

Loxahatchee River District

Water Reclamation | Environmental Education | River Restoration

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D. Albrey Arrington, Ph.D., Executive Director

MEMORANDUM

TO: D. Albrey Arrington, Ph.D.
Executive Director

FROM: Kris Dean, P.E.
Director of Engineering Services

DATE: July 14, 2016

SUBJECT: Director's Report - Engineering Division
July 2016 Board Meeting

Developer Projects

Staff were active on 9 Developer projects including the following activities.

Plan Review: Staff performed plan reviews for the following projects.

Pennock Preserve Phase 2 and 3: A new development on Island Way North. This project will ultimately serve 93 residential homes and include a gravity sewer collection system, lift station and force main with connection to the 8" force main installed along Island Way North in 2014.

Sonoma Isles Residential Phase 2B: This project provides a gravity collection system to serve approximately 41 residential units in the Sonoma Isles development.

Construction: Staff performed construction inspections, shop drawing review, RFI responses and/or attended preconstruction meetings for the following projects.

Bella Villaggio: This project includes a new gravity system to serve 16 units in a multi-family development located off County Line Road.

Walmart: This project includes a revised gravity service installation to serve restrooms located at the front of the store.

Sonoma Isles Residential Phase 2: This project provides a gravity collection system and lift station to serve approximately 275 residential units and club facilities. This project was formerly known as Lakewood and Parcel 19.

Pennock Preserve PUD Phase 1: This project connects Pennock Preserve to the existing Prada development and provides a gravity sewer system to 8 of the 16 residential lots.

Jupiter Country Club Pod D (Phase 2): This project provides the second phase of the gravity

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sewer system to serve 40 residential lots in Jupiter Country Club.

Windsor Park North Phase 1D: A gravity system to serve lots 40-47 where the Windsor Park Sales Center complex was previously located.

Bluffs Marina: This project includes a private lift station and force main with connection to District facilities to serve the marina.

Final Completion: Staff performed final completion activities to include final inspections, record drawings review and punch lists.

None

One Year Inspections: Staff performed one year warranty inspections on the following project.

None

Capital Projects

Staff were active on 15 Capital projects including the following activities.

Design/Bid: Staff are currently in the design or bidding phase for the following projects.

US Force Main Abandonment – Waterway Road to County Line Road: We have determined an alternate to the force main replacement discussed last month. The alternate entails abandonment of the existing force main in US 1 from Schrimshaw to Waterway, connection of the low pressure system from Harbor Road South to Harbor Road North to the gravity system for LS 061 and connection of LS 068 to the force main at LS 061. This will result in abandonment of approximately 4,000 LF of force main in FDOT right of way.

Hibiscus Avenue: This project was re-advertised on July 5, 2016. Bids will be received on August 5, 2016.

Construction: Staff provided construction inspection and engineering oversight for the following projects.

Lift Station Rehabilitations for 2016: This project includes rehabilitation of 3 lift stations.

Cleaning, TV Inspection and Lining Services: The contractor completed TV inspections. Staff are reviewing the final reports and recommendation prior to moving forward with repairs or rehabilitation. The gravity collection systems included are for Lift Stations 57, 58, 62, 65, 66, 68, 94 and 97.

Hyland Terrace Low Pressure Sewer System: This project includes low pressure sewers for Harken Terrace, Whispering Pines Trail, Pine Grove Street, Linden Street, County Line Road and SE Seminole in Martin County.

Consultant Projects:

Master Lift Station Rehabilitation Preliminary Engineering Report: Staff coordinated with the consultant for flow analysis. This project looks at the final phase of rehabilitation for the Master

Lift Station located just east of Pennock Ln and Indiantown Rd. The project will recommend pump replacement, electrical system evaluation, piping modifications, bypass facilities, isolation valves and coatings, which will be completed at a later date.

Alternate A1A Subaqueous Crossing Preliminary Engineering Report: The consultant submitted a draft bypass plan and met with staff to review options. This project looks at the replacement options and emergency bypass pumping plan for the 24” wastewater force main crossing the Loxahatchee River at Alternate A1A.

Loxahatchee River Road IQ Main Replacement: This project replaces the existing aerial crossing just north of the Eagles Nest development with a subaqueous directional drill.

Jupiter Inlet Colony Neighborhood Rehabilitation: This project provides a gravity collection system and lift station to serve the approximate 240 homes and town facilities located in Jupiter Inlet Colony.

Maplewood Drive Force Main: This project installs a new back up force main from LS 21 to the force main in Indian Creek Parkway. A preconstruction meeting was held in June. The contractor should begin work in July.

Jupiter Plantation Force Main Replacement: This project replaces the existing force main from LS 13 in Jupiter Plantation to the gravity collection system in Center St. A preconstruction meeting was held in June. The contractor is currently mobilized and should complete the project in August.

Turtle Creek: Phase 1 of Turtle Creek Drive is currently out to bid. Bids are due at the same time as Hibiscus Ave in an attempt to increase interest in both projects.

Whispering Trails PDR: Staff coordinated with the engineering consultant on the preliminary design for Whispering Trails to determine conceptual layouts and cost estimates for gravity and low pressure sewer systems.

Alternate A1A/Damon Bridge Water Main Replacement and Force Main Installation: Staff performed plan reviews and looked at alternate materials of construction to decrease long term maintenance on the project. This project includes installation of a new 16” force main on the Damon Bridge to replace the existing 24” force main subaqueous crossing of the Loxahatchee River.

Loxahatchee River Road IQ Main Replacement: A project to replace a 16” aerial crossing along Loxahatchee River Road. The project is currently in for a permit revision to add a 4” waste water force main to the project as part of the final extension of the Districts waste water force main system along Loxahatchee River Road.

Other Utility Projects

These projects include plan review, coordination and inspections associated with other utilities such as the Town of Jupiter, Village of Tequesta, Town of Juno Beach, Palm Beach County and Martin Co.

Pine Gardens South: A Town of Jupiter project that provides storm system upgrades in the Pine Gardens South development.

North Jupiter Water Main Improvements: A Town of Jupiter project to replace AC water mains in the north Jupiter area.

Waterway Park: A new boat ramp facility on the Intercoastal and Indiantown Road.

Construction

Staff were involved in various projects including the following activities.

3831 Beacon Hill: Staff installed a gravity service to this address as part of the remnant property sewerage program.

Lift Stations 57, 58, 62, 65, 66, 68, 94 and 97: Staff are systematically working in these areas to locate or install right of way clean outs in coordination with upcoming TV inspections.

Pine Gardens North: Staff completed manhole frame and cover replacements and paving this month.

Miscellaneous

Staff are looking at alternative communication systems for lift stations and low pressure stations. A demonstration is planned with systems being installed along Loxahatchee River Road on existing low pressure stations.

Chippewa Street: Staff worked with residents on Chippewa Street to provide cost estimates and sewerage options. This project is currently on the schedule for 2018 but may be moved ahead on the schedule if more than 50% of residents vote for sewers now.

Signed,



Kris Dean, P.E.
Director of Engineering Services

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