CHARLOTTE COUNTY LAKE VIEW – MIDWAY WATER QUALITY IMPROVEMENTS PROJECT

Preliminary Engineering Report (PER)

Public Meeting

June 13th, 2023



PURPOSE



Preliminary Engineering Report (PER)



Estimated Construction Costs



FDEP SRF Loan Process Requirements



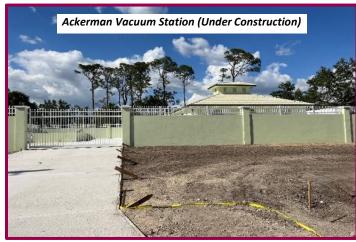
Obtain Acceptance & Approval from BCC



RECENT SEPTIC-TO-SEWER PROJECTS





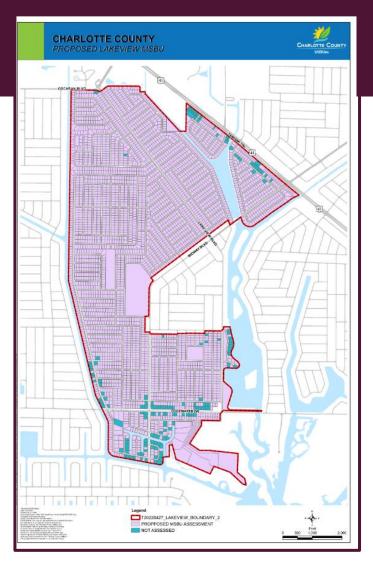






PROJECT OVERVIEW

- "Septic-to-sewer" project
- Primary Goal: Replace septic systems with a centralized sewer collection system.
- The project involves...
 - Preliminary Engineering Report
 - Design Phase
 - Sewer collection mains
 - Wastewater transmission mains
 - Potable water mains
 - Permitting
 - Funding
 - Construction Phase





PRELIMINARY ENGINEERING REPORT OBJECTIVES



Evaluate Sewer Collection System Alternatives



Identify Project Limitations & Define Service Areas



Estimated Costs

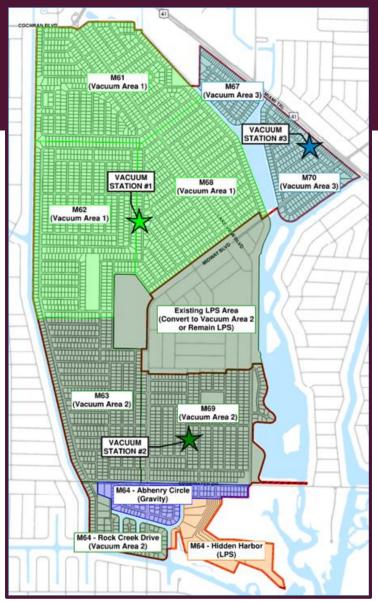


Recommended a Sewer System Plan



RECOMMENDED PLAN (SEWER COLLECTION)

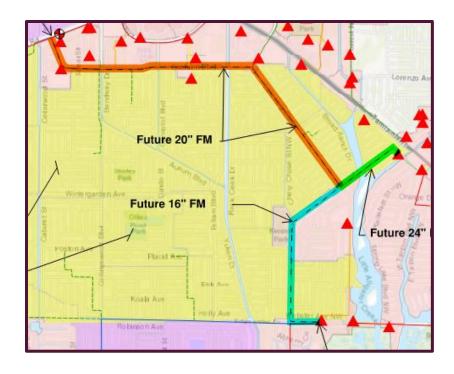
- Design a combination of vacuum sewer, gravity sewer, and LPS:
 - Vacuum sewer for highly developed areas
 - Gravity extensions in areas with existing gravity service
 - Low pressure sewer for one isolated area





RECOMMENDED PLAN (TRANSMISSION MAINS)

- Convey wastewater from project and nearby areas to treatment plant
- 20" FM (Cochran/Toledo Blade) will provide service to the West Port development and growth along SR 776





RECOMMENDED PLAN (WATER MAINS)

- Replace all existing water mains in the project area
- Upgrade water infrastructure to meet current standards
- Coordinate with sewer system installation to minimize community disruption and reduce costs





EXISTING LPS AREA

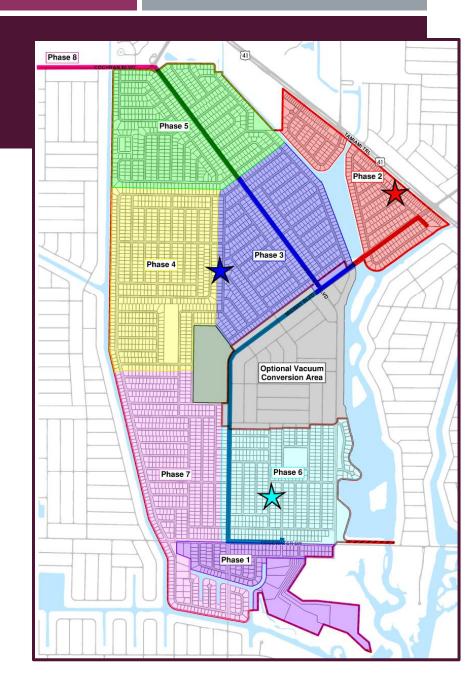
- This area is NOT in the MSBU.
- LPS is being converted to vacuum sewer due to high O&M costs.
- The south vacuum station will handle the flows from this area.





PROJECT PHASING

- First phases coordinated with CCPW projects:
 - Edgewater Phase 3 construction
 - West Ellicott Sidewalk and Midway Pedestrian Bridge
- Second phase independent area
- Construct collection system in logical sequence with transmission mains



COST ESTIMATE DEVELOPMENT



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Two estimates were prepared for the MSBU sewer area.

Current pricing trends... (materials, labor, etc.)

2020 Estimate (CCU Ackerman Pricing)	2022 Estimate (2020+33%)		2023 Dollars (Recent bids)	
\$48,370,000	\$64,170,000		\$57,660,000	
~33% increase in costs from 2020 → 2022		~10% decrease in costs from 2022 → 2023		



ESTIMATED SCHEDULE

Tasks	Years					
	2024	2025	2026	2027	2028	2029
Design / MSBU	_					
Permitting / Funding						
Construction						



PROJECT COST ESTIMATE (IN THE PER)

Project Component	2022 Estimated Cost in PER		
MSBU Area – Sewer Systems	\$64,170,000		
MSBU Area – Water Replacement	\$21,120,000		
Existing LPS Area – Sewer Conversion	\$8,420,000		
Existing LPS Area – Water Replacement	\$2,960,000		
Transmission Mains	\$5,630,000		
TOTAL PROJECT ESTIMATE =	\$102,300,000		



Questions?