COUNTY STORMWATER MANAGEMENT DEPT.

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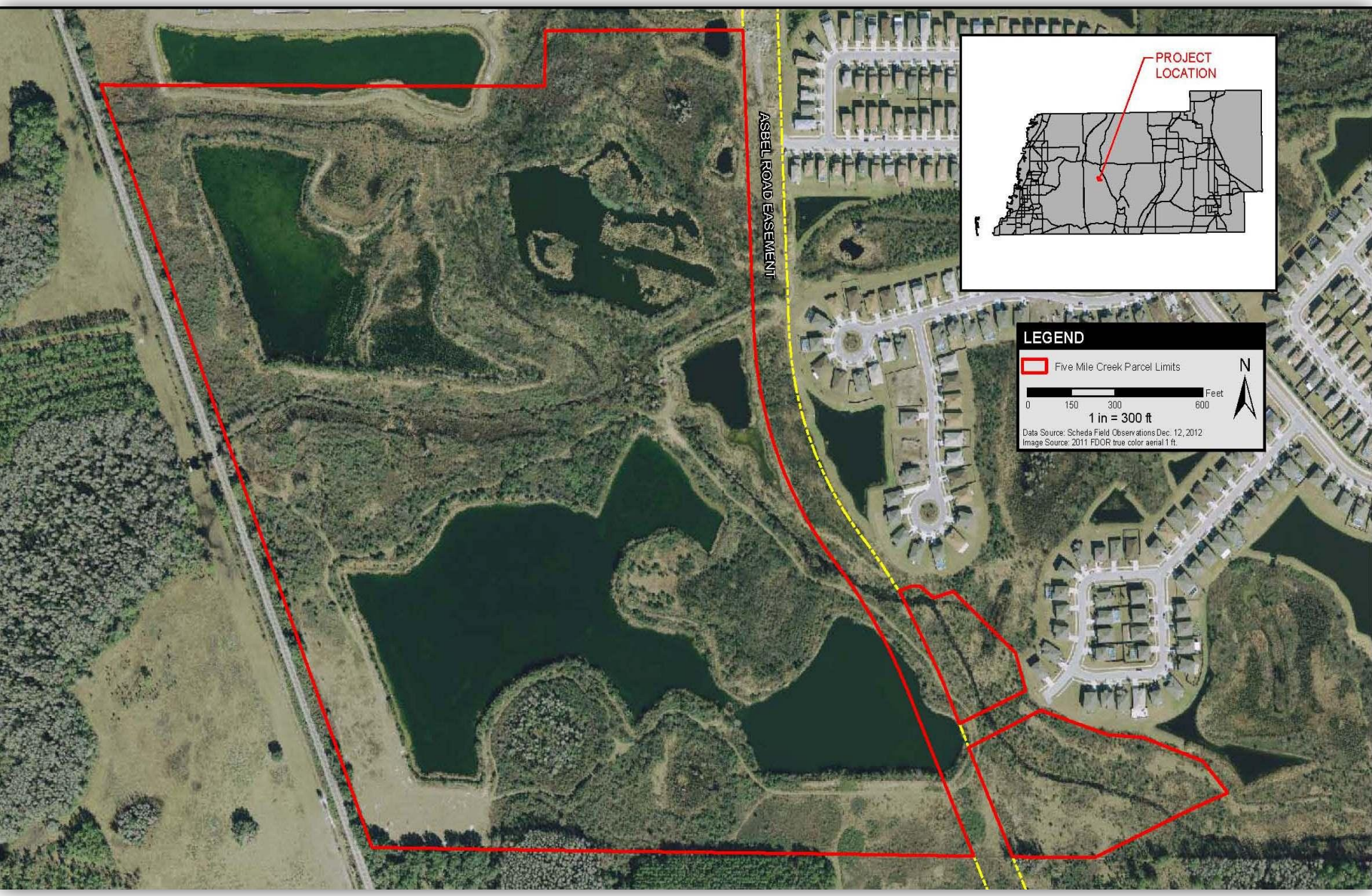
Mitigation for BMP 1A & 5A


ASBEL ROAD EASEMENT
PROJECT LOCATION
LEGEND
Five Mile Creek Parcel Limits
N
Feet
0
150
300
600
1 in = 300 ft
Data Source: Scheda Field Observations Dec. 12, 2012
Image Source: 2011 FDOR true color aerial 1 ft.

Permit History and Status BMP 1A & 5A & Mitigation

- Application submitted March 15, 2013 to SWFWMD and ACOE
- December 13, 2013, SWFWMD Permit Received
- January 9, 2014, ACOE Permit Proffered (correction from original presentation)

Bid Procurement Process

- Construction Documents placed out to Bid
- Minimum 30 days for bids to be received (Section 255, Florida Statutes)
- Bid Opening scheduled for February 4, 2014
- Award bid
- Construction Contract

What Else is Being Worked On?

BMP 6 EVALUATION

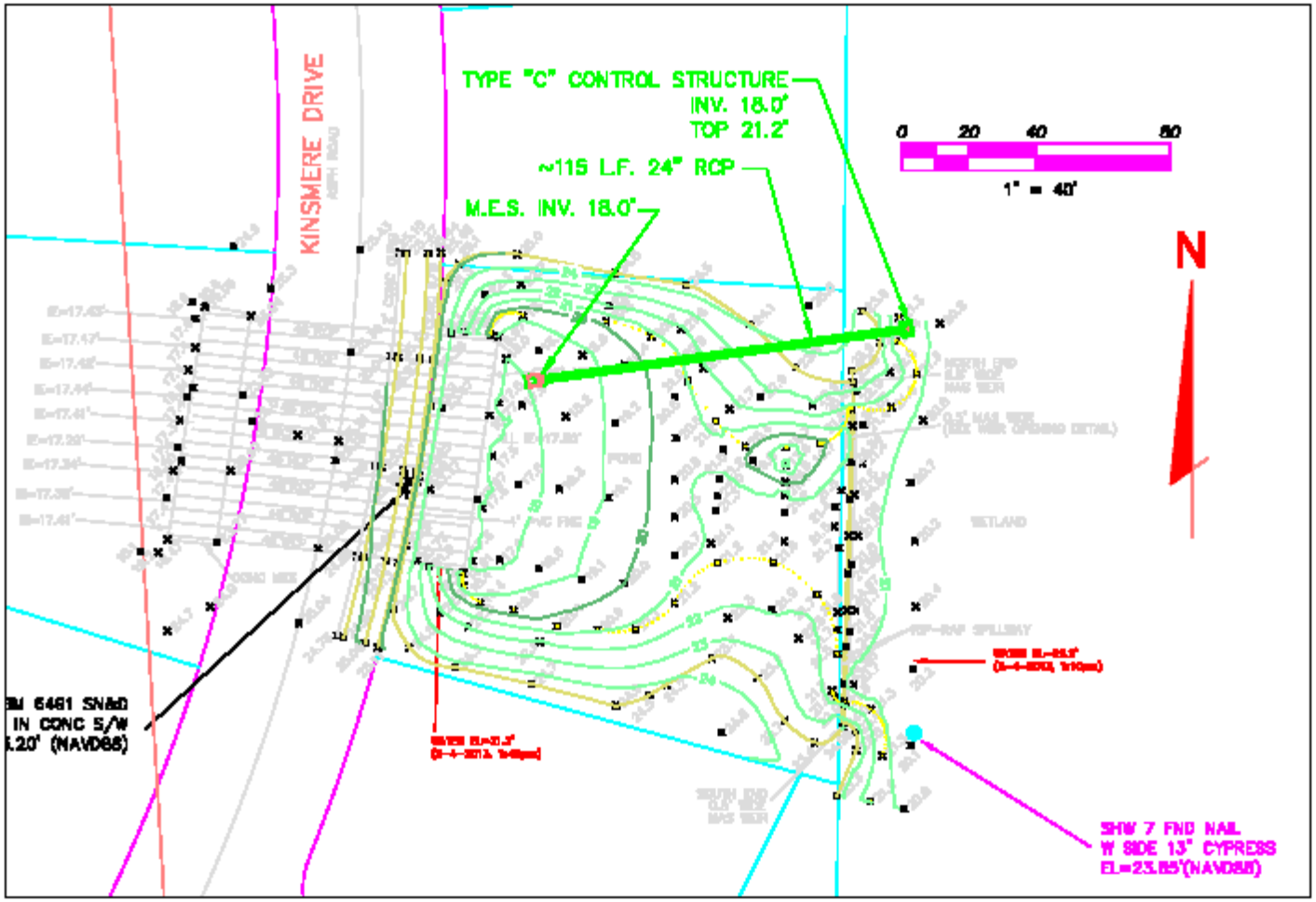
Lowering the Weir Upstream of East Kinsmere

The current Duck Slough watershed model was used to evaluate performance of various alternatives for lowering the existing weir. The goal is to lower normal water level in the upstream wetland by one foot, while not adversely affecting downstream properties.

- Interim Solution
- Long Term Solution

Concerns with BMP 6

- Structural stability of existing weir
- December Structural Evaluation



DeLoach

BMP 6 DESIGN

BYPASS WITH CONTROL STRUCTURE

FIGURE B

BMP 6 Interim

- Pipe bypass
  - PreApplication Meeting with SWFWMD
  - Submit permit application
  - Construction Bid Documents
  - Construction Contract
  - Construction
  - Design and Permitting Cost estimated at $50K

BMP 6 Long Term

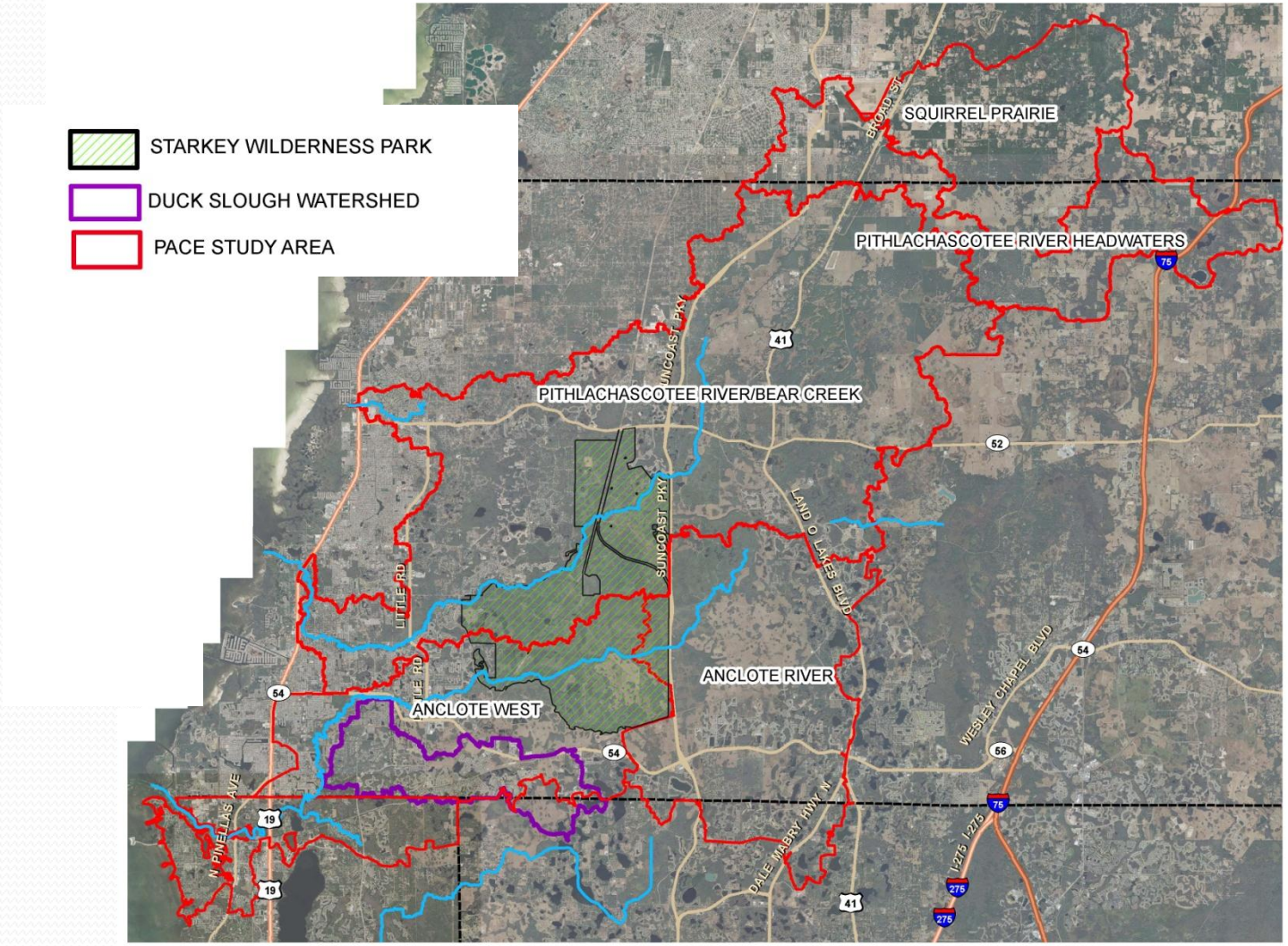
– Replace the Existing Weir with Lowered Bays

Pithlachascotee /Anclote Conservation Effort Cooperative Funding Initiative Project Overview

Description

- Project Number L738 (PACE)
- Multi year project
- Evaluation of regional solutions to Duck Slough flooding problems
- Flow diversion and impounding stormwater
- Total funding currently available is $2.5M

Project Area Map



Schedule

- Data Collection
  - Has begun with collection of as-builts for area ERPs.

- Watershed model development.
  - Approximately 1,200 structures to be included in the model

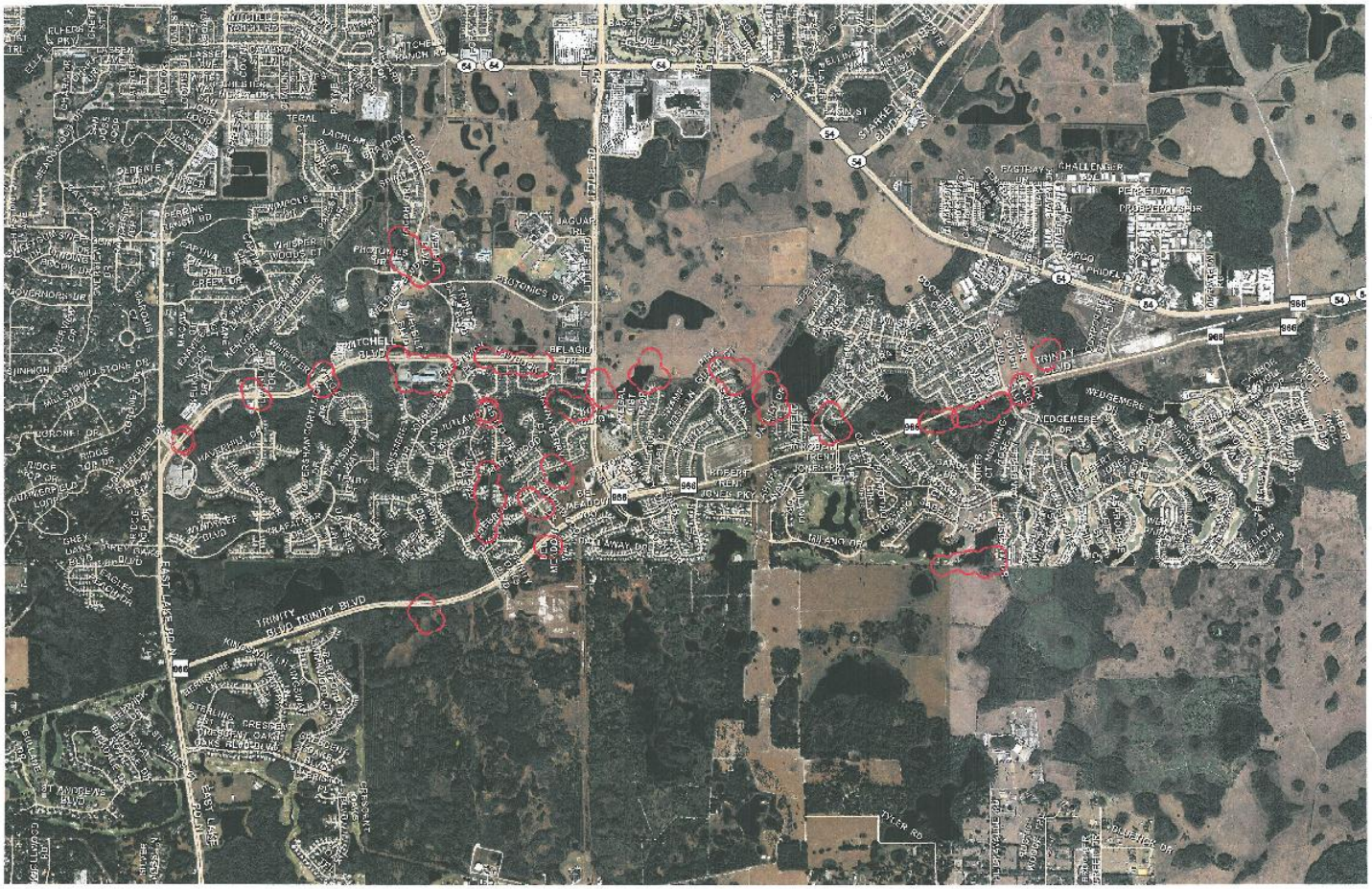
Schedule (Continued)

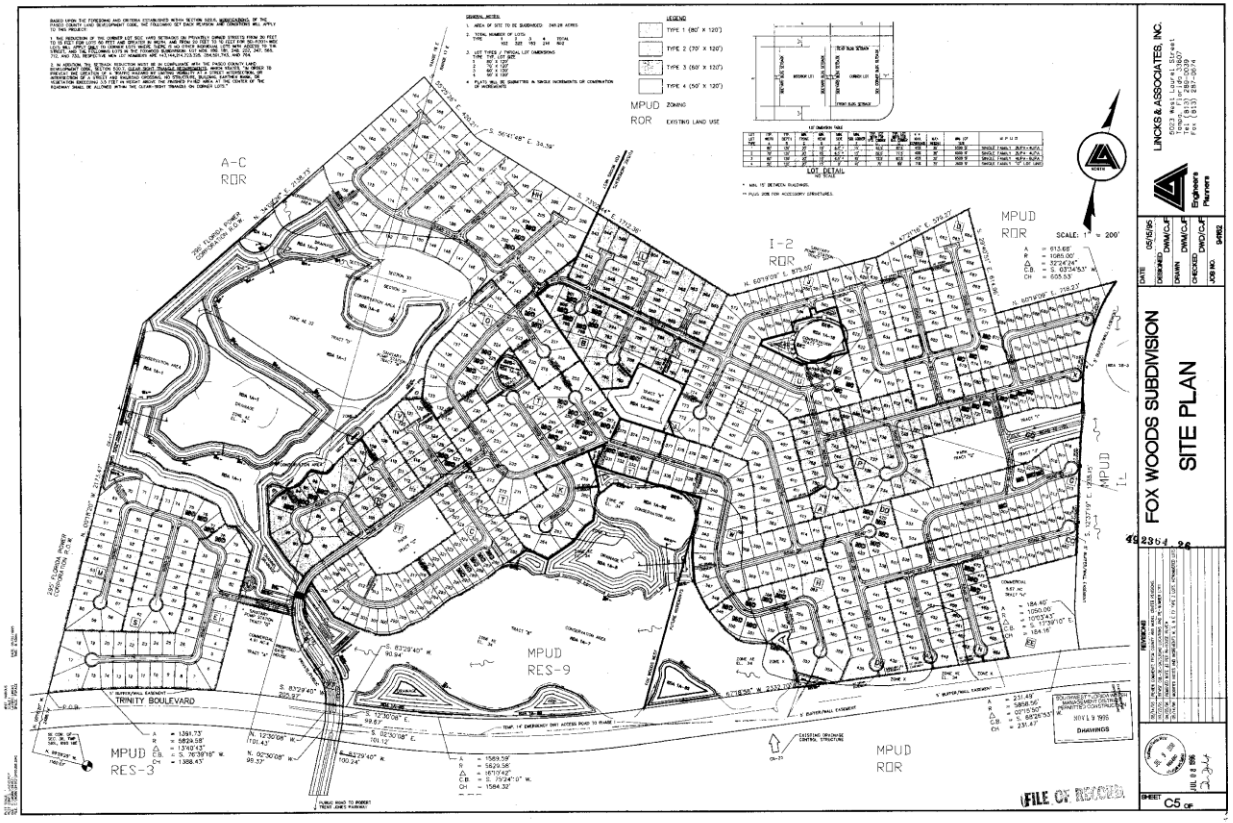
- Floodplain Delineation
  - Verify model using TS Debby data
  - Peer Review

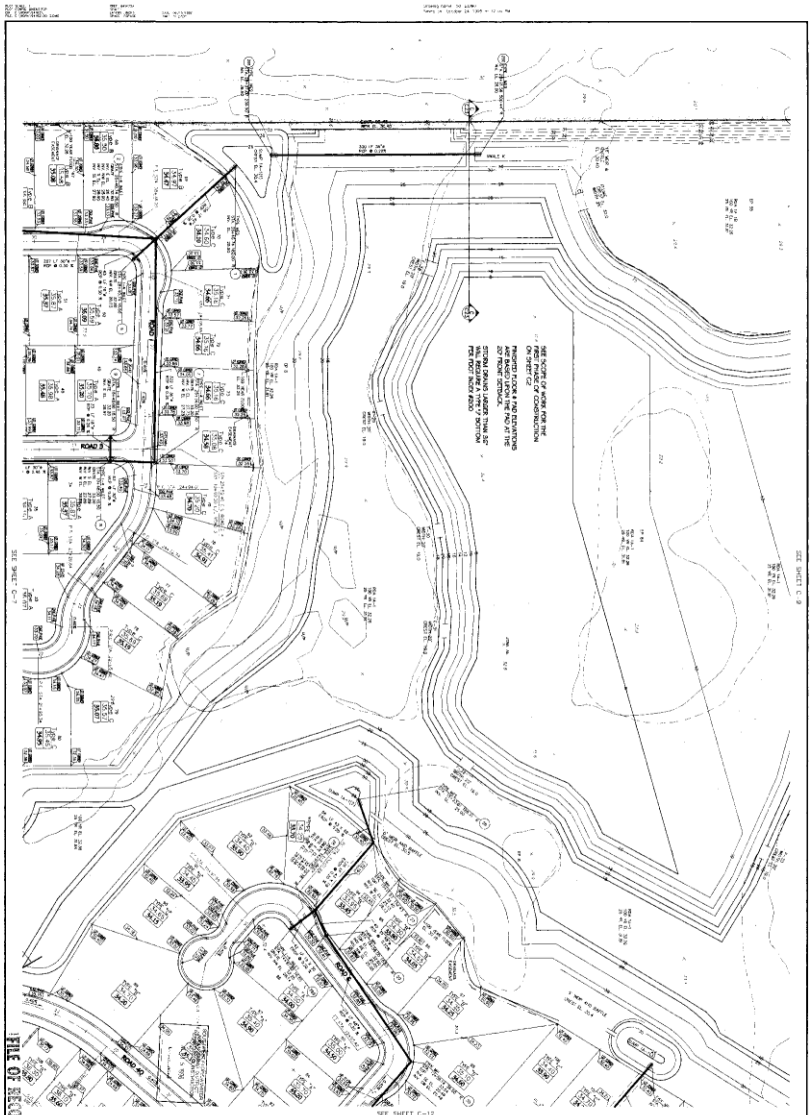
- Floodplain Adoption
- Public Comment
- Responses
- SWFWMD Board Approval

- BMP Development
- LOS
- BMP formulation
- Ranking

SWFWMD - Maintenance


MITCHELL BLVD
TRINITY BLVD
EAST LAKE RD
JONES PKY
TYLER RD
WEDGEMERE DR
CHALLENGER
PERPETUAL DR
PROSPERITY DR
PHOTONICS DR
JAGUAR DR
WHISPER WOODS CT
LACHLAN
OLDENIE
CAPTIVA
GOVERNOR DR
JINNIGN DR
MILLSTONE DR
BRONCO DR
RIDGE TOP DR
GREY OAKS BLVD
EAGLES
ST ANDREWS BLVD
STERLING
PRESIDENT
TREASURY
OAKS BLVD
BERKSHIRE
KINGSWOOD
WINDSOR
CRESCENT
BELLAGIO DR
ROBERT TRENT JONES DR
ALDERMAN
ALDERSGATE
ALDERWOOD
ALDERMAN
ALDERSGATE
ALDERWOOD
ALDERMAN
ALDERSGATE
ALDERWOOD


A-C
RDR
I-2
RDR
MPUD
RDR
MPUD
RES-9
MPUD
RES-3
MPUD
RDR
MPUD
TC
TRINITY BOULEVARD
LEGEND
TYPE 1 (80' X 120')
TYPE 2 (70' X 120')
TYPE 3 (60' X 120')
TYPE 4 (50' X 120')
MPUD ZONING
RDR EXISTING LAND USE
LOT DETAIL
SCALE: 1" = 200'
LINCKS & ASSOCIATES, INC.
Engineers
Planners
FOX WOODS SUBDIVISION
SITE PLAN
DRAWINGS
FILE OF RECORD
C5



FILE OF RECORD

C8 OF

JUL 06 1995

REVISIONS	
9/21/95	ADDED FUTURE PROJECT TO SHEET
10/27/95	ADDED MATERIAL ELEVATION FOR THE 10' LOTS & HIGHER ELEVATIONS FOR PAD TO SHEET COMMENTS
10/27/95	REVISED FOR SHEET REVISION 2 & REVISIONS 4 & 7 & 8 & ADDED AS REQUIRED FOR ANNEXATION OF PARCEL THE DRAWING

492364.26

FOX WOODS SUBDIVISION

GRADING AND DRAINAGE PLAN

DATE	12/06/95
DESIGNED	DWM/CJF
DRAWN	DWM/CJF
CHECKED	DWD
JOB NO.	94162

LINCKS & ASSOCIATES, INC.
5003 West Laurel Street
Tampa, Florida 33607
Tel (813) 289-0039
Fax (813) 287-0674
Engineers
Planners

SCALE: 1" = 50'

Foxwood Weir

October 1, 2012

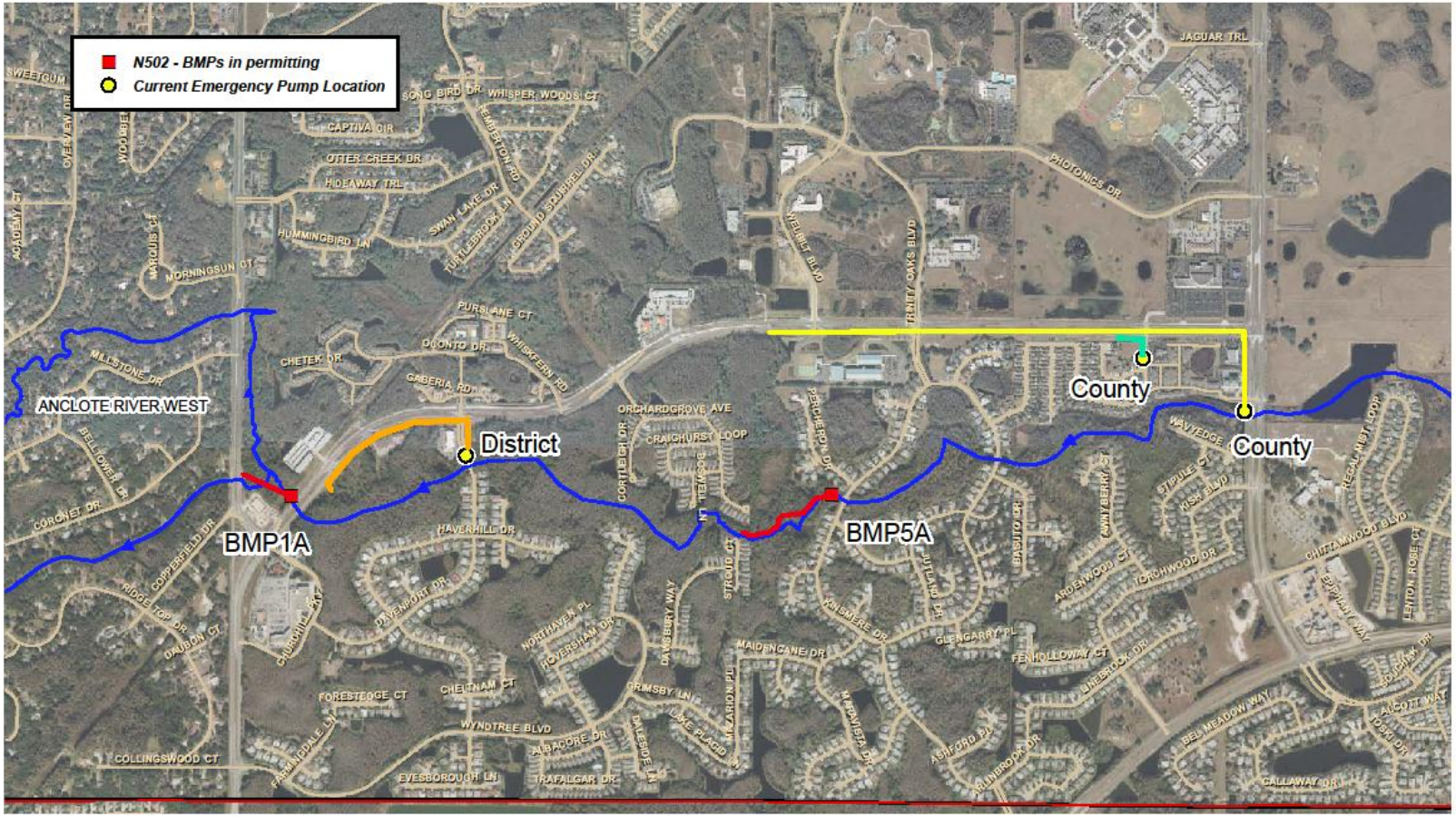
June 7, 2013

Response Plan Development

- Why
- When
- How

Pumping Activities

DUCK SLOUGH EMERGENCY PUMPS



Construction Concerns

Next Meeting