

**SEMINOLE COUNTY GOVERNMENT
AGENDA MEMORANDUM**

SUBJECT: Lockhart – Smith Canal Drainage Project

DEPARTMENT: Public Works **DIVISION:** Road Operations and Stormwater

AUTHORIZED BY: W. Gary Johnson, PE **CONTACT:** Mark Flomerfelt, PE **EXT.** 5710
Director, Public Works Mgr, Road Operations & Stormwater

Agenda Date <u>11/12/02</u>	Regular <input type="checkbox"/>	Consent <input type="checkbox"/>	Work Session <input type="checkbox"/>	Briefing <input checked="" type="checkbox"/>
	Public Hearing – 1:30 <input type="checkbox"/>		Public Hearing – 7:00 <input type="checkbox"/>	

MOTION/RECOMMENDATION: Authorization for continuation of the project and approval to begin negotiations to purchase permanent drainage easements for the project.

BACKGROUND: The Lockhart-Smith Canal is a historic drainage system in northwest Seminole County which was constructed in 1930. The primary canal system provides drainage for more than 12 square miles of northwest Seminole County. The project will focus on the segment north of I-4 to the St. Johns River. The system has not been maintained for approximately 50 years because there are no dedicated easements. This project will reconstruct the channel, stabilize the banks, and reduce potential for flooding as well as provide access for regular maintenance to the canal.

Attachment: Slide Presentation

Reviewed by:
Co Atty: <u>N/A</u>
DFS: <u>N/A</u>
Other: <u>N/A</u>
DCM: <u>[Signature]</u>
CM: <u>[Signature]</u>
File No. <u>BPWS01</u>

**Seminole County's Road Operations
and Stormwater Division**



**Lockhart – Smith Canal
Drainage Project**

Lockhart-Smith Canal

Historical Background

Current Conditions

Proposed Project

BCC Direction Needed

Conveyance Acquisition Program



3

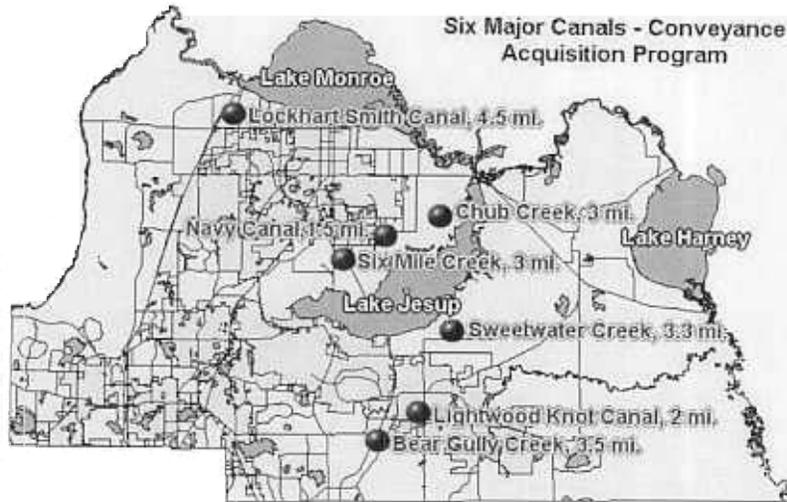
Purpose

Acquire drainage easements through donation, over existing primary drainage channels throughout county to:

- Reconstruct channels to functional condition
- Provide access for regular maintenance
- Enhance flood protection and water quality
- Connect gaps in county's primary drainage system
- Improve effectiveness of secondary systems

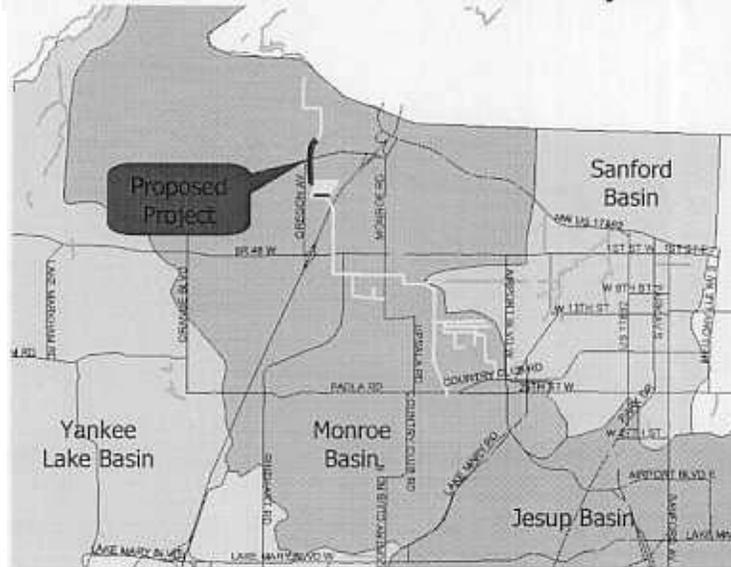
4

Major Canals / Primary Systems



5

Lockhart-Smith Canal System



6

Lockhart-Smith Canal

Historical Background

- Total length of canal system is nearly 10 miles.
- Main drainage outfall for 12.4 square miles (7,900 Acres) of Northwest Seminole County.
- Discharges directly to the St. John's River (an Impaired Water Body).
- Designed in 1929 By Fred Williams, County Engineer.
- Originally constructed as a Joint Project with Farmers and BCC as the "West Sanford Drainage Project".
- County assistance with maintenance (last dragline work, late 1950's).
- Ongoing issue concerning Easements (last looked at in 1985) .
- Located in Northwest Seminole County, currently experiencing intense development.

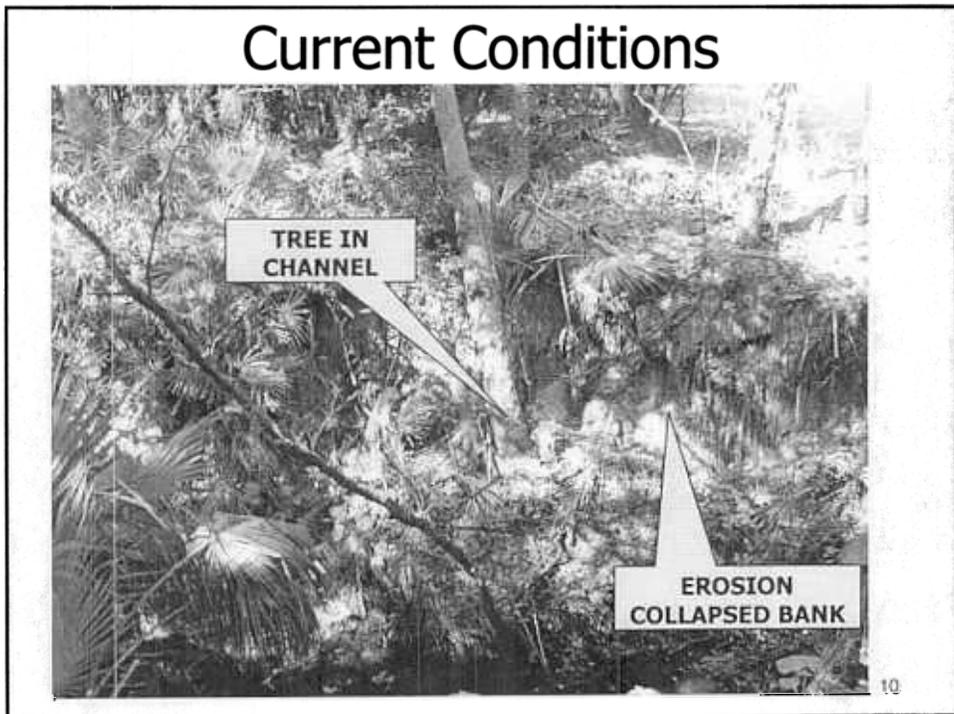
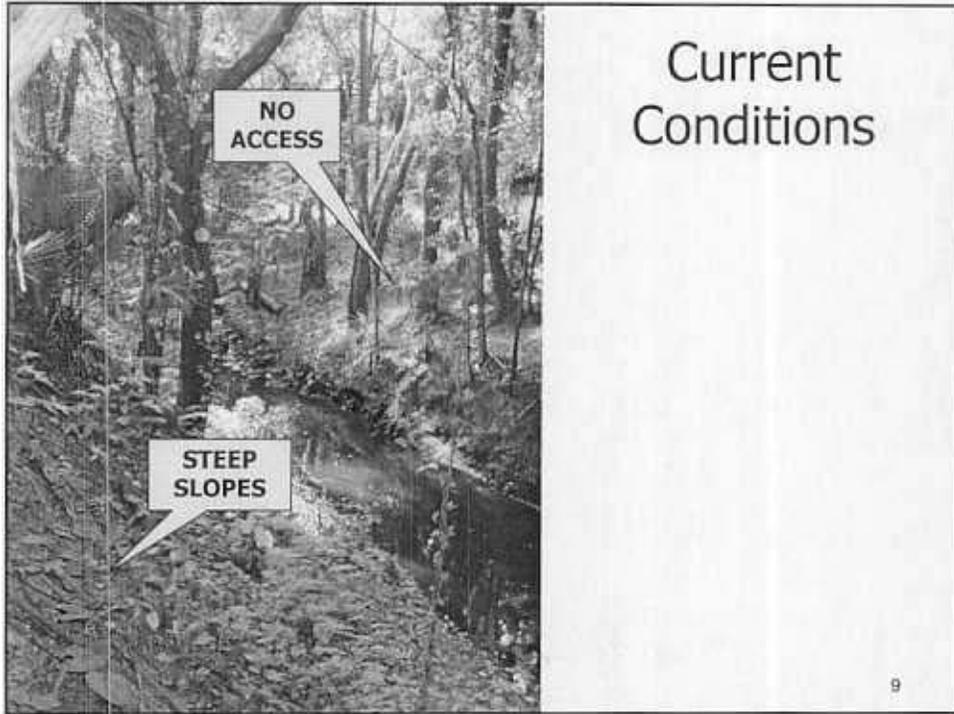
7

Lockhart-Smith Canal

Current Conditions

- Upstream area experiencing intense development.
- No maintenance in almost half a century.
- No Dedicated Easements for County Access.
- Severe erosion and unstable banks along canal.
- Upstream properties depend on canal's functionality.
- Canal is deficient and overtops it's banks during 25yr/24hr Storm Event.
- Due to regional nature of the project, residents are not willing to donate but are willing to sell easements.
- Plans and Permit to address erosion, flooding and maintenance are complete.

8



Recent Emergency Reconstruction Canal Bank Collapse



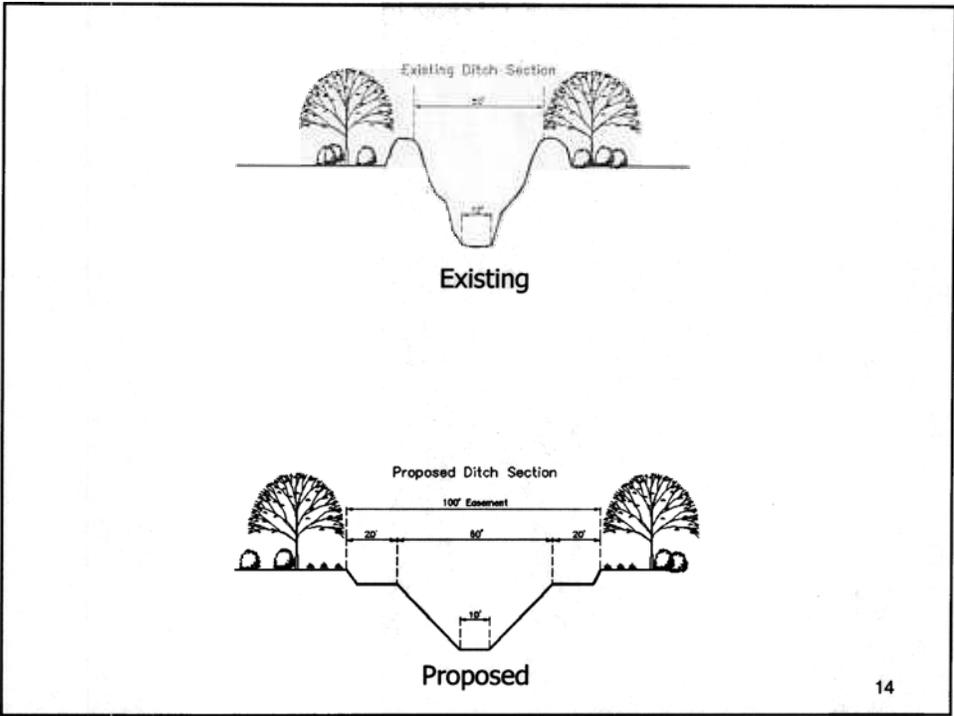
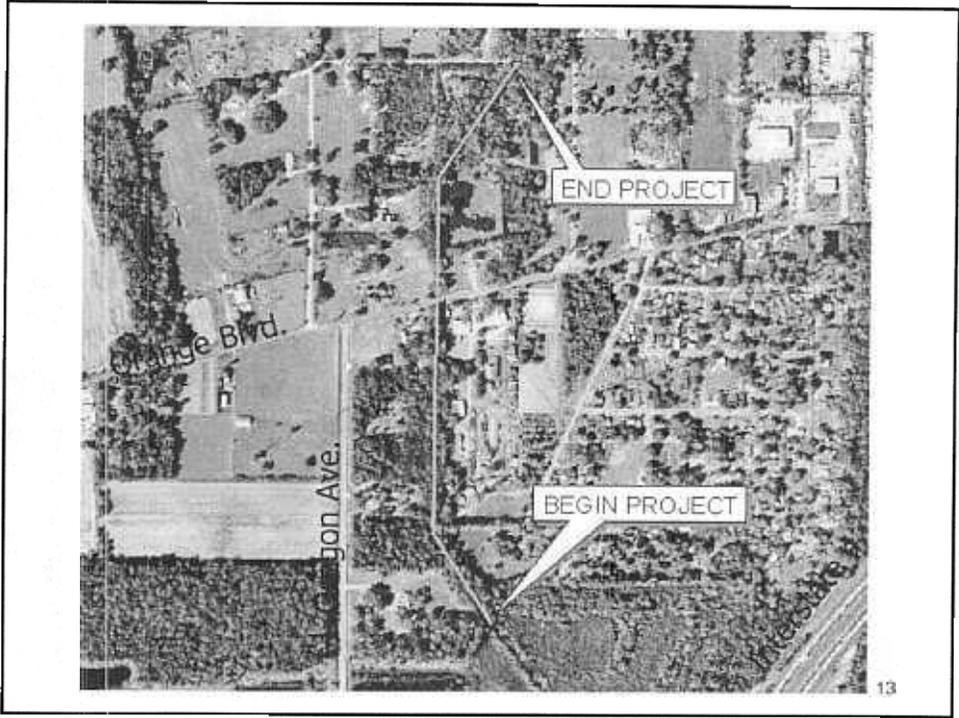
11

Lockhart-Smith Canal

Proposed Project

- Obtain Permanent, Dedicated, Legal Access involving approximately 13 parcels (acquiring 7.7 acres of easements).
- Reconstruct a 3,100 foot segment of the canal.
- Stabilize canal banks to reduce Erosion and Sediments.
- Provide for County maintenance access on each side.
- Reduce potential Flood Hazards.
- Improve Water Quality (St. Johns River and the Lockhart-Smith Canal are listed Impaired Water Bodies).

12



Lockhart-Smith Canal

BCC Direction Needed to Continue Project

- Initiate Land Acquisition process with the County Attorney's Office. (Using Guidelines similar to Major Roadway Acquisition Process)
- Begin negotiations with Owners for acquisition of purchased easements.
- May need Board authorization to condemn.

17

Thank You !



18