

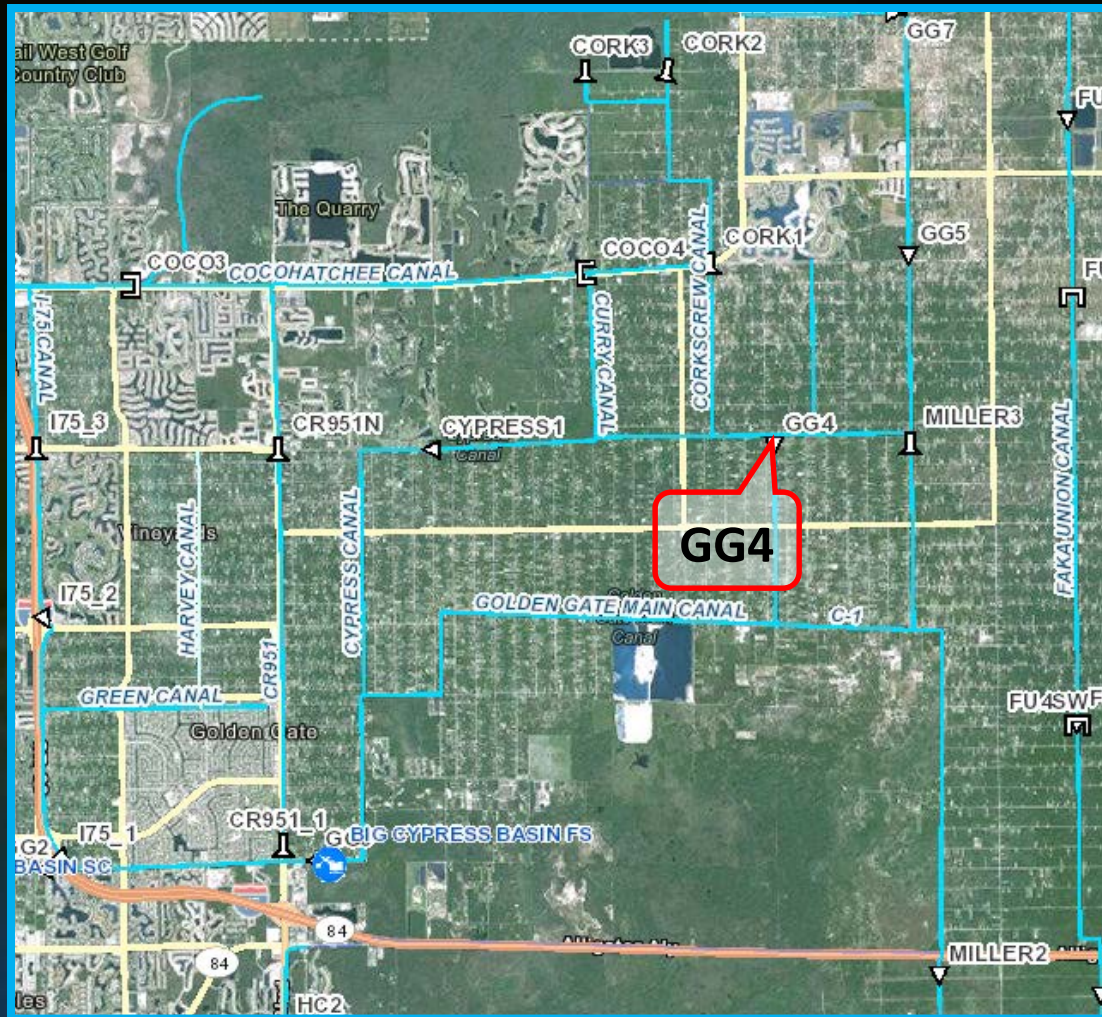


# **Big Cypress Basin Capital Project Update**

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# Golden Gate Weir 4 Replacement



South Elevation of Structure

## Golden Gate Weir 4 Replacement

- Structure designed for 1,006 cfs
- Project awarded to Zep Construction for \$4,710,000
- NTP September 29, 2017 with a contract duration of 620 days
- Project is 98% complete
- Pending \$17k Change Order for completed work items

| Fiscal Year | Budget      | Committed   |
|-------------|-------------|-------------|
| 2014/2015   | \$127,800   | \$173,490   |
| 2015/2016   | \$450,000   | \$427,313   |
| 2016/2017   | \$461,900   | \$906,990   |
| 2017/2018   | \$4,000,000 | \$3,150,000 |
| 2018/2019   | \$1,646,360 | \$1,846,678 |
| Total       | \$6,686,060 | \$6,504,471 |

## Golden Gate Weir 4 Replacement

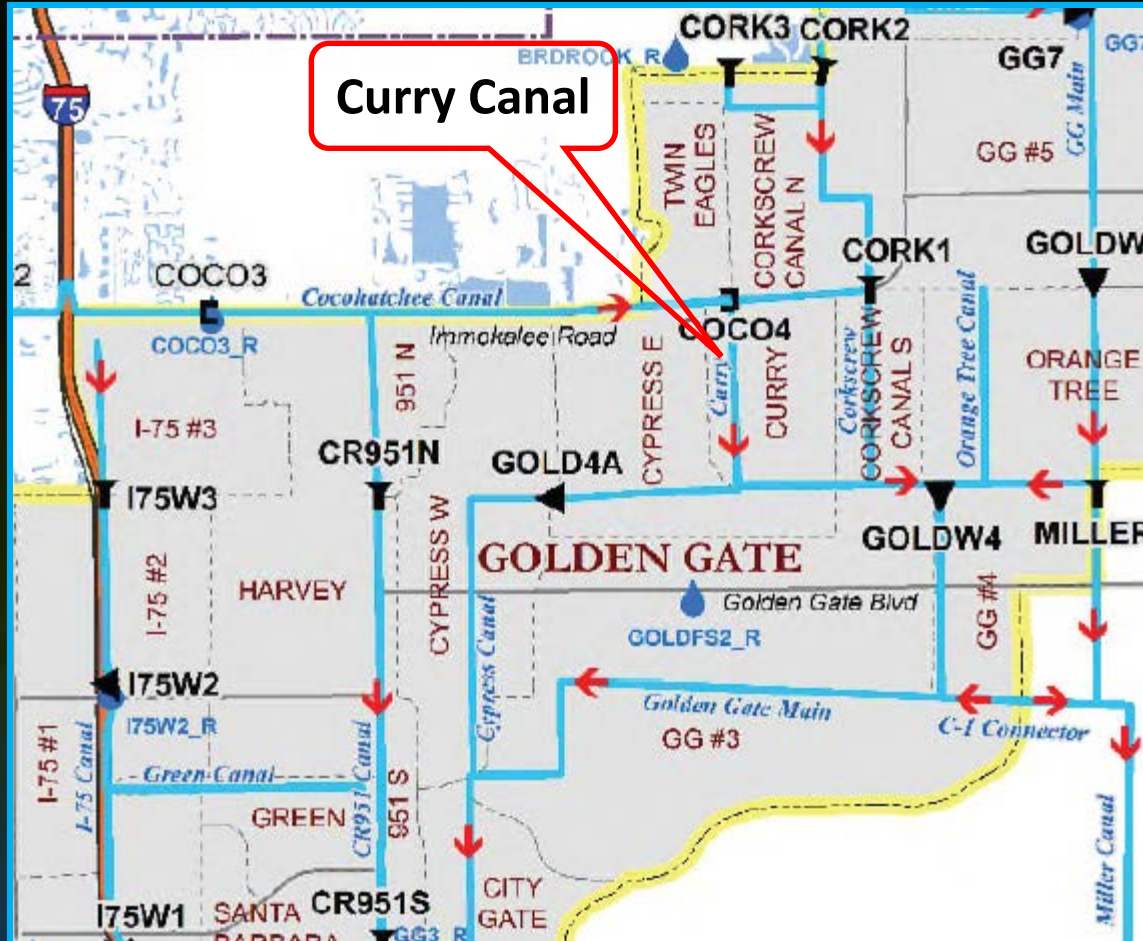


**Control Building is Complete**



**North Elevation of Structure**

# Curry Canal Structure



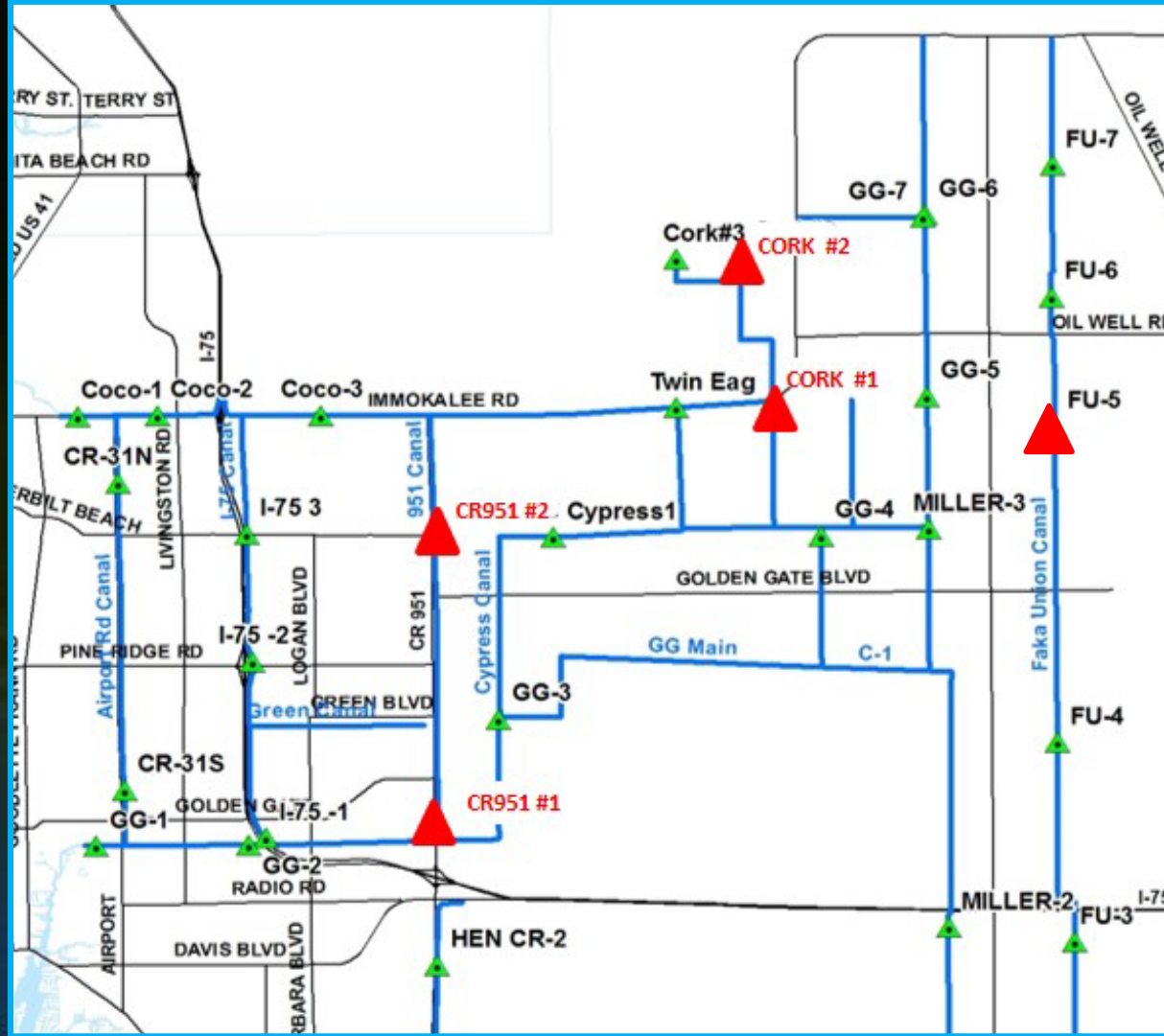
## Curry Canal Structure



**East Driveway**

- SCADA certified the site on June 5, 2019
- Change Order #1 issued to Contractor for \$68,170.82
- Project is 99% complete
- Remaining work to be completed includes: Final commissioning of structure and right of way permit closeout

# Electrification & Remote Operations



**CORK1**

## Electrification & Remote Operations

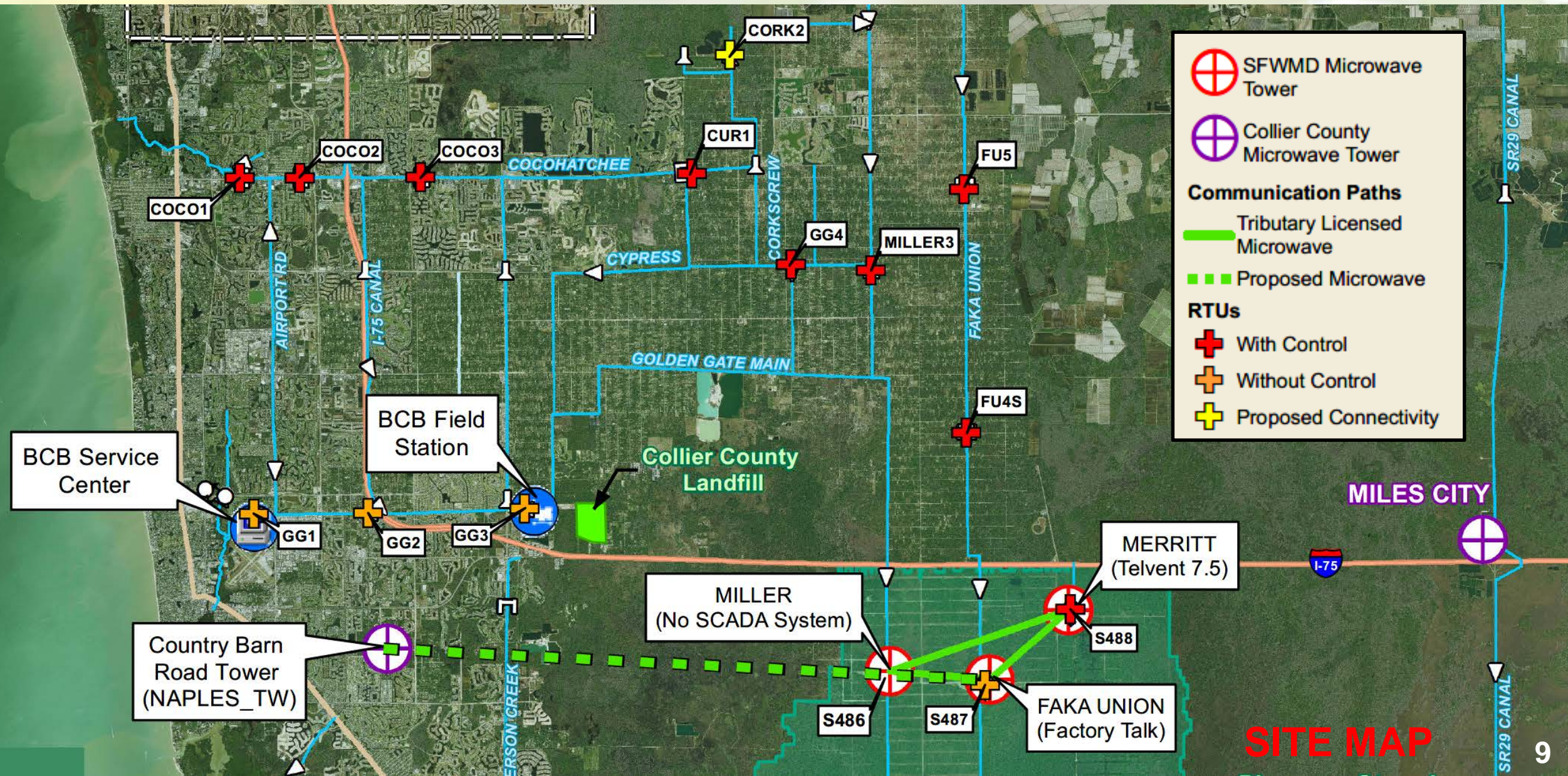
- Design work order executed with CSA Central in Sep 2017, total work order amount with revisions \$562,286
- Package 1:
  - CORK1, CR951-1, CR951-2 – add powered operations only
  - Engineer's Estimate \$373,625
  - Bids are due September 19, 2019

| Fiscal Year | Budget          | Committed |
|-------------|-----------------|-----------|
| 2016/2017   | \$600,000       | \$424,931 |
| 2017/2018   | \$0             | \$9,048   |
| 2018/2019   | \$1,300,000(*)  | \$128,307 |
| Total       | \$1,900,000(**) | \$562,286 |

\* \$877,417 funds transferred off project due to real estate delays leaving \$422,583

\*\* Adjusted total budget \$1,022,583

# Remote Monitoring and Communication



## Remote Monitoring and Communication

- **GG1, GG2, & GG3: executed work order to upgrade the control panels, programming and testing**
- **Telemetry installations and site work was completed on July 11, 2019 for COCO1, COCO2, COCO3, FU4S, FU5, GG1**
- **Microwave link between County Barn Road Tower and FAKA Union Tower: executed contracts for base stations, antennas, radios, tower analysis, and tower equipment and wiring installations**

| Fiscal Year | Budget      | Committed    |
|-------------|-------------|--------------|
| 2016/2017   | \$400,000   | \$83,000     |
| 2017/2018   | \$476,911   | \$492,259    |
| 2018/2019   | \$575,000   | \$675,721(*) |
| Total       | \$1,451,911 | \$1,250,980  |

\* \$100,721 transferred onto project to support the multi-phased work

## Cypress Canal Control Structure #1 Relocation South of VBR

- Project scope: design and construction of a remotely operable structure
- Canal realignment and Structure relocation needed due to County's Vanderbilt Beach Rd expansion
- Structure has also reached end of service life
- Available county-owned land for construction of structure identified



# Cypress Canal Control Structure #1 Relocation South of VBR

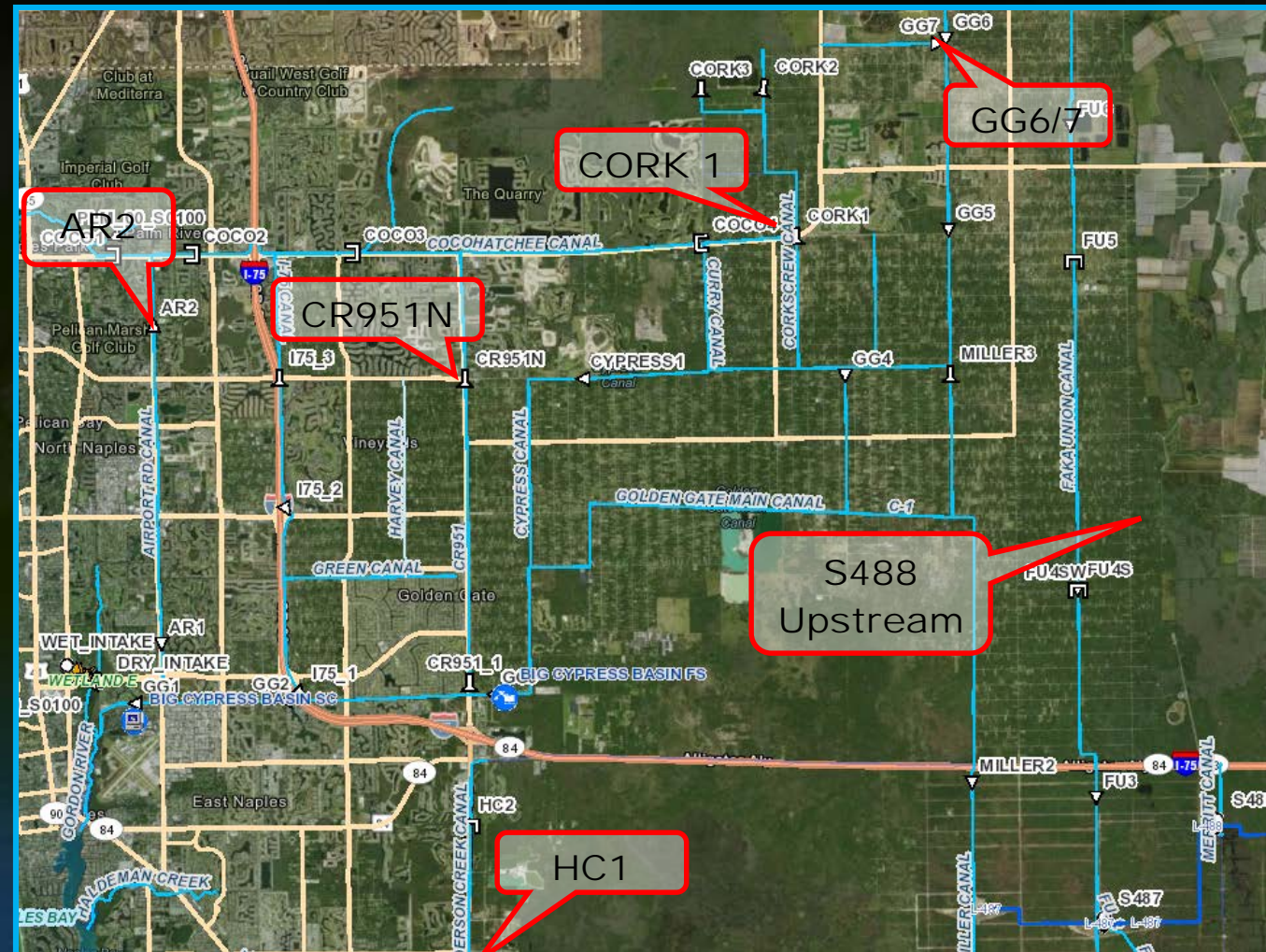


## Cypress Canal Control Structure #1 Relocation South of VBR

- Canal realignment and structure relocation needed due to County's Vanderbilt Beach Rd expansion, and the structure has also reached its end of service life
- Design of a remotely operable structure has been sited on available county-owned land
- Design contract awarded to R J Behar Company, Inc.,
- Geotech and Survey is complete and Preliminary Design deliverable is in review
- Anticipated construction start Sept 2020

| Fiscal Year | Budget    | Committed |
|-------------|-----------|-----------|
| 2018/2019   | \$400,000 | \$394,349 |

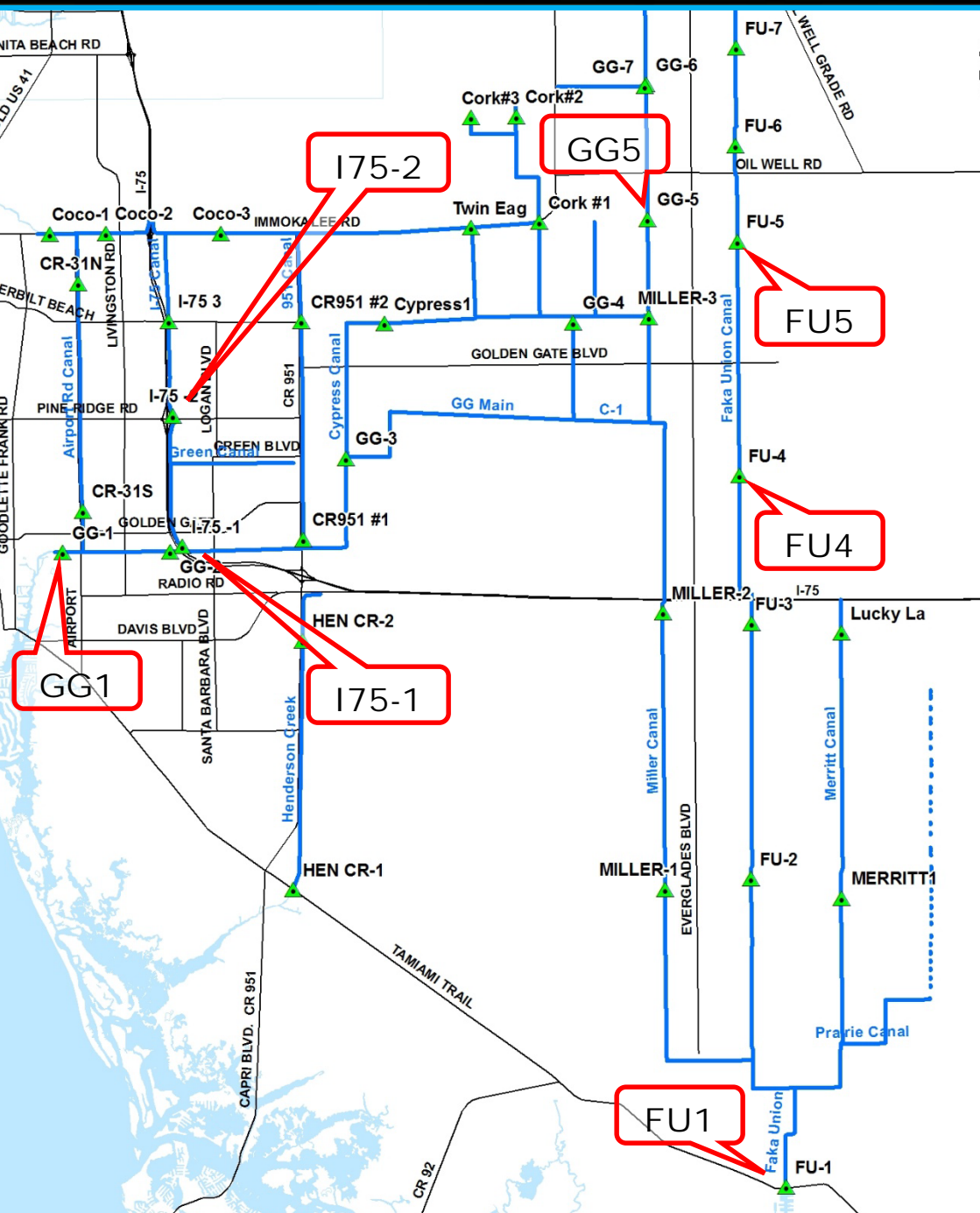
# SCADA Replacements



## SCADA Replacements

- **New Stilling Well Platforms and SCADA upgrades at the following sites: ARN HW & TW, S488 Upstream, GG6/GG7 TW, CORK1 TW, CR951N TW, & HC1 HW**
- **Survey Work Order executed with AIM Engineering, Inc. for \$53,561**
- **Construction package in design**
- **Purchase Loggernet Radios for 49 Sites to replace obsolete equipment for \$366,447**

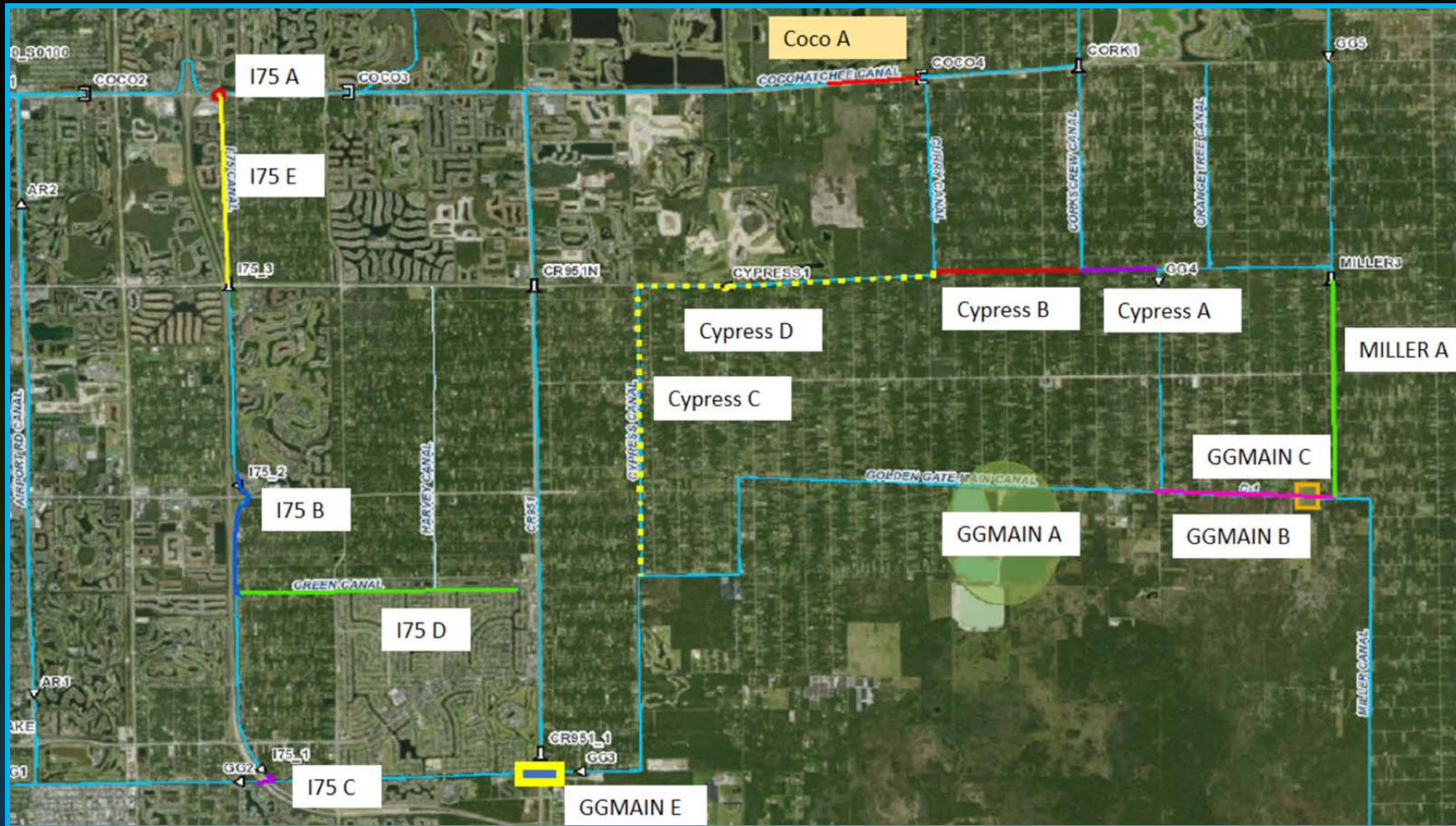
| Fiscal Year | Budget    | Committed |
|-------------|-----------|-----------|
| 2018/2019   | \$426,000 | \$420,008 |



## Structure Inspection Program

- Inspected 7 sites in FY19
- **GG1:** Piping at the end of the apron between the concrete and the sheet piling in Bay 2. The recommended action is to pump expandable grout type material into the voids. Evaluate corrosion on the sheet piling and repair spalls in stoplog sills.
- **I75-2:** Replace heavily corroded stoplog channels and repair spalls and cracks in the abutment walls.

# Canal Improvements



- Prioritized Canal Systems from LOS include: I75, Miller, C1 Connector, and Cypress Canals
- FY19 Executed Curry & Cypress Canal Surveys for \$92,440 and GGM/I75 Geotech for \$2,380

# Approved Fiscal Year 2018-2019 Capital Budget

| BCB Capital Projects                     | Fiscal Year<br>2018-19<br>Adopted | Transfers In<br>/ Out | Fiscal Year<br>2018-19<br>Modified<br>Adopted | Contractual<br>Commitments | Available<br>Funds | Additional<br>Funding<br>Needs |
|------------------------------------------|-----------------------------------|-----------------------|-----------------------------------------------|----------------------------|--------------------|--------------------------------|
| Structure Inspection Program             | \$225,000                         | (\$165,421)           | \$59,579                                      | \$59,579                   | \$0                | \$0                            |
| SCADA Replacements                       | \$426,000                         | (\$5,992)             | \$420,008                                     | \$420,008                  | \$0                | \$0                            |
| Remote Monitoring and<br>Communications  | \$575,000                         | \$100,721             | \$675,721                                     | \$675,721                  | \$0                | \$0                            |
| Golden Gate Weir #4<br>Replacement       | \$1,646,360                       | \$216,757             | \$1,863,117                                   | \$1,846,678                | \$16,439           | \$561                          |
| Cypress #1 Structure Relocation          | \$400,000                         | (\$5,651)             | \$394,349                                     | \$394,349                  | \$0                | \$0                            |
| Electrification and Remote<br>Operations | \$1,300,000                       | (\$877,417)           | \$422,583                                     | \$128,307                  | \$294,997          | \$0                            |
| I-75 / Coco Interconnect                 | \$500,000                         | \$0                   | \$500,000                                     | \$500,000                  | \$0                | \$0                            |
| Canal Improvements                       | \$0                               | \$94,821              | \$94,821                                      | \$94,821                   | \$0                | \$0                            |
| Curry Canal Structure                    | \$0                               | \$100,962             | \$100,962                                     | \$100,962                  | \$0                | \$0                            |
| Henderson Creek #1                       | \$0                               | \$141,220             | \$141,220                                     | \$141,220                  | \$0                | \$0                            |
| <b>Total - Capital Projects</b>          | <b>\$5,072,360</b>                | <b>(\$400,000)</b>    | <b>\$4,672,360</b>                            | <b>\$4,361,645</b>         | <b>\$310,715</b>   | <b>\$561</b>                   |

## Questions?

