



City of Marco Island

MEMORANDUM

Date: March 26, 2025
To: City Council
Through: Michael A. McNees, City Manager
From: Justin Martin, P.E., Director, Public Works
Subject: Public Works Departmental Report – March 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 February:

Public Works Capital Projects Overview:

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

- Bids opened on 3/25/2025
- A total of two bids were received and are being evaluated.
- To be presented to city council for contract award at the 4/21/25 meeting
- Construction: June 2025 – June 2026

Canal Aeration Pilot

- Construction contract awarded
- Laboratory testing services bids were due on 3/21/2025; no bids received
- PW staff is soliciting quotes from labs for the surface water testing
- Project will commence upon securing lab testing contract PO
- Construction: May 2025 – Jul 2025

Traffic Signal Control Replacements

- Negotiating scope of work and fee with consultant
- Design award 4/21/25
- Design: May 2025 – Nov 2025
- Bidding: Nov 2025 – Jan 2026
- Construction: Feb 2026 – Aug 2026

Pedestrian Safety Improvements

- Negotiating scope of work and fee with consultant
- Design award 4/21/25
- Design: May 2025 – Oct 2025
- Bidding: Nov 2025 – Jan 2026
- Construction: Feb 2026 – Aug 2026

Tidal Flushing/Canal Interconnects

- Bids rejected 2024
- Awaiting additional grant funding
- Re-bid and construction TBD

Sand Hill St. Shared Path

- Design completed
- PW staff is conducting value engineering with the consultant
- Bidding: Apr 2025 – Jun 2025
- Construction: Jul 2025 – Jan 2026

Annual Street Resurfacing (Paving)

- PW staff preparing scope of work and bid documents
- Bidding: Apr 2025 – Jun 2025
- Construction: Jul 2025 – Sep 2025

Caxambas Ct. Bridge Replacement

- Bridge development report completed
- 60% plans: Jul 2025
- 90% plans: Jan 2026; funding agreement between city and FDOT must be executed by Jan 2026.
- 100% plans: Jun 2026
- Bidding: Jul 2026 – Aug 2026
- Construction: Sep 2026 – Sep 2027

S. Barfield Dr. Flood Remediation

- Design award: 4/07/25
- Design Phase: 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.)

- Design nearing completion
- Bidding: Apr 2025 – Jun 2025
- Construction: Jul 2025 – Dec 2025

Roadway Restriping

- PW staff preparing scope of work and bid documents
- Bidding: Apr 2025 – Jun 2025
- Construction: Jul 2025 – Sep 2025

Additional Street Lights

- PW staff evaluating areas of need
- Solicitation: May 2025 – Jul 2025
- Construction: Aug 2025 – Nov 2025

Goldenrod Bridge Rehabilitation

- Currently out to bid.
- Bid opens April 17, 2025.
- Construction: Jul 2025 – Sep 2025

San Marco Drainage Improvement Project:

This project involves installing new culverts, mitered ends, inlets, and swale grading to help reduce flooding. Engineered filter media will also be installed in selected areas to capture nutrients before they reach the waterways.

This project includes Wintergreen Ct., Manor Terrace, Greenbrier St., Buttercup Ct., Robin Ct., and the portion of San Marco Rd. from 780 to 860 San Marco Rd.

85% of drainage structures have been installed on Wintergreen Ct., and all driveway work has been completed. At the intersection of Robin Ct. and Buttercup Ct., work is approximately 80% complete. Most drainage structures across the project area have been installed, except for the San Marco Area, which is still pending. Bold & Gold filter media installation is yet to begin, which explains the absence of sod in certain right-of-way areas, particularly along Buttercup.



Overall, construction is approximately 65% complete. The project continues to move forward steadily and remains on track for completion ahead of schedule.

Advisory Committee Support

In addition to the above projects, PW staff attends and supports the Waterways Advisory Committee, the Beautification Advisory Committee, and 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.

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. A company presented a public-private partnership concept for dredging to city council in September and a proposal in March. The city is reviewing the proposal and will present it to city council upon completion of evaluation of proposal.
inlet side slot filling	\$300/inlet	ongoing: 0 filled in month of March (149 total to date)
Exfiltration swales	\$12M	There are 120 miles of swales in Marco Island. \$1.5M in grant funding has been approved with 50% city matching funds. New exfiltration swales will be constructed as part of the N. Barfield Shared Path project. Construction plans underway for exfiltration swales on S. Collier Blvd. from Huron Ct. to the end of Collier Ct. 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.
inlet screens	\$600 ea	ongoing: 222 installed to date. Four were installed with the recently completed Barfield drainage project. More will be installed as part of the N. Collier Blvd./N. Barfield Dr. intersection improvements project.
rain barrels/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
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 will seek additional state funding in FY25 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.
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.

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)	28
ROW permits (commercial)	0
SDP reviews	3
SEAW Seawall Work	17

Inspections

Type	qty
Residential	94
Commercial	0

Infrastructure Maintenance Field Crew Activities

- Swept City Roadways with new street sweeper (202 lane miles swept between 2/17/2025 and 3/21/2025).
- Inspected crosswalks.
- Painted 85 stop bars and crosswalks.
- Inspected structure, found pipe in need of parging connecting to storm structure at 165 Gulfstream.
- Repaired edge of roadway on Peru.
- Collected trash on all main streets.
- Repaired brick pavers and truncated domes on Cushing Ln.
- Removed roadkill on San Marco Rd.
- Replaced truncated domes on Menorca Ct. shared pathway.
- Installed eight pedestrian crosswalk signs on Tigertail Ct.
- Installed pedestrian crosswalk light bat on Winterberry/Peru and

Winterberry/Peacock.

- Removed car show banners.
- Removed roadkill on Bald Eagle Dr.
- Performed vehicle maintenance on City water truck (lube oil and filter).
- Installed asphalt wedge along driveway on Wintergreen Ct.
- Installed waterway clearance marker on N. Barfield Bridge.
- Installed four pedestrians crosswalk signs on Hull Ct. and Hyacinth Ct.
- Repaired edge of roadway on Barbados Ct.
- Repaired water leak on City water truck (rubber coupling repaired).
- Filled seawall void with 57 stone on N. Barfield Bridge.
- Completed sidewalk inspection (6 days to complete inspection).
- Inspected Woodbine Ct. drainage complaint.
- Graded swale on Maderia Ct. (two lots graded).
- Installed concrete bases for Andalusia Ct. crosswalk lights.
- Installed crosswalk flashing lights on N. Barfield and Bald Eagle crossing.
- Swale grading completed on two lots at Meadowlark Ct.
- Replaced “no wake” signs at Windmill and N. Barfield Bridge and Kendall Dr.
- Commenced storm drain cleaning along Collier Blvd.
- Removed roadkill on Winterberry Dr.
- Reset cameras on Kendall Dr.
- Filled small sinkhole on Collier Blvd.
- Cleaned “Welcome to Marco” signs on Goodland and Jolley bridges.
- Changed wood sign pole (replaced with metal) at Bald Eagle/Chalmer.
- Installed new brakes and rear shocks on Public Works John Deere Gator.
- Repaired flashing beacon near pier 81 on Bald Eagle Dr.
- Replaced truncated domes on Peacock and Auburndale.
- Repaired brick pavers on Swallow Ave.
- Installed pedestrian crosswalk signage on Peacock and Auburndale.
- Installed crosswalk signage on Bayport Ave./Tahiti.

Swale Grading on Meadowlark Ct.



Pier 81 Crosswalk Sign Installation



Swale Grading on Maderia Ct.



N. Barfield Bridge Clearance Marker Installation



Wintergreen Asphalt Driveway Wedge Installation



Peacock and Auberdale Truncated Dome Installation



Swallow Ave. brick paver repair



N. Barfield Dr. No Wake sign installation



