



# City of Marco Island

## MEMORANDUM

Date: July 28, 2025  
To: City Council  
Through: Michael A. McNees, City Manager  
From: Justin Martin, P.E., Director, Public Works  
Subject: Public Works Departmental Report –July 2025

The City's public works department has 13 dedicated employees that administer, repair, and maintain the city's public infrastructure including traffic signals, streetlights, roads, sidewalks, swales, street signs, stop signs, median landscaping and irrigation, city street trees, storm sewer drainage, and bridges.

The following summarizes the department's operations over the month of July:

### **Public Works Capital Projects Overview:**

#### ***N. Collier Blvd./N. Barfield Dr. intersection***

- Traffic control and underground water and sewer construction is scheduled to start early September.
- MOT Phase I has been reviewed and approved
- Construction Schedule: Sept 2025 – Sept 2026

#### ***Canal Aeration Pilot***

- Aerators will be installed in July.
- Following the installation of the aerators, a ten-week sampling and testing period will be conducted, covering parameters such as dissolved oxygen (DO), temperature, conductivity, oxidation-reduction potential (ORP), depth, and airflow.
- Construction and Pilot Study Schedule: July 2025 – Sept. 2025

#### ***Traffic Signal Control Replacements***

- Design: May 2025 – Nov 2025
- Bidding: Nov 2025 – Jan 2026
- Construction: Feb 2026 – Aug 2026

#### ***Pedestrian Safety Improvements***

- Design: May 2025 – Oct 2025
- Bidding: Nov 2025 – Jan 2026
- Construction: Feb 2026 – Aug 2026

#### ***Tidal Flushing/Canal Interconnects***

- Bids rejected 2024
- Additional grant funding has been approved. Additional funding still needed.
- Re-bid and construction TBD

### ***Sand Hill St. Shared Path***

- Design completed
- Bidding: July 2025 – Aug 2025
- Construction: Sep. 2025 – April 2026

### ***Annual Street Resurfacing (Paving)***

- Construction: Aug 2025 – Sep 2025

### ***Caxambas Ct. Bridge Replacement***

- Bridge development report completed
- City/FDOT water and sewer design agreement execution in progress
- 60% plans: Nov 2025
- 90% plans: May 2026; construction funding agreement between city and FDOT must be executed by May 2026.
- 100% plans: Oct 2026
- Bidding: Dec 2026 – Feb 2027
- Construction: Mar 2027 – Mar 2028

### ***S. Barfield Dr. Flood Remediation***

- Design: May 2025 – Dec 2025
- Bidding: Jan 2026 – Feb 2026
- Construction: Mar 2026 – Jan 2027

### ***Exfiltration Swales (S. Collier Blvd - Huron to end of Collier Ct.)***

- Contract awarded
- Construction: Aug 2025 – Dec 2025

### ***Roadway Restriping***

- Contract awarded
- Construction: Aug 2025 – Sep 2025

### ***Additional Street Lights***

- Coordinating with LCEC for additional lights on Bald Eagle Drive.
- Solicitation: Jul 2025 – Aug 2025
- Construction: Sep 2025 – Dec 2025

### ***Goldenrod Bridge Rehabilitation***

- Construction completed July 2025

### ***Bald Eagle Dr. Bike Lanes***

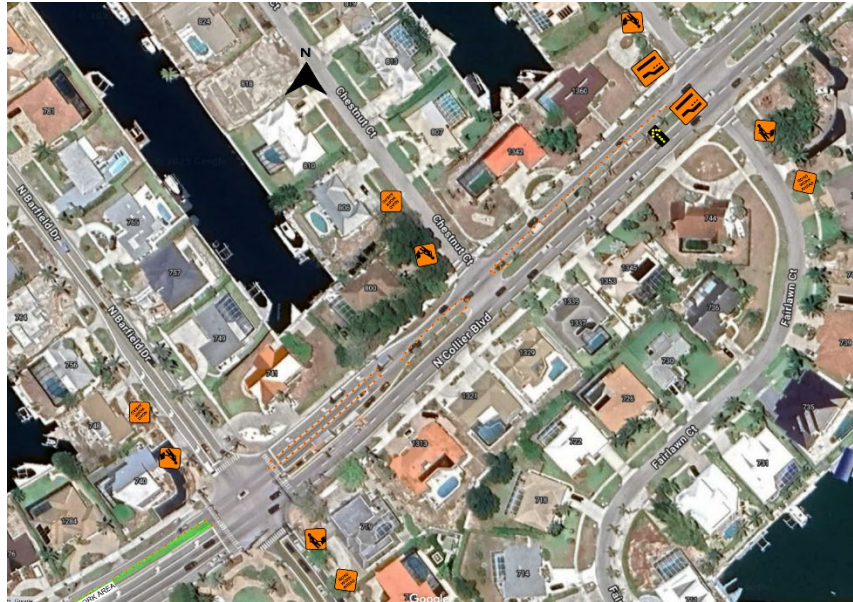
- Design: Aug 2025 – Dec 2025
- Bidding: Jan 2025 – Feb 2025
- Construction: Mar 2026 – Dec 2026

### ***Swallow/Huron/Panama Exfiltration Swales***

- Design: Oct 2025 – Apr 2026
- Bidding: May 2026 – June 2026
- Construction: July 2026 – Jan 2027

## N. Collier Blvd/N. Barfield Dr. Intersection Improvements

Construction is now slated to begin in September as a result of material procurement delays. The first phase of construction will consist of replacing the underground water and sewer mains. One southbound traffic lane will be closed during this phase of construction.



## Collier Blvd. Exfiltration Swales

The project area spans approximately 0.6 miles along South Collier Blvd, beginning at Huron Street and extending north to Swallow Avenue and Collier Court. The project will improve stormwater quality treatment by installing exfiltration systems within the existing roadside swales. The work includes excavation, grading, installation of perforated pipe, filter fabric, drainage rock, sodding, and site restoration, all following the approved design plans and permitting requirements.





# 2025 Annual Roadway Resurfacing

The 2025 Annual Resurfacing Project is set to begin in August. It will address key roadway segments throughout Marco Island, including Winterberry Drive (from Collier Boulevard to the base of the W. Winterberry Bridge), Heathwood Drive (from San Marco Road south to the Cul-De-Sac), and Century Drive (from Collier Boulevard to Tigertail Court), totaling over 11,000 linear feet of pavement improvements. The work will consist of milling, surface preparation, and paving, with Traffic control, per project specifications.



# Roadway Restriping

The City of Marco Island will begin its Road Restriping project to enhance roadway safety and visibility at key locations across the island. The work includes thermoplastic pavement markings, such as crosswalks, arrows, skip lines, and stop bars, at intersections along Bal Eagle Drive, Collier Boulevard, San Marco Road, Winterberry Drive, and other identified segments, as shown in the map.

Restriping will take place during regular business hours.

2025 City of Marco Island – Road Restriping



## Advisory Committee Support

In addition to the above projects, PW staff attends and supports the Waterways Advisory Committee, the Hideaway Beach Tax District Board, and the bike lane and shared path strategy group including the preparation of meeting minutes, conducting research, updating the city website related to committee functions, coordinating among committee members, and attending additional meetings, and responding to requests. Staff support of the Beautification Advisory Committee will be transitioned to the Fleet and Facilities department starting in fiscal year 26 on October 1.

## Water Quality Action Items

The following table lists the water quality action items being considered or performed by the city. The items appearing in gray text are not recommended, not feasible, and not implemented.

WQ Action Item	Cost	Status
dredging	\$30M (\$6M/yr x 5yrs)	coordinated permitting feasibility with FDEP. City Council reviewed the C-HAWQ public-private partnership proposal for dredging at the May 5, 2025 special called meeting. The City hired an independent engineer to review the proposal as directed by council. The engineer provided questions for C-HAWQ to answer.
inlet side slot filling	\$300/inlet	ongoing: 4 filled in month of July (160 total to date)
Exfiltration swales	\$12M	There are 120 miles of swales on Marco Island. \$1.5M in grant funding has been approved with 50% city matching funds. New exfiltration swales were constructed as part of the N. Barfield Shared Path project. The City awarded a contract to construct exfiltration swales on S. Collier Blvd. from Huron Ct. to the end of Collier Ct. Construction is slated to begin in July. More exfiltration swale project designs are on the way in FY25. The right of way construction standards manual was revised to require that exfiltration swales be constructed as part of the right of way permitting process. Thus far over 20 residential right of way permits include the construction of exfiltration swales.
inlet screens	\$600 ea	ongoing: 222 installed to date. Four were installed with the Barfield drainage and San Marco drainage projects. More will be installed as part of the N. Collier Blvd./N. Barfield Dr. intersection improvements project.
rain barrells/gardens	borne by homeowner	add to education campaign for homeowner implementation
seawall denitrification beds	borne by homeowner	not recommended - media can migrate into canals (unintended consequence)
reuse disposal alternatives	\$5M+	not feasible - FDEP will not permit the discarding of reuse water into deep injection well. Defeats the purpose of re-using treated water.
reuse irrigation inspections	included in operating budget	ongoing: city-owned irrigation inspected and repaired by city landscape contractor. Condo HOA's and hotels inspect and repair their systems
reuse educational program	included in operating budget	W&S dept prepared and distributed educational material. Follow up with HOA's annually. W&S has also assigned an employee to continue the public education campaign.
golf course irrigation	borne by golf courses	W&S dept coordinated with golf courses regarding irrigation rates. Golf courses effectively manage their irrigation

golf course interconnecting culverts	borne by golf courses	golf course water management systems detain stormwater and irrigation runoff onsite. Discharge to offsite is through outfall weirs. Interconnecting culverts are internal to golf course SWM systems.
Hydrodynamic study for dead-end canal circulation	\$50k	completed in Dec 2023 and presented to council in Jan 2024. The design of the interconnects was based on this study.
Dead-end canal interconnects	\$6M	state legislative appropriation approvals obtained. The first interconnect project has been designed, and bids opened on 8/5/24. The City is seeking additional state funding in FY25 and 26 so that this project can be constructed.
Street sweeper	\$380k	street sweeping program underway
fertilizer education campaign	low	city growth management environmental staff coordinating
fertilizer enforcement	low	ongoing - city code enforcement
fertilizer ordinance revision	low	not recommended - unenforceable
stormwater utility	property owner assessments	requires stormwater system inventory, master plan update, and rate study by consultant. Staff has not received direction from city council to proceed with this although this topic was recently proposed for discussions at WAC meetings.
Alternate water quality plan (4e)	\$50k	Approved by FDEP in Sept 2023. City is proceeding with projects in the plan as indicated in this table.
WQ testing	\$86k/yr	Ongoing. Quarterly testing of PTOX algae added in FY25.
WQ monitoring evaluation	\$10k/yr	evaluation being conducted as part of the MS4 permit. PW staff submitted the NPDES Annual Report for the Phase II MS4 permit for year 2 on 2/28/24. FDEP approved the annual report in August 2024. FDEP is conducting an MS4 audit on July 9.

## Permitting Functions

Public works staff also reviews development and right-of-way permit applications and conducts inspections of the active right-of-way, SDP, and Seawall permits. The reviews and inspections are summarized below.

### Reviews

Permit Type	qty
ROW permits (residential)	34
ROW permits (commercial)	0
SDP reviews	2
SEAW Seawall Work	16

### Inspections

Type	qty
Residential	99
Commercial	0

## Infrastructure Maintenance Field Crew Activities

- Swept City Roadways with new street sweeper (148 lane miles swept between 5/20/2025 and 7/16/2025).
- Inspected crosswalks.
- Painted stop bars and crosswalks.
- Sealed up 4 side slot inlets on storm structures.
- Inspected Amber Dr. stormwater complaint. Roadway needs to be raised at area to relieve water ponding in roadway.
- Reshaped ditch and installed riprap at Scott Dr. and Indian Hill to alleviate washouts in roadway (one week construction project).
- Serviced old Public Works sweeper (hurricane preparation work).
- Parged seawall at Rupert Ct.
- Picked up sign poles from sign shop in Ft. Myers.
- Cleaned storm grate at Mackle Park Lake.
- Inspected water in swale complaint on Lito Ct. (no issues found).
- Picked up water truck from shop due to leaky air bag replacement.
- Repaired potholes on Jim Vensel Way.
- Installed new 'reuse water' signs along Collier Blvd.
- Painting bullnoses along Collier Blvd. and S. Barfield. (Project begun to repaint all bullnoses along collier Blvd. and S. Barfield).
- Completed swale work on Tahiti Rd.
- Completed swale work on Woodbine Ct.
- Repaired wintergreen Ct. Stop Sign.
- Picked up load of riprap in Naples (driver sent to restock riprap).
- Meet with FDEP for MS4 audit inspection.
- Repaired pothole on Collier Blvd.
- Repair brick pavers under Herb Savage Bridge walkway.
- Completed swale work at Dolphin Ct.
- Completed quarterly staff meeting (update PW crew initiatives).
- Replaced 57 stone along seawall at Barfield / Redwood bridge (7 tons of stone added to sinkage along seawall).
- Replaced load of 57 stone for shop supply.
- Filled sinkhole in roadway over storm pipe on Tigertail Ct.
- Inspected S. Bahama water in Swale Complaint.
- Inspected water in swale complaint on Hawaii Ct. (no issues found, swale driveway water retention).



**Gravel Replacement at N. Barfield Bridge Seawall**



**Sinkhole Repair on Tigertail Ct.**



**Reshaped ditch and install riprap at Scott Dr. and Indian Hill**





**Reshaped ditch and installed riprap at Scott Dr. and Indian Hill**



**Mackle Park Storm Grate Debris Maintenance**

