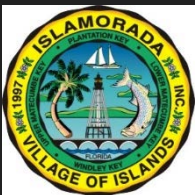


Lower Matecumbe Culvert(s) Project – Canals 150, 151, 152, 153, 155, and 157 Islamorada Village Council Meeting September 2, 2021



Peter Frezza
Environmental
Resources
Manager



Greg Corning, PE
Senior Engineer

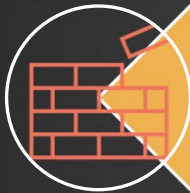
Presentation Topics



Culvert Technology Overview



Proposed Culvert Locations



Public Outreach



Next Steps

Culvert Technology Overview

- Connect two dead end canals with pipes to increase circulation and tidal exchange
- Proven technology with ease of permitting and implementation



- Minimal impacts to residents during construction
- Quick transformation of the water quality after installation with increased dissolved oxygen and fish life

Tasks and Timeline

TASK	SERVICE	MONTHS	EST. COST
TASK 1	Feasibility Evaluation and Community Outreach	2 Months	\$5,700
TASK 2	Data Collection / Processing	4 Months	\$59,000
TASK 3	Design	6 Months	\$49,000
TASK 4	Permitting	9 Months	\$10,300
TASK 5	Contractor Procurement	11 Months	\$4,100

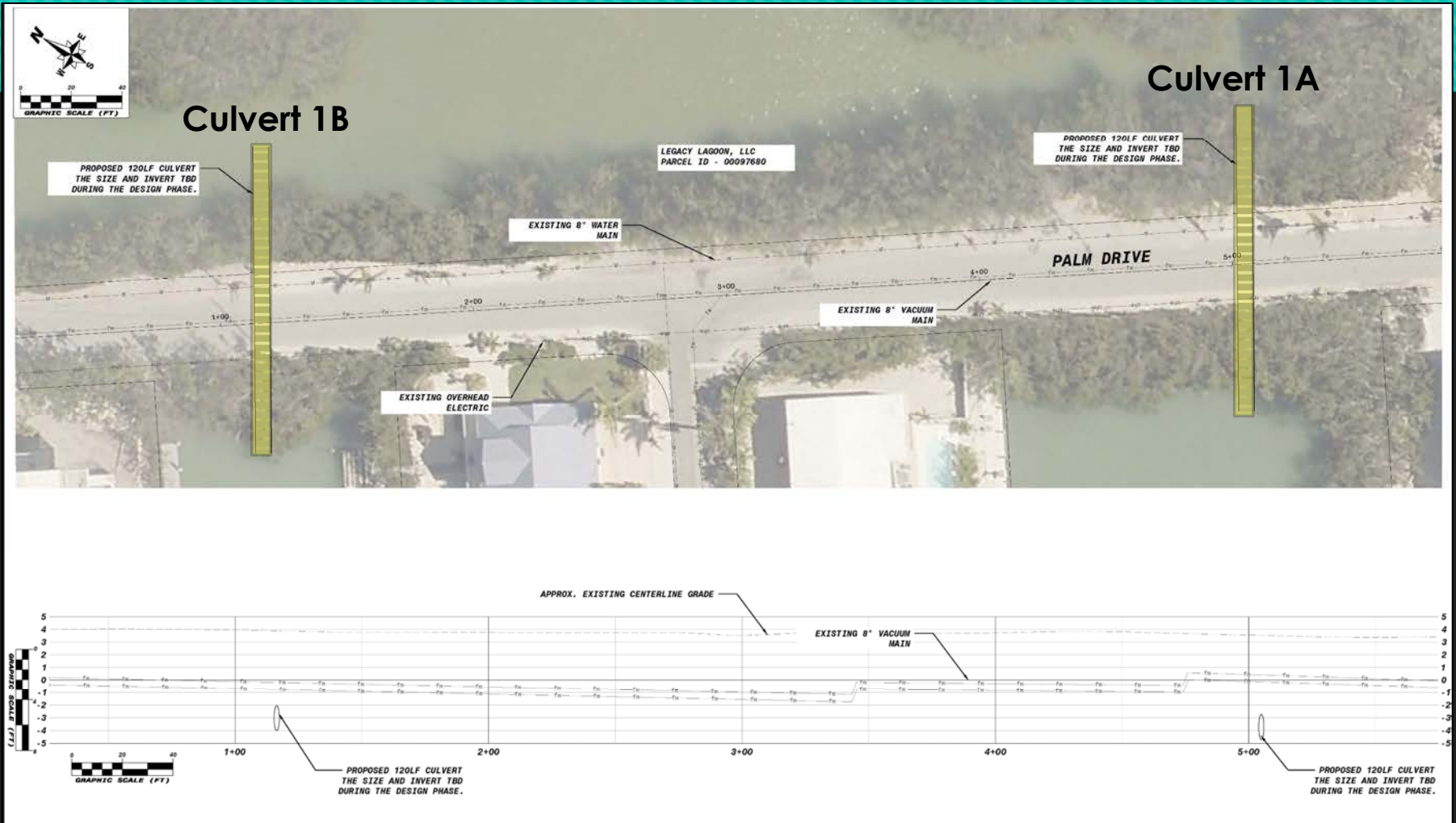
Feasibility

- **Determined utility type and providers within the proposed alignment**
 - **Telephone – AT&T**
 - **Fiber Optics – FDOT VI ITS**
 - **Water – FL Keys Aqueduct**
 - **Electric – FL Keys Electric Cooperative**
 - **Sewer – Islamorada**
- **Created conceptual plan and profile for the culvert locations to identify any sensitive environmental resources, utility and private property impacts**

Proposed Culvert Location #1 – Canal 153 / 155 Palm Drive



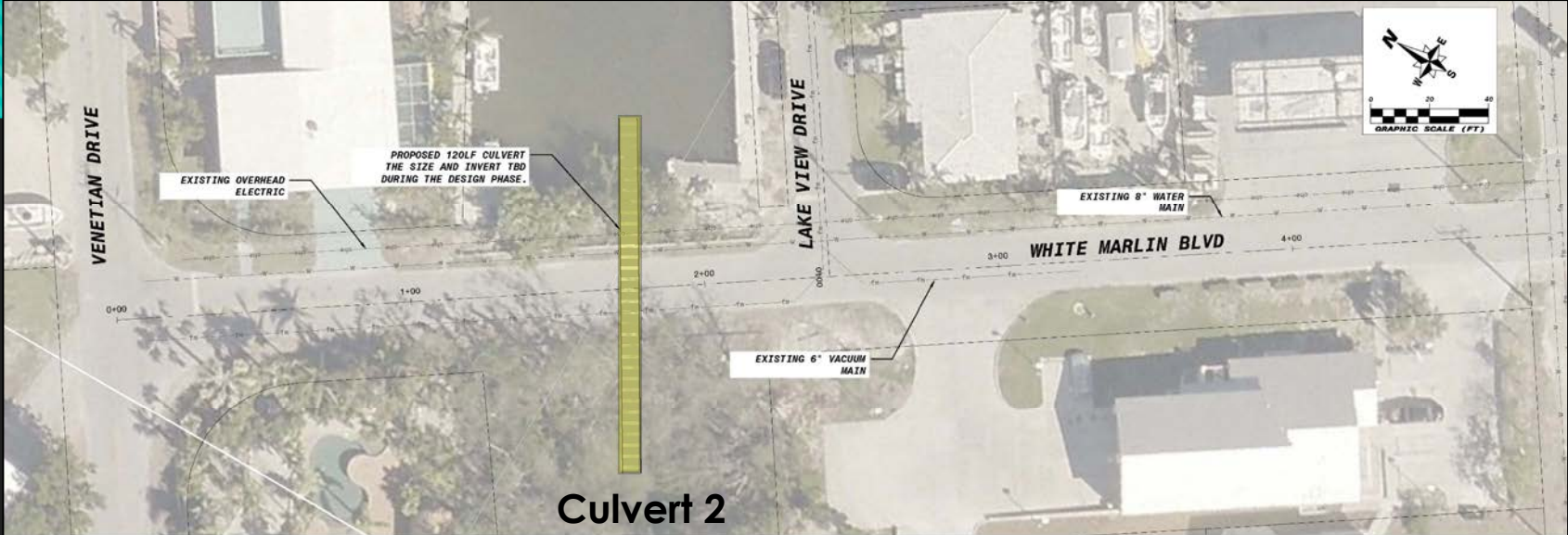
Proposed Culvert(s) - Palm Drive Location #1A & 1B – Canal 153 / 155 – cont.



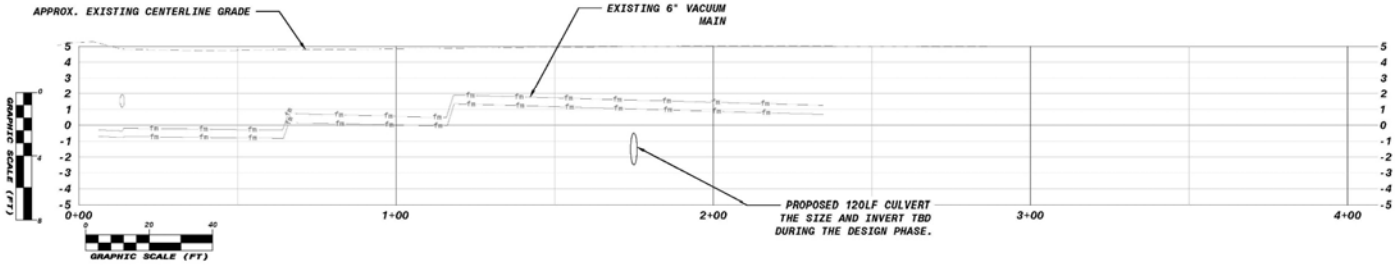
Proposed Culvert Location #2 – Canal 152 / 153 White Marlin Blvd



Proposed Culvert - White Marlin Blvd. Location #2 – Canal 152 / 153 – cont.



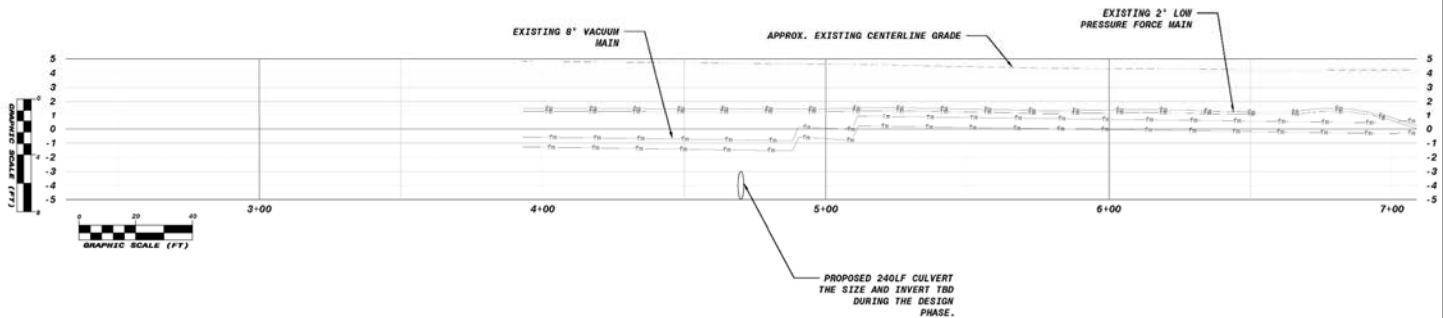
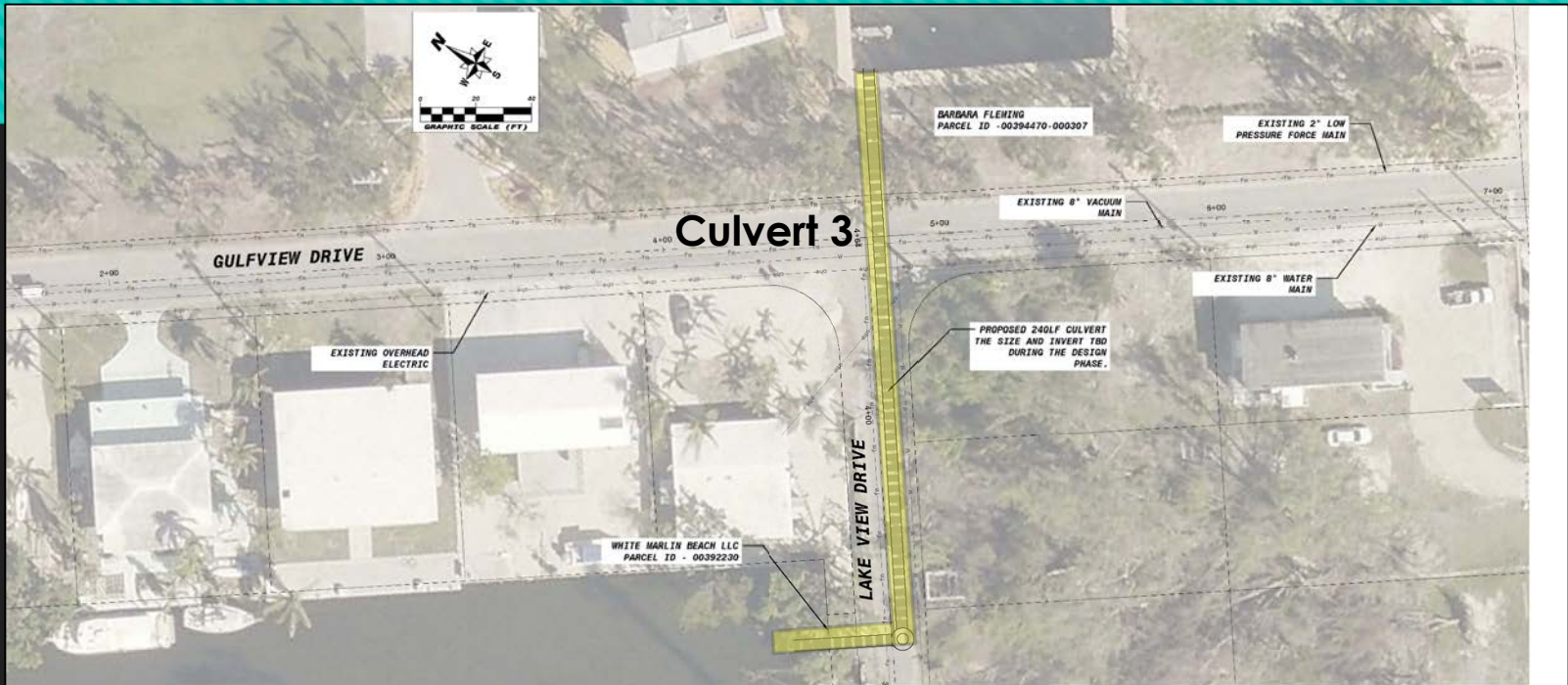
Culvert 2
Location of existing culvert (36")



Proposed Culvert – Gulfview Dr. Location #3 – Canal 150 / 152



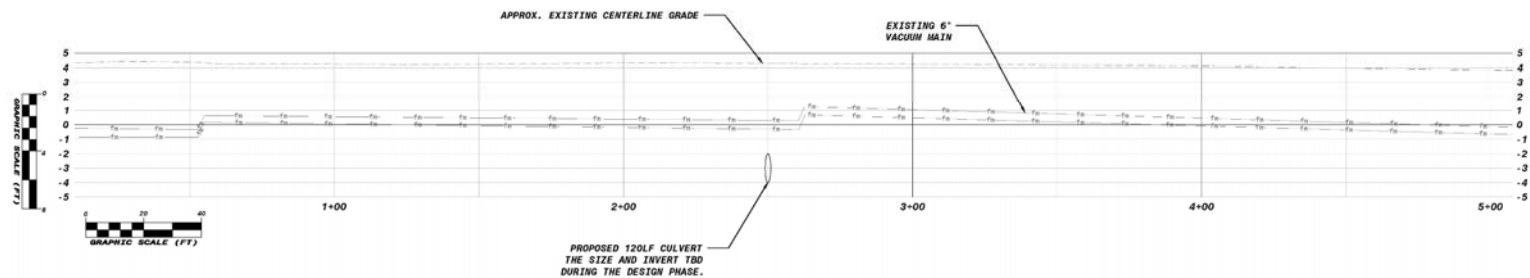
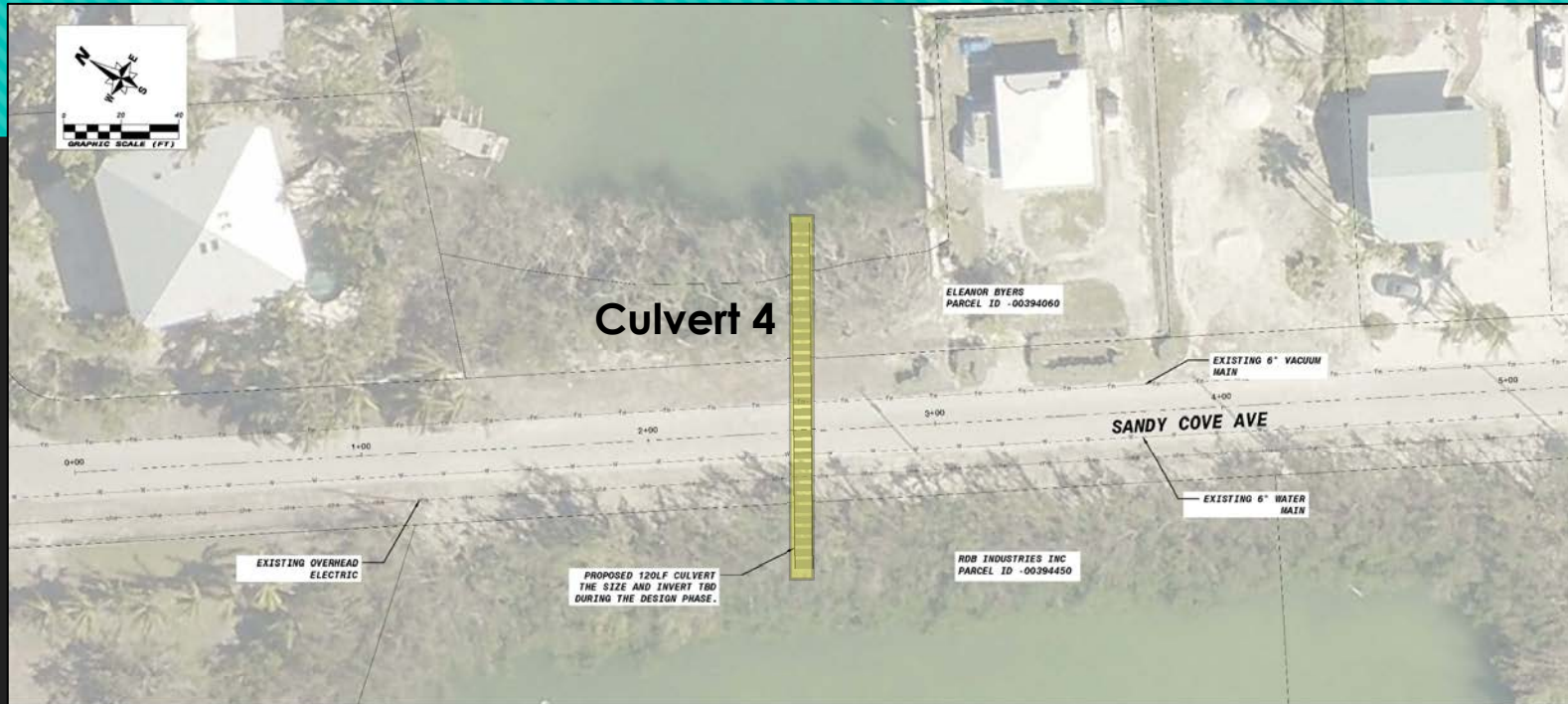
Proposed Culvert – Gulfview Dr. Location #3 – Canal 150 / 152 – cont.



Proposed Culvert – Sandy Cove Ave. Location #4 – Canal 150 / 151



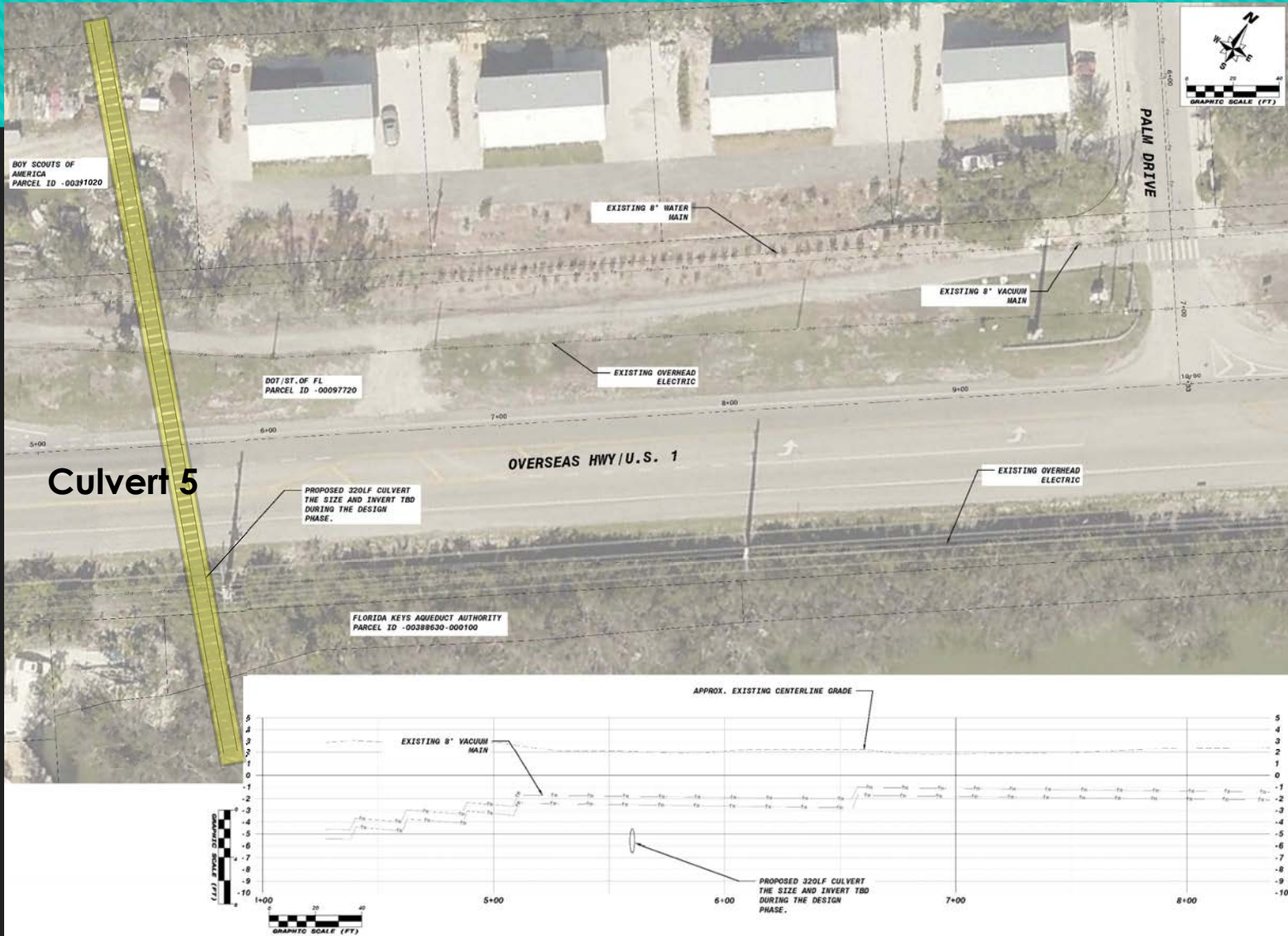
Proposed Culvert - Sandy Cove Ave. Location #4 – Canal 150 / 151 – cont.



Proposed Culvert – Under US1 Location #5 – Canal 155 / 157



Proposed Culvert - Under US1 Location #5 – Canal 155 / 157 – cont.

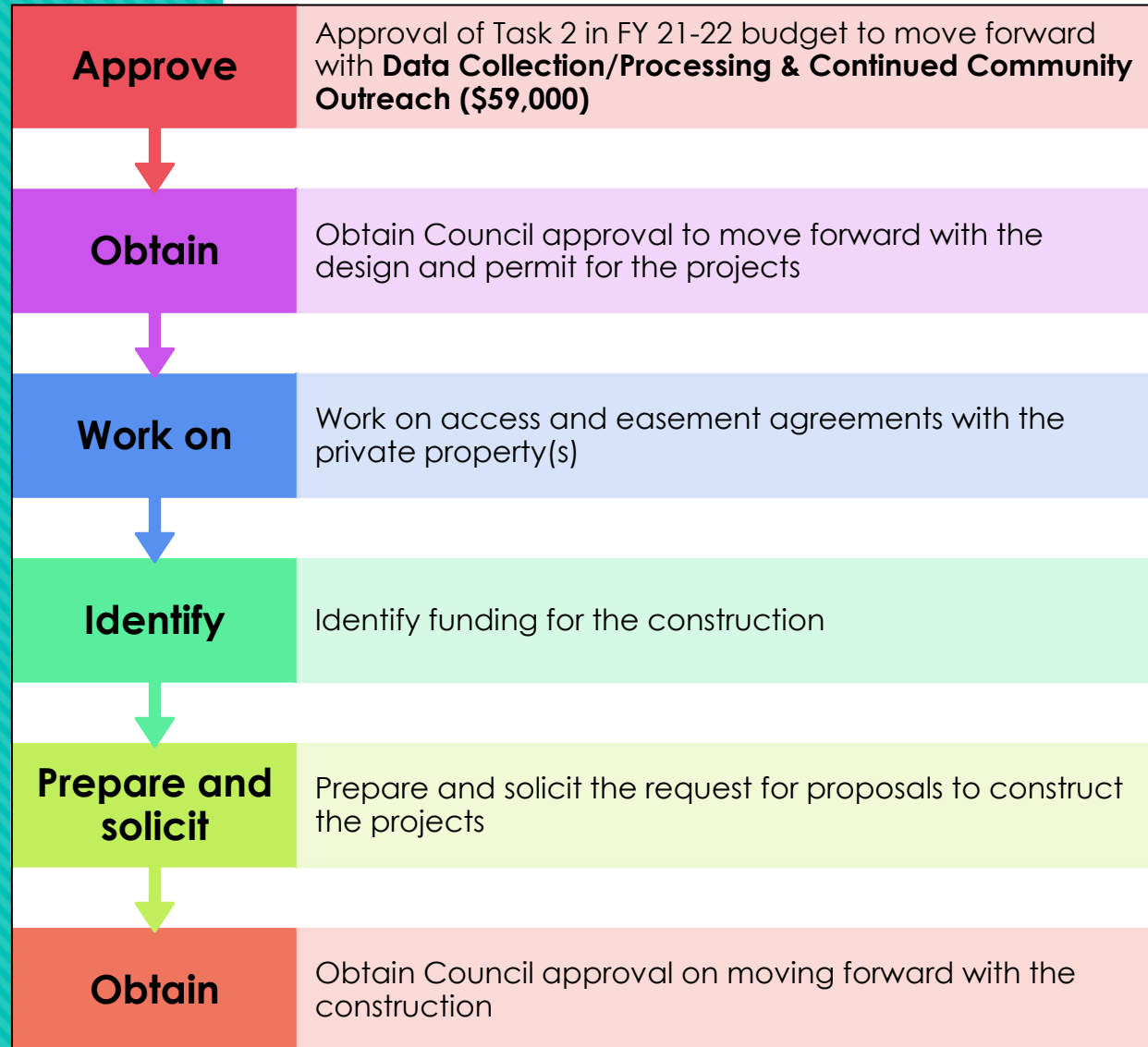


Public Outreach

- Identified the 6 private property owners for each of the culvert locations
- Sent emails and called to discuss the project and obtain feedback on the proposed projects
- Most property owners were amenable to the project and working with the Village on establishing access agreements for the culverts.

Culvert Location	Property Ownership (Private, Public or Both)	Access and Easement Interest (Yes or No)
#1	Both	Yes
#2	Public	Yes
#3	Both	Yes
#4	Both	Yes & No
#5	Both	Yes

Next Steps



Thank You