



City of Marco Island

MEMORANDUM

Date: September 29, 2025
To: City Council
Through: Michael A. McNees, City Manager
From: Justin Martin, P.E., Director, Public Works
Subject: Public Works Departmental Report – September 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 September:

Public Works Capital Projects Overview:

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

- Mobilization and construction began in mid-September.
- MOT has been implemented to maintain safe traffic flow and work conditions.
- Phase I of the project focuses on utility improvements.
- Construction Schedule: Sept 2025 – Sept 2026

Canal Aeration Pilot

- Pilot study testing window (May-September) has closed. The equipment is fully set up and ready, and testing will resume in May 2026 with the reopening of the next testing cycle.
- 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.

Traffic Signal Control Replacements

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

Pedestrian Safety Improvements

- Design: Completed
- 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 is still needed
- Re-bid and construction TBD

Sand Hill St. Shared Path

- Bid opened August 13.
 - Award recommendation and council approval scheduled for October 6, 2025.
- Construction: Jan. 2026 – Aug. 2026

Annual Street Resurfacing (Paving)

- Construction: Aug 2025 – Sep 2025 in progress

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: Sep 2026
- Bidding: Nov 2026 – Jan 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.)

- Construction: Oct 2025 – Feb 2026

Roadway Restriping

- Construction: Sep 2025 – Nov 2025

Additional Street Lights

- Coordinating with LCEC for additional lights on Bald Eagle Drive.
- Solicitation: Oct 2025 – Nov 2025
- Construction: Dec 2025 – Jan 2026

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 (pending funding)

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

Construction began in mid-September. The first phase of construction consists of replacing the underground water and sewer mains. A southbound and northbound traffic lane will be maintained during construction. Access to Collier Blvd from Barfield will be eliminated during the underground infrastructure construction. This will minimize traffic delays during the morning and afternoon peak hours. Motorists entering the island that would have normally turned at Barfield will be able to turn at Yellowbird, E. Elkcam, or Bald Eagle. Vehicles exiting the island will need to use Yellowbird, E. Elkcam, or Bald Eagle as an alternate route to Barfield.



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. Construction is scheduled to begin on October 1 and is expected to be completed within six (6) months.



2025 Annual Roadway Resurfacing

The 2025 Annual Resurfacing Project is underway. Century Drive, Winterberry Drive (from Collier Boulevard to the base of the W. Winterberry Bridge), S. Heathwood Drive (from San Marco Road south to the Cul-De-Sac), Piedmont Court, Wavecrest Court, and Windmill Avenue paving is now complete. The contractor is currently paving Tarpon Court and Balsam Court. The work consists of milling, surface preparation, and paving, with traffic control, per project specifications.



Roadway Restriping

The Road Restriping project will commence in October. The work includes thermoplastic pavement markings, such as crosswalks, arrows, skip lines, and stop bars, at intersections along Bald Eagle Drive, Collier Boulevard, San Marco Road, Winterberry Drive, and other identified segments, as shown on the map.

Most of the restriping will take place during nighttime hours. Maintenance of traffic (MOT) will be in place at all times, with at least one lane remaining open to maintain traffic flow.

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 and the Hideaway Beach Tax District Board 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: 7 filled in month of August (167 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)	26
ROW permits (commercial)	11
SDP reviews	3
SEAW Seawall Work	12

Inspections

Type	qty
Residential	101
Commercial	0

Infrastructure Maintenance Field Crew Activities

- Swept City Roadways with new street sweeper 292 lane miles swept between 8/18/2025 and 9/19/2025).
- Inspected crosswalks.
- Painted stop bars and crosswalks.
- Sealed up 7 side slot inlets on storm structures.
- Painted 24,12 MPH bicycle speed limit signs along City shared pathways as of 9/24/2025.
- Heavy equipment safety class completed by Public Works Personnel.
- Located elevated manholes for repair along roadway repaving project.
- Reset camera on Kendall Dr. due to citizen complaint.
- Inspected Preferred Paving road resurfacing project.
- Removed 57 stone with City Vac Truck from Caxambas Dr. storm box.
- Repaired storm pipe on Inlet Dr. (sinkhole behind residence).
- Repaired pothole on Partridge Ct.
- Cleaned and installed filters / pest deterrent on all City traffic control boxes.
- Picked up sign poles in Ft. Myers.
- Dropped off PW 21 for recall service in Naples Ford service shop.
- Cleaned debris near Jolley Bridge.
- Hauled rip rap from Naples to Public Works Facility.
- Restored swale on Indian Hill (rip rap installed to prevent runoff).
- Responded to Greenbrier St. water complaint, standing storm water in back yard, no issues found.

- Replaced stop sign pole on Biscayne Way.
- Serviced City water truck.
- Filled 20 sand bags (storm preparation and sign maintenance).
- Installed and built speed radar sign for MIPD.
- Inspected swale complaint on Flamingo Cir.
- Picked up City Gradall in Ft. Myers.
- Restored power with Bentley Electric at San Marco and Collier Blvd. Intersection.
- Removed roadkill from Collier Blvd.
- Inspected traffic light issue on Bald Eagle and Elkcam (needs new circuit board installation).
- Poured bases for crosswalk pole installation near Beach Club Condominiums.
- Parged seawall at Admiralty Ct.
- Filled sinkhole near roadway on Caxambas Dr. (data cable penetrating City outfall pipe).
- Replaced two wooden stop sign poles with aluminum poles.
- Completed traffic light schooling and test for PW field crew.
- Removed roadkill N. Barfield Dr.
- Serviced City street sweeper (oil change, oil filter and air filter).
- Repaired outfall pipe on Dan River Ct.

Indian Hill Swale Restoration





Pier 81 Street Light Replacement

Bentley Electric



Beach Access / Museum Sign Installation



Street Paving on Balsam Ct.



Traffic Signal Electric Repair by Bentley Electric





Storm Pipe Repair at 1070 Caxambas Dr.

