



City of Marco Island

MEMORANDUM

Date: January 27, 2025
To: City Council
Through: Michael A. McNees, City Manager
From: Justin Martin, P.E., Director, Public Works
Subject: Public Works Departmental Report – January 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 notable activities and involvement over the month of January:

San Marco Drainage Improvement Project:

This project consists of new culverts, inlets, mitered ends, and swale grading to reduce flooding. This project also installs engineered filter media where practical to capture and retain nutrients in stormwater runoff that would otherwise be discharged into 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.

Construction started on Wintergreen Ct. on 1/13/25 and is currently proceeding on Manor Ter. This project is slated to be complete in June but is currently ahead of schedule.



Driveway Adjustments

The city is adjusting homeowner driveways that ended up 1½” lower than the asphalt elevation as a result of the annual street paving project. The last of the driveway adjustments are being made on Rose Ct.



Sand Dollar Spit Sand Restoration

Efforts to restore the sand displaced by hurricanes and tropical storms in 2024 are ongoing. The Hideaway Tax District has rescheduled its February meeting to February 4, 2025, to discuss authorizing additional funds for the continued restoration work. These additional costs will be presented to the City Council at the February 18, 2025, meeting.

The Hideaway Beach Special Tax District is financing the hurricane-related restoration, while biennial maintenance is funded through Collier County tourist taxes. The city also plans to request additional Tourist Tax funds from the County’s Tourist Development Council (TDC) to help cover restoration expenses.

The restoration project, which involves excavators, loaders, bulldozers, and quarry trucks, is on track to be completed before the start of the shorebird nesting season on February 15. Sand Dollar Spit plays a critical role as a natural defense against storm surges and serves as vital nesting habitat for shorebirds and sea turtles.



A Marco Island resident and YouTuber recently met with the city's consultant and filmed and uploaded an informational video about the restoration efforts. You can watch the video on YouTube:
<https://youtu.be/myzlkCVQZpc>



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 Committee, 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 pilot program will be presented to council in the FY 26 proposed budget. A company presented a public-private partnership concept for dredging to city council in September for consideration.
inlet side slot filling	\$300/inlet	ongoing: 0 filled in month of January (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
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)	33
ROW permits (commercial)	2
SDP reviews	0
SEAW Seawall Work	11

Inspections

Type	qty
Residential	123
commercial	2

Infrastructure Maintenance Field Crew Activities

- Swept City Roadways with a new street sweeper (203 lane miles swept between 12/20/2024 and 1/24/2025).
- Inspected crosswalks.
- Repaired roadway on Amber and Swan.
- Painted numerous crosswalks and stop bars.
- Repaired roadway on Weeks Way.
- Repaired paver bricks on stairway on Collier and Bald Eagle.
- Repaired roadway on Mendel and Amber.
- Repaired roadway on Waterway Ct.
- Removed 30' x 14' section of roadway due to tree roots uprooting road. Repaved roadway with base rock and hot patch.
- Repaired roadway on 840 Seagrape.
- Installed new safety lights on City lift truck.
- Greased and preformed maintenance on City Gradall
- Reset cameras on Collier & Barfield.
- Removed broken banner arms on Collier Blvd.
- Repaired pothole on Collier flat bridge.
- Filled sinkhole and camera pipe on Cyrus St. Need to replace road crossing pipe.
- Repaired sidewalk on Winterberry and Fieldstone.
- Picked up knocked over trash cans on Collier Blvd.
- Removed roadkill on San Marco Dr.
- Reset cameras on Kendall and Collier due to complaint.
- Pressure wash sidewalk and brick pavers on E. Winterberry Bridge.
- Reset marker #3 buoy.
- Repaired stop sign on Spruce Ave.
- Repaired stop sign on Montego.
- Installed new crosswalk and warning signs on Shalamar.
- Drove City dump truck to shop for inspection.
- Removed Holiday Banners.
- Removed roadkill on Collier Blvd.
- Graded swale on 310 Worthington St.
- Installed City banners.
- Replaced green turn arrow on Collier and Elkcam.
- Installed 3 new diamond warning signs at 310 Worthington.
- Installed crosswalk signage on intersection of Sand Hill and Galleon.
- Repaired guard rail on W. Winterberry Bridge.
- Pressure wash city benches on Collier Blvd.
- Repaired 30 mph. sign on Tigertail Ct.
- Prepared City flat boat for marine sign repair job.
- Removed roadkill from Collier and Bald Eagle.
- Camera pipe on Amber Dr. Sinkhole found, no issue found after camera

inspection.

- Camera storm pipe on Collier Blvd. and Barfield intersection. Pipe needs repair, sinkhole filled.
- Installed car show banners on Collier Blvd.
- Synced timers on traffic signals along Collier Blvd.
- Cleaned concrete spill on Collier and Barfield.

Guard Rail Repair on W. Winterberry Bridge.



Travida Ter. Washout Repair



Crosswalk Painting on Shalimar and Antigua



Muspa Way Road Repair



Storm Drain Cleaning on Collier and Barfield



Road Closure at Bald Eagle Dr. and Barfield
(Gas main leak)



310 Worthington Swale Grading



Pipe Repair 791 Kendall Dr.

