

Dona Bay Conveyance Improvements

CIP # 75501

Last updated: November 2016

Phase 1 PROJECT SCHEDULE

Design Start

April 20, 2010

Design Finish

Jan. 14, 2015

Construction Start

May 14, 2015

Construction Completion

Spring 2017

DESIGN DETAILS

Consultant

Kimley-Horn and Associates, Inc.

Phase 1

Design Contract Cost

\$2,297,108.00

CONSTRUCTION

DETAILS

Contractor

Glover Construction

Construction

Contract Cost

\$10,939,979.24

PROJECT TEAM

Construction PM

Ty Overmyer
tovermye@scgov.net

County Operations

Manager

Lori Ann Carroll

Design PM

Mike Jones
Peter Peduzzi

Phase 1 Service during

Construction

Stantec Consulting Services, Inc.

Project Description

In 2005, the County teamed with the Southwest Florida Water Management District (SWFWMD) to develop the Dona Bay Watershed Management Plan (DBWMP) using the principles of Comprehensive Watershed Management that are consistent with guidelines established by the U.S. Environmental Protection Agency. The Dona Bay Watershed has been significantly impacted by man-made drainage activities, which increased the volume of freshwater entering its tidal estuary. A portion of the Myakka watershed has been diverted to Dona Bay by the man-made Cow Pen Slough (CPS) canal, increasing the watershed size from 15 to 75 square miles. The DBWMP concluded that it is possible to simultaneously attain watershed improvements, reduce freshwater flows to the estuary and provide up to 15 million gallons a day for public water supply.

Phase 1 Conveyance Improvements will divert a portion of the flow from Cow Pen Slough through a proposed conveyance system into several wet detention areas and the Pinelands wetland area for rehydration. The future Phase 2 Surface Water Storage Facility will provide a conveyance segment to convert the Venice Minerals Mine borrow pit into a large-scale regional stormwater surface storage area and a future source of public water supply.

The treatment system is designed to reduce nutrient levels, peak flows, and the volume of freshwater currently discharging to Dona Bay. The ultimate treatment system will provide regional storage, increased residence time for surface water prior to reentering CPS and Salt Creek, flowing south to Dona Bay. Once implemented, the project will permanently modify control and conveyance in the watershed, and provide multiple benefits to varying degrees, based upon weather patterns and the County's ability to balance the priorities of the community against the basic goals and objectives of the Dona Bay Management Plan.

The measurable benefits for the Dona Bay Conveyance System include creation and enhancement of 280 acres of wet detention and 83 acres of wetland rehydration. The project is cooperatively match funded by SWFWMD multi-year and non-matching Florida Department of Environmental Protection (FDEP) grants. The SWFWMD grant is sharing costs for the water quality benefits (lakes, pond and control structures) and FDEP non-match grant is co-sharing costs for the Albritton Control Structure replacement.

Project Progress/Status

Anticipated future work/construction activities Aug. 1, 2016-Oct. 31, 2016:

1. Continue excavation of the bypass ditch and embankment;
2. Continue excavation of the North Pinelands storage facility and construction of west berm;
3. Complete construction of CS-01 structure, removal of Albritton Weir structure, and remove temporary-bypass channel; and
4. Continue installation of 72" RCP and related components.

The Phase 1 construction duration is 720 calendar days with an estimated completion in Spring 2017. Construction work is now 70 percent complete.

