



City of Jacksonville LDPM: Updates to Drainage Design Guidelines

This handout highlights key updates to the City's Drainage Design Guidelines in LDPM. The revisions introduce new requirements for stormwater management, material specifications, and maintenance access. They support the Resilient Jacksonville Plan and integrate future climate considerations to ensure long-term system performance and regulatory compliance.



SUBMISSION REQUIREMENTS

If your site includes drainage elements, design information must be submitted as part of the Site Engineering Plan review.

*The submittal checklist **Form DSD-EPC** can be found on the LDPM website, but the details on each submittal can be found in the **Drainage Design Section** of the LDPM.*

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|---|---|
| <input type="checkbox"/> Master Drainage Map | <input type="checkbox"/> Flood Zone Information (as needed) |
| <input type="checkbox"/> Lot Grading Plan | <input type="checkbox"/> Drainage Calculations |
| <input type="checkbox"/> Soil Investigation Report | <input type="checkbox"/> Hydrologic and Hydraulic Study |
| <input type="checkbox"/> Maintenance of Drainage Plan (as needed) | <input type="checkbox"/> Off Site Drainage (as needed) |



DESIGN GUIDELINES (VOLUME 2)

LDPM Volume 2 includes important design guidelines for many types of drainage features.

Roadside Ditches & Swales

Drainage Outfalls & Canals

Closed Conveyance

Subsurface Drainage

Detention Basins

Erosion & Sedimentation Control

Key Updates to Drainage Design Guidelines

- The design storm frequency and intensity now reflect projected 2070 conditions, ensuring infrastructure is resilient to future climate impacts.
- All city standard inlets must include a 20 ft functional underdrain stub out on each side to support future underdrain connections.
- All underdrains must be fully wrapped in geotextile fabric (Type 1). *Type 2 and 3 underdrains are no longer allowed.*
- All wet detention facilities **must include a 15 ft accessway** around the perimeter to allow equipment access for maintenance activities.
- This section summarizes erosion and sediment control guidance from **Florida's Erosion and Sediment Control Designer and Reviewer Manual** and the **Stormwater Erosion and Sedimentation Control Inspectors Manual**, Tier 1 and Tier 2, and outlines contractor certification requirements.



MATERIAL SPECIFICATIONS (VOLUME 3)

The updated LDPM limits the acceptable materials to:

- Reinforced concrete pipe
- Corrugated steel pipe
- Corrugated aluminum pipe
- PVC pipe
- Smooth interior corrugated polypropylene

Note: To determine the best material for your drainage design, the LDPM encourages the use of the **FDOT Culvert Service Life Estimator**, which takes into account environmental conditions, pipe diameter, and available cover thickness.



New Requirement: all pipes must be inspected per FDOT pipe inspection guidelines. Inspection documents must be reviewed and submitted by the EOR before the infrastructure is accepted by the City.

The LDPM is now configured to work in conjunction with the City's other platforms - JaxEpics and Electronic Civil Site Plan Review.

Consolidation & Accessibility

HELPFUL LINKS:

JaxCivilPlan: jaxcivilplan.coj.net

JaxGis: maps.coj.net/jaxgis

JaxEpics: jaxepics.coj.net



All information is now location in one convenient location

Scan or click to access



To learn more about the updates to the LDPM, check out our video series.

