



Big Cypress Basin Capital Project Update

Jeff Kivett, P.E., Division Director
Operations, Engineering and Construction

July 2015

Miller Weir #3 Replacement

- Final Completion successfully achieved on May 12, 2015
- Field Station has accepted for O&M



Scour and Riprap Repairs (GG 1, 6, & 7 and COCO 1, 2, & 3 and FU 4)

- **All sites were field surveyed**

- Priorities ranked FU 4 highest for repairs and GG 1 the lowest.

- **Faka Union #4**

- Design completed, temporary construction easement acquisition completed, and Engineer's estimate at \$360k.
- Scheduled for bid Mid-July, NTP in August and completion in January 2016.

- **COCO 1 and COCO 3**

- Scheduled for riprap repairs over 2 dry seasons in FY16 and FY17 by Field Station.

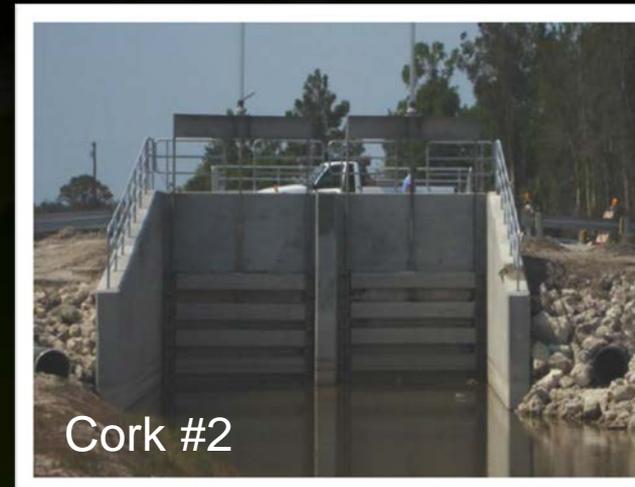
- **COCO 2 and GG 1**

- scheduled for construction in FY17.

- **No repairs required for GG 6 and GG 7 after evaluation.**

Cork 1&2 and CR951 1&2 Electrification

- Final Design completed March 23, 2015
- Field Station resource constraints will require a construction contract to install
- Gate modifications added to the current design for Cork #2 and CR951 #2.
- Complete design of gate modifications and bid package in FY16, construct in FY17/18.



BCB Fall Protection

- **Design changed from active to passive fall protection**
- **Phase 1 Package**
 - **GG 1, GG 2, GG 3, FU 4, ARS/CR31, CR951-1, HEN 2, I75-1, and I75-2.**
 - **Design is complete for Phase 1**
 - **Construction NTP scheduled for August 2015, with a 4 month contract duration.**
 - **Engineer's estimate is \$450K**
- **Phase 2**
 - **COCO 1, COCO 2, COCO 3, Cork-1, Cork-2, ARN (CR31), CR951-2, HEN 1, I75-3, and FU 5.**
 - **Phase 2 design to be completed internally in FY16.**
 - **Construction for Phase 2 to commence in FY17.**
 - **Engineer's estimate is \$300K**

BCB SCADA Monitoring

- **Additional New SCADA monitoring infrastructure to be installed in FY16.**
- **Includes Stage Recorders and Rain Gages.**
- **Stage Recorders;**
 - **Twin Eagles (2), I-75#3 (1), FU #6 (1), and CR951#2 (2).**
- **Rain Gages;**
 - **I-75#2 and either GG #6 or GG #7.**
- **Estimated cost \$247,500.**

Golden Gate Weir #4 Replacement

- Due to prioritization of Level of Service Study, current condition of structure will allow the external design to start in FY16.
- Construction will be scheduled for the end of FY17.



28th Avenue Southeast Bridge Replacement

Cost Share Project with Collier County

- Substantial Completion met on June 30.
- Removal of temporary crossing and punch list items in progress.





Big Cypress Basin Field Station Relocation Project Update

Construction Phase

Schedule

- April 2015 Issue NTP for Phase 2 (Issued 4-8-15)
- April 2016 Substantial Completion
- May 2016 Final Completion

Cost

\$6,730,359

Key Activities Completed to Date

- Obtained all required permits
- Completed survey and staking
- Installed sediment controls and perimeter fencing
- Cleared and grubbed the site
- Excavated turn lane on City Gate Boulevard North
- Set transformer pad and pulled electrical conduits
- Water distribution system work including tap, main extension and hydrant relocation
- Imported and compacted fill material for building foundations
- Installed U/G plumbing and elect. conduit for Admin, Maintenance and Covered Storage buildings
- Poured footings for Admin, Maintenance and Covered Storage buildings
- Prepared and poured casting beds for tilt panels.

Construction Phase

Turn lane along City Gate Boulevard North



Construction Phase

Conduit Risers for Buildings Installed



Construction Phase

Tilt Wall Panel Layout in Progress





Big Cypress Basin Capital Program Update

BCB Capital Program (Option 1)

BCB Capital Projects	FY16 Tentative	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total (FY16-FY25)
Structure Inspection Program	\$0	\$0	\$225,000	\$225,000	\$0	\$0	\$0	\$225,000	\$225,000	\$0	\$900,000
Henderson Creek Weir #2 Retrofit	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Miller Weir #3 Rehabilitation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Fall Protection	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
BCB Level Of Service Assessment	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
BCB SCADA Monitoring	\$247,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$247,500
Prioritized Projects											
Golden Gate #1, 6 & 7 Scouring / Slab Repair	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000
COCO 1, 2 3 & Faka Union #4 Scouring Repair	\$200,000	\$700,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$900,000
Remote Monitoring and Communication	\$0	\$320,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$420,000
Golden Gate Weir #4 Replacement	\$100,000	\$350,000	\$1,200,000	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,650,000
Faka Union Canal Weir #6 Replacement	\$0	\$0	\$50,000	\$0	\$391,000	\$782,000	\$0	\$0	\$0	\$0	\$1,223,000
Cypress Canal Weir #4A1 Retrofit	\$0	\$50,000	\$0	\$335,500	\$671,000	\$0	\$0	\$0	\$0	\$0	\$1,056,500
Cork 1 & 2 and CR951 1 & 2 Electrification	\$0	\$420,000	\$300,000	\$0	\$740,000	\$0	\$1,020,000	\$0	\$0	\$0	\$2,480,000
NAVD88 Conversion	\$0	\$445,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$445,000
Curry Culvert Gate Retrofit	\$0	\$50,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550,000
Faka Union Canal Weir #7 Replacement	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$239,800	\$479,600	\$0	\$769,400
Golden Gate Canal Weir #5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Barron River Control Structure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$402,667	\$452,667
C-1 Connector Canal Control Gate	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000
Other Capital Projects											
BCB Field Station Design & Construction	\$1,132,878	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,132,878
Henderson Creek Diversion	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B. Sub-Total - Capital Projects	\$1,930,378	\$2,835,000	\$2,375,000	\$2,560,500	\$1,802,000	\$832,000	\$1,020,000	\$464,800	\$754,600	\$452,667	\$15,026,945

BCB Capital Program (Option 2) (Recommended)

BCB Capital Projects	FY16 Tentative	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	Total (FY16-FY25)
Structure Inspection Program	\$0	\$0	\$225,000	\$225,000	\$0	\$0	\$0	\$225,000	\$225,000	\$0	\$900,000
Henderson Creek Weir #2 Retrofit	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Miller Weir #3 Rehabilitation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Fall Protection	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000
BCB Level Of Service Assessment	\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
BCB SCADA Monitoring	\$247,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$247,500
Prioritized Projects											
Golden Gate #1, 6 & 7 Scouring / Slab Repair	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000
COCO 1, 2 3 & Faka Union #4 Scouring Repair	\$200,000	\$700,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$900,000
Remote Monitoring and Communication	\$0	\$320,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$420,000
Golden Gate Weir #4 Replacement	\$450,000	\$200,000	\$2,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$3,650,000
Faka Union Canal Weir #6 Replacement	\$0	\$0	\$50,000	\$0	\$391,000	\$782,000	\$0	\$0	\$0	\$0	\$1,223,000
Cypress Canal Weir #4A1 Retrofit	\$0	\$50,000	\$0	\$335,500	\$671,000	\$0	\$0	\$0	\$0	\$0	\$1,056,500
Cork 1 & 2 and CR951 1 & 2 Electrification	\$0	\$420,000	\$300,000	\$0	\$740,000	\$0	\$1,020,000	\$0	\$0	\$0	\$2,480,000
NAVD88 Conversion	\$0	\$445,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$445,000
Curry Culvert Gate Retrofit	\$50,000	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550,000
Faka Union Canal Weir #7 Replacement	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0	\$239,800	\$479,600	\$0	\$769,400
Golden Gate Canal Weir #5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Barron River Control Structure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$402,667	\$452,667
C-1 Connector Canal Control Gate	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000	\$50,000
Other Capital Projects											
BCB Field Station Design & Construction	\$1,132,878	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,132,878
Henderson Creek Diversion	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B. Sub-Total - Capital Projects	\$2,330,378	\$3,135,000	\$2,675,000	\$1,560,500	\$1,802,000	\$832,000	\$1,020,000	\$464,800	\$754,600	\$452,667	\$15,026,945

Questions?

