



# City of Marco Island

## MEMORANDUM

Date: March 27, 2026  
To: City Council  
Through: Casey Lucius, Ph.D., Interim City Manager  
From: Justin Martin, P.E., Director, Public Works  
Subject: Public Works Departmental Report – March 2026

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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 department manages design, permitting, construction contracts, infrastructure maintenance contracts, governmental compliance, traffic operations, and serves as liaison and support to the Waterways Advisory Committee and the Hideaway Beach Special Taxing District Board. The department responds to island resident concerns regarding infrastructure, prepares projects for public bidding and has a major role in solicitations for consulting and annual service contracts.

The stormwater engineer resigned in February. The City published the position vacancy and is in the process of accepting employment applications and conducting interviews to fill the position.

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

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

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

- The new traffic signal poles and arms have been erected.
- Pavement is being widened on Barfield Dr. to accommodate the new through lanes.
- All potable water and reclaimed water main installations are complete. Service connections will be done during the week of March 30. One traffic lane will be closed for three days during the water service connections.
- New concrete sidewalks and reconfigured single family home driveways on Barfield are being poured accommodate added through lanes.
- Median curbs on Collier Blvd. are being formed and poured to accommodate the lengthening of the turn lanes.
- The project is on schedule and on budget.
- Estimated project completion remains at the end of September 2026.

#### ***Public Works Facility at the South Water Treatment Plant***

- Architectural plans have been completed.
- The architect has submitted the building permit application.
- Bidding: Apr 2026 – May 2026
- Construction: July 2026 – July 2027

### ***Collier Alternate Bike Lanes***

- Bike lane construction is underway on Swallow Ave. and on the north end of Seagrape Dr.
- Construction: Mar 2026 – Dec 2026

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

- Water testing May 2026 – Sep 2026 (after diffuser installation).
- Canal water dissolved oxygen (DO), temperature, conductivity, oxidation-reduction potential (ORP), depth, and aerator airflow will be tested.
- Results and report expected later this year

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

- Design: Completed
- Received one bid. Staff is recommending that the City reject the bid and rebid to obtain more bids resulting in lower pricing.
- Construction: July 2026 – Jan. 2027

### ***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 has been awarded
- Construction: Mar 2026 – Aug 2026
- Further pedestrian safety improvements are included in the traffic signal control replacements project.

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

- Construction is ongoing and will be completed by Aug 2026

### ***2026 Annual Street Resurfacing (Paving)***

- Contract award Apr 6, 2026
- Construction: June 2026 – Oct 2026.
- Roads planned to be paved pending bidding:
  1. Neil Bahr Way (Park Ave. to W. Elkcam Cir.)
  2. Tripoli Ct.
  3. Antilles Ct.
  4. Fruitland Ave.
  5. Hartley St.
  6. Admiralty Ct.
  7. Hunt Ct.
  8. Strawberry Ct.
  9. Marquesas Ct.
  10. Wales Ct.

### ***Paving Repairs***

- This project will correct some of the pavement dips/depressions and manhole bumps throughout the island.
- Construction is ongoing and will be completed by June 2026

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

- 90% plans: May 2026; construction funding agreement between city and FDOT must be executed before bidding.
- Funding is needed for this project (transportation bond via referendum)
- 100% plans: Sep 2026
- Bidding: Mar – Apr 2027
- Construction: May 2027 – May 2028

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

- Design to be completed in Apr 2026
- Bidding: May 2026
- Construction: July 2026 – June 2027

### ***Exfiltration Swales (Winterberry Dr.)***

- Design to be completed May 2026
- Bidding: June 2026 – July 2026
- Construction: Sep 2026 – Jan 2027

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

- Design to be completed Apr. 2026
- Bidding: May 2026 – July 2026
- Construction: Oct 2026 – Aug 2027

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

- Design to be completed Dec 2026
- Bidding: Jan – Feb 2027
- Construction: Apr - Sep 2027 (pending funding)

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

- Bids rejected 2024
- Additional funding is still needed
- Re-bid and construction TBD pending additional funding

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

### **First Phase – Underground Utilities**

- New underground water and reclaimed water mains installed. Service connections during week of Mar 30.
- 18" diameter storm pipe under Barfield Dr. will be replaced.

### **Second Phase – Roadway and Traffic Signal Improvements**

- Roadway improvements include median reconstruction on Collier Boulevard and widening of Barfield Drive for new through



lanes, and replacement of three traffic signal poles, arms, signals, and controllers.

- Roadway work is ongoing through August 2026.
- Traffic signal poles and arms have been replaced.
- Concrete curbs, sidewalks are being poured.



### 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.

### **Roadway Asphalt Inlay Repairs**

This project will be completed by Jun 2026. The paving repairs will mitigate pavement settlement issues that have caused bumps at manholes and dips over the sanitary sewer, resulting 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.

### **Collier Alternate Bike Lanes**

This project is an FDOT-funded initiative that adds seven-foot-wide bicycle lanes on each side of the road on Peru St. to Seagrape Dr., and Swallow Ave. These improvements are intended to enhance multimodal connectivity, increase cyclists' safety, and support the City's transportation and mobility goals.

The contractor is making steady progress. Construction started on Swallow Ave. and Seagrape Dr. The project will be completed by December 2026. The cost of construction will be fully reimbursed by an FDOT grant.



### Sand Hill St. Shared Path

Construction is ongoing. The contractor is restoring driveways, sod, and swales as they progress. New path connections were made to the Calusa park shared path at the intersection of Winterberry Dr. and Sand Hill St. The contractor is making steady progress.



### 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 agendas and minutes, conducting research, updating the city website related to committee functions, coordinating among committee members, 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. 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: 2 filled in month of March (177 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 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. 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.

### February 2026

#### Reviews

Permit Type	qty
ROW permits (residential)	22
ROW permits (commercial)	13
SDP reviews	3
SEAW Seawall Work	25

#### Inspections

Type	qty
Residential	101
Commercial	0

## Infrastructure Maintenance Field Crew Operations

- Swept 315 lane miles between 2/15/2026 and 3/20/2026
- Setup Farmer's Market traffic control.
- Swept bike lanes.
- Inspection of crosswalks.
- Filled 4 side slot inlets on storm structures with brick and mortar.
- Cleaned storm drains (yearly storm drain cleaning, two personnel cleaned 911 storm drains to date).
- Removed scrap metal and delivered to scrap yard (two trailer loads worth).
- Delivered water truck to repair shop to diagnose electrical issues (issues repaired).
- Moved shop material to old CL2 room at SWTP in preparation for new PW maintenance facility.
- Re-lined stormwater pipe under Collier Blvd. (Titan contracted repair work).
- Serviced old City broom sweeper in preparation for hurricane season.
- Repaired street signs on 6<sup>th</sup> Ave. & Yellowbird.
- Moved 20 "No Parking" signs on Swallow Ave. construction project.
- Serviced PW S1 oil filter (hydraulic leak inspection and repair).
- Removed roadkill on San Marco Rd.
- Respond to traffic light in red flash (red flash complaint), no issues found, system reset for precaution.
- Completed level 1 stormwater certification for PW field personnel.
- Repaired edge of pavement on Bald Eagle Dr. (two locations).
- Repaired numerous potholes island wide.
- Removed roadkill on Heathwood Dr.
- Inspected driveway complaint at 211 Stillwater (spoke to homeowner for possible remedy).
- Relined outfall pipe on Banyon Ct. (outfall pipe re-line completed).
- Painted 4 truncated dome brick pavers on S. Collier Blvd.
- Repaired pothole on Villa Ct.
- Repaired bike lane sign on Yellowbird.

- Remove waterway signage from waterway (damaged from cruise ship).
- Relaced traffic camera on W. Elkcam and Collier.
- Repaired two areas on shared pathway along San Marco Rd. (broken sidewalk panel repairs).
- Reset timing of crosswalk at Mariott.
- Assisted Engineer/inspector at Caxambas Ct. bridge.
- Repaired storm drain at snowberry Ct.
- Repaired Tigertail Ct. irrigation pipe.
- Repaired storm pipe on Joy Cir.
- Repaired PW S1 sweeper (water pressure issue diagnosed and repaired).
- Repaired storm pipe at 1480 Jamaica.

1480 Jamaica Storm Pipe Repair



Snowberry Ct. Storm Pipe Repair



Villa Ct. Depression in Roadway Filled



South Seas Ct. Waterway Debris Removal



Sheriff Marine Sub-Station Waterway Debris Removal

