



City of Marco Island

MEMORANDUM

Date: December 22, 2025
To: City Council
Through: Casey Lucius, Ph.D., Interim City Manager
From: Justin Martin, P.E., Director, Public Works
Subject: Public Works Departmental Report – December 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 December:

Public Works Capital Projects Overview:

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

- Potable Water and reclaimed water main installation under Collier Blvd. is complete. Installation of new mains under N. Barfield Dr. will commence in January.
- Both southbound and northbound lanes will remain open during the holidays.
- Work continues to progress in accordance with the project schedule and budget.
- The project is scheduled to be completed in September 2026.

Canal Aeration Pilot

- 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: Jan 2026
- Construction: March 2026 – Sept. 2026

Pedestrian Safety Improvements

- The first pedestrian safety project consists of two new crosswalks:
 1. S. Heathwood Dr. at Andalusia Ter.
 2. N. Barfield Dr. between Wavecrest Ct. and Piedmont Ct.
- Contract award will be presented to City Council for approval on January 8.
- 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

- Contract awarded.
- Construction will begin in January 2026.

Annual Street Resurfacing (Paving)

- 2025 Project completed
- Roads paved:
 1. S. Heathwood Dr
 2. Winterberry Dr. (Collier Blvd. to W. Winterberry Bridge)
 3. Century Dr.
 4. Wavecrest Ct.
 5. Piedmont Ct.
 6. Windmill Ave.
 7. Balsam Ct.
 8. Tarpon Ct.
 9. Pepperwood Ct.
 10. Goldcoast Ct.

Paving Repairs

- This project will correct some of the pavement dips/depressions and manhole bumps throughout the island.
- Construction commences in January 2026.

Caxambas Ct. Bridge Replacement

- 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 – Dec 2025

Additional Street Lights

- Coordinating with LCEC for additional lights on Bald Eagle Drive.

Bald Eagle Dr. Bike Lanes

- Design: Aug 2025 – Dec 2025
- Bidding: Jan 2026 – Feb 2026
- 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)

Winterberry 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

Current Phase – Underground Utilities

- Installing new underground water and reclaimed water mains.
- Collier Boulevard main installation is complete.
- Barfield Drive work to begin after the holidays and conclude in late February 2026.
- New mains require testing, disinfection, and State approval before service.

Next Phase – Roadway and Traffic Signal Improvements

- Roadway improvements include median reconstruction on Collier Boulevard and widening of Barfield Drive for new through lanes.
- Roadway work is scheduled from late February through August 2026.
- Traffic signal upgrades (poles, controllers, signage, lighting, and pedestrian crossings) are scheduled from February through July 2026.

Final Phase – Restoration and Closeout

- Final restoration and project closeout are scheduled from late August through September 2026, with final completion by the end of September 2026.



S. Collier Blvd. Exfiltration Swales

The project continues to progress along the north-east side of Collier Ct. and is currently advancing ahead of the established schedule. The contractor is actively performing excavation, grading, and installing exfiltration system components. Restoration of construction staging area on Swallow Ave. will be done as soon as swale construction is complete.

Roadway Asphalt Inlay Repairs

This project will mitigate some of the pavement settlement issues causing bumps at manholes and dips over the sanitary sewer that resulted from insufficient compaction during the septic tank replacement project from 2005 to 2012. This project consists of locally milling, repaving, and compacting pavement around affected manholes, as well as filling roadway depressions to improve overall ride quality and safety.

While this work will not resolve all settlement-related issues, it will mitigate several of the most significant problem areas until those roads can be repaved. City Council approved the award of contract for this project at the 12/8/25 meeting. Construction starts in January 2026.



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 transitioned to the Fleet and Facilities department 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 October (171 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 without funding
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)	19
ROW permits (commercial)	11
SDP reviews	4
SEAW Seawall Work	15

Inspections

Type	qty
Residential	57
Commercial	0

Infrastructure Maintenance Field Crew Operations

- Swept 201 lane miles between (12/1/2025 and 12/12/2025).
- Inspected crosswalks.
- Sealed up 2 side slot inlets on storm structures.
- Installed holiday banners along Collier Blvd.
- Installed holiday decorations at City Hall.
- Completed right-of-way inspections in absence of public works right-of-way inspector.
- Met with JRL construction for South Collier Blvd. Exfiltration swale inspections.
- Met with Juniper Landscaping personnel to coordinate city irrigation and landscaping maintenance.
- Pressure washed city trash cans and benches along Collier Blvd.
- Repaired city dump truck (air line repair and vehicle maintenance).
- Repaired gopher tortoise sign on San Marco Rd.
- Painted bullnoses on Collier Blvd.
- Repaired storm drain box on Sand Hill St.
- MOT testing completed for two public works personnel.
- Cleaned rock and installed additional rock along roadway on Fairlawn.

- Reshaped swale on Scott Dr.
- Cleaned numerous roadkill island wide.
- Repaired waterway sign (T-Groin).
- Swale grade and resod Tarpon Ct.
- Safed up broken sidewalk at YMCA on Sand Hill St.
- Removed fallen tree branches encroaching on roadway at S. Collier Blvd.
- Blocked roadway for holiday parade route.
- Removed waterway marker pole from waterways (Marco PD assistance).
- Repaired flashing crosswalk sign near Mariott on Collier Blvd.

Swale grading at Tarpon Ct



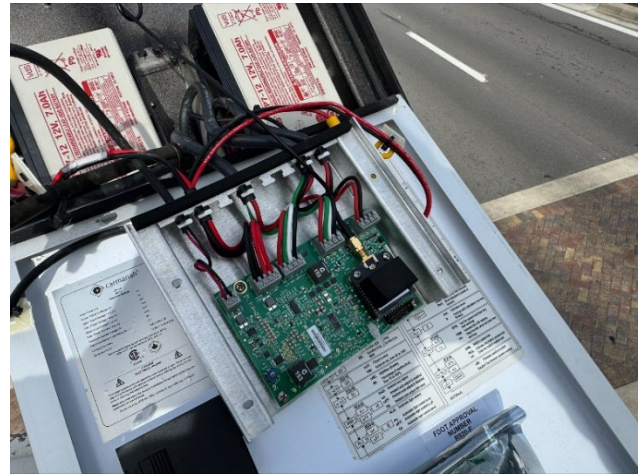
Waterway marker pole removed from waterway



Emergency tree branch removal on S. Collier Blvd.



Flashing crosswalk electronic controler replacement on Collier Blvd.



Storm Drain box repair on Sand Hill St.

