



PORT ST. LUCIE
HEART OF THE TREASURE COAST

PUBLIC WORKS

Engineering
Standards
2025 Updates

Updates to various procedures and policies already in place

- Added references to FDOT and FDEP manuals
- Clarified the requirement for a Right of Way (ROW) permit to perform work within city drainage and road Right of Way
- Clarified directional bore requirements
- Updated uses that are allowed or prohibited in easement
- Clarified stormwater management criteria for perimeter berms, TMDL and BMAP goals, maintenance of drainage systems and minimum slope required for drainage pipes
- Updated allowable drainage pipe material to include double wall polypropylene pipe
- Added reinforced concrete pipe is allowed in residential driveways
- Updated minimum distance to a gated entrance on residential and commercial driveways

Roadways

Section 8.3 – Network Requirements

- Provides revisions to roadway network requirements
- New roads shall extend to parcel boundaries to allow for connectivity
- New development shall connect to existing road stub-outs from adjacent parcels

Section 8.6 – Roadway Cross-Section

- Provides roadway classification by Average Daily Trips (ADT)
- Specifies access management, minimum median width and Right of Way width by roadway classification
- Provides multimodal requirements by roadway classification

Section 8.7 – Pavement Design

- Added clarification to all adjustments to asphalt, base and subgrade thicknesses to meet the minimum pavement structural number
- Added a minimum structural number of 1.61 for temporary parking lots that are bonded for removal

Roadways

Section 8.9 – Medians

- Four (4) lane roadway and any roadway with a design speed of 35 mph or greater shall require a median
- Updated two (2) foot-wide paver band to two (2) foot-wide concrete band
- Specification for the color and pattern of the concrete band

Section 8.10 and 8.11 – Intersections and Modern Roundabouts

- Updated reference to FDOT Design Manual, Intersection Control Evaluation Manual and FDOT NCHRP Report 672.

Roadways

Section 8.12 - Driveways

- Added street lighting is required when connecting a driveway to a collector or arterial roadway
- Irrigation sleeve is required for all driveways within a public roadway
- Updated FDOT Standard Plan Index for driveway geometry
- Updated requirement for tooled transverse joints on concrete sidewalks
- Added requirement for forming residential concrete driveway, including saw cutting the existing edge of asphalt, and hot mix asphalt repair
- Added Code references for the number of access points required for residential subdivisions
- Updated NCHRP reference for left turn lanes

Roadways

Section 8.15 - Sidewalks

- Clarified minimum sidewalk width if sidewalk is located adjacent to the back of curb or edge of pavement
- Adds minimum thickness for concrete sidewalk within five (5) feet of a driveway and within access crossings to utilities or stormwater management facilities
- Added Four (4) foot minimum sidewalk width for curb ramps, landings and sidewalk crossing driveways
- Added transverse joints shall be tooled, not saw cut
- Added specification for installation of curb ramp with detectable warning, and restoration of asphalt with hot mix

Roadways

Section 8.19 – Mobility Plan

- Added Mobility Plan section and city website url

Traffic Control Devices, Signalizations and Lighting

Section 9.1 – Pavement Marking

- Added new striping on public roads shall follow FDOT specifications
- Added mill and overlay as the preferred method to remove striping
- Clarified hydroblasting as a method to remove pavement marking on final lift of asphalt is prohibited
- Black paint to remove or cover up pavement markings is prohibited
- Retro-reflective pavement marking standards shall be by MUTCD
- Added Marked Crosswalks shall be Special Emphasis

Traffic Control Devices, Signalizations and Lighting

Section 9.1.2 - Signage

- Added Sign general criteria.
- Added requirements for Driver Feedback Signs

Section 9.2 - Signalization

- Added condition and specifications for temporary span wire assemblies
- Added controller assembly and cabinet specifications
- Updated signal head specifications
- Added four (4) section flashing yellow arrow signal heads for protective/permissive left turn indications
- Updated specifications for traffic monitoring camera

Traffic Control Devices, Signalizations and Lighting

Section 9.2 - Signalization

- Updated accessible pedestrian signals qualification
- Specifies count down requirements for all new and modified pedestrian signals
- Added specification for construction material of all new signal heads
- Added qualification for leading pedestrian interval
- Added specification for treatment of pedestrian crosswalks at midblock and unsignalized intersections

Landscaping and Irrigation

Section 10.1 – General

- Updated reference to Irrigation Standards

Bicycle and Pedestrian Facilities

Section 11.1 – General

- Added requirement to evaluate connections and crossings at intersections and midblock crossings for safe bicycle and pedestrian access to bus stops, parks, public facilities, shared use paths, sidewalks and trails

Parking Areas

Section 12.4 – Stacking

- Added requirements for queuing analysis

Waste and Recycling Facilities

Section 13.1 – General

- Added the design of waste and recycling facilities must ensure drainage is directed internally

Submittals

Section 14.1 – General

- Added requirements for revision clouds on CAD-generated documents

Section 14.2 – Plats

- Added reference to Plat Review Checklist in Appendix A

Section 14.16 – Shop Drawings

- Added requirement for shop drawings for all private development projects that will eventually be turned over to the City for ownership and maintenance.

Submittals

Section 14.18 – Operation and Maintenance Manuals

- Update to the requirement in that the manuals must be provided even if the City does not specifically request them

Improvement Guarantees

Section 15.2 – Performance Guarantees

- Added requirements to provide a guarantee on all work performed with the City Right of Way

Section 15.3 – Maintenance Guarantees

- Added requirement for work done within City Right of Way as off-site improvements.

Project Permitting

Section 16.1 – Clearing & Mass Grading Permit

- Removal of specific response time for issuing the permit
- Extended the validity of the permit to one (1) year from six (6) months previously

Section 16.3 – Site Work Permit

- Removal of specific response time for issuing the permit
- Extended the validity of the permit to one (1) year from six (6) months previously

Project Permitting

Section 16.4 – Driveway/Culvert Permit

- Added requirement for 3rd party verification for authenticity of the signature on all surveys
- Added requirement for 12” minimum temporary pipe to be installed in Right of Way. A rejection fee will be charged if the pipe is not installed.
- Extended the validity of the permit to one (1) year from six (6) months previously

Section 16.5 – Right of Way Permit

- Added clarity that Road/Lane Closure must be provided for any roadway or sidewalk a minimum of 48 hours prior to closure

Construction Standards

Section 17.7 – Abatement of Erosion and Water Pollution

- Added requirements for construction entrance location to be on most minor roadway

Project Inspection

Section 18.3 – Site Work Inspections

- Added requirements for inspection of Right of Way Irrigation components by City Irrigation Inspector

Construction Standards

Section 19.3 – Roadway Turnover

- Added recommendation for submitting turnover documents ahead of time for review prior to submitting official request

Standard Details

- Update to Pavement Restoration Detail



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Thank you
Questions?