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Section 1 – INTRODUCTION

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1.1 GENERAL

The following module establishes guidelines, which will assist in the development standards set forth by the [City of Jacksonville](#). The methods, procedures, design factors, formulas, graphs, and tables presented in this manual are intended to establish minimal guidelines for the solution of drainage problems involving determinations of the quantity of runoff, rate of flow, method of collection, storage, and conveyance of storm water.

Alternative design methods may be considered by the Engineer/Designer on a case-by-case basis; however, there should not be extensive variations from the criteria and procedures within this division without the expressed approval of the City Engineer.

1.1.1 CITY ENGINEER

The City Engineer shall be responsible for interpretation and implementation of the stormwater management and design criteria for the City of Jacksonville. Approval from other applicable agencies may be required.

1.1.2 CITY OF JACKSONVILLE STORMWATER MANAGEMENT

It is the policy of the City of Jacksonville that all developed land within the City Limits has adequate stormwater facilities and controls to ensure the protection and safety of life and property. The City may accept stormwater management systems for maintenance if the system provides drainage for streets that have been accepted for maintenance by the City and have been designed and constructed in accordance with the provisions of the subdivision ordinance, the North Carolina *Erosion and Sediment Control Planning and Design Manual*, and this manual.

1.1.3 PERMITS

- A. **Plan approvals, Permits:** Prior to commencing construction, all plan approvals applicable permits shall be obtained. A preconstruction conference with the City Inspector must also be held prior to commencing any construction.
- B. **Encroachment Permits:** An encroachment permit will be required from any Contractor or Developer wishing to excavate or place storm drainage structures on either a NCDOT or Municipal public right-of-way.
- C. **Pavement Cuts:** Pavement cuts in streets shall be repaired in accordance with the specific requirements of public agency on whose street or roadway the utility is being placed, as well as any other applicable requirements dictated in the approved encroachment permit. Open cut crossings shall otherwise adhere, as applicable, to specification section **02275, Trenching, Backfilling & Compaction of Utilities.**
- D. Developer must obtain all other State and Local permits, as applicable (Air Quality, Erosion, and Sedimentation Control, Zoning, etc.)
- E. **Plan Review and Observation Fees:** All plan review and observation fees must be paid prior to approval of project. Refer to the current City fee schedule for applicable fees.

1.1.4 WETLANDS, WATERSHEDS, BUFFERS

All stream impacts by crossings, pipe placement, excavation, regrading, clearing, maintenance, etc. shall be subject to the applicable US Army Corps of Engineers 404 and DWQ 401 permit requirements in affect at the time of the permit application. Construction within jurisdictional wetlands and buffers shall conform to the applicable permit requirements of the issuing agency.

1.1.5 EROSION AND SEDIMENTATION CONTROL AND NPDES MONITORING, CONTROLS, AND LIMITATIONS FOR PERMITTED DISCHARGES

The Project Engineer shall submit a sedimentation and erosion control plan to the appropriate authority and obtain all necessary construction permits. The Contractor shall follow all local and state requirements regarding sedimentation and erosion control. Construction methods shall minimize sedimentation and erosion.

It is the Contractor's responsibility to periodically monitor the Stormwater Discharge Outfall points at the specified frequency and maintain reports as outlined in these specifications.

- A. **Final Limitations and Controls for Stormwater Discharges**

During the period beginning on the effective date of the permit and lasting until expiration, the Owner (Permittee) is allowed and authorized to discharge stormwater associated with construction activity. Such discharges shall be controlled, limited, and monitored as specified below.

- 1) The Contractor shall implement the Erosion & Sedimentation Control plan, which has been approved by the approval authority. The approved plan is considered a requirement or condition of the general NPDES permit. Deviation from the approved plan, or approved amendment to the plan, shall constitute a violation of the terms and conditions of this general permit except that deviation from the approved plan will be allowed:
 - a. To correct an emergency situation where sediments are being discharged off the site, or
 - b. When minor modifications have been made for the purpose of improving the performance of the erosion and sedimentation control measures and notification of the minor modification has been made to the Division of Land Resources (or approved local program).

Such a deviation from the approved plan shall be noted on the approved plan maintained at the job site. During active construction, a copy of the approved plan shall be maintained on the site.

- 2) Equipment utilized during the construction activity on a site must be operated and maintained in such a manner as to prevent the potential or actual pollution of the surface or ground waters of the state. Fuels, lubricants, coolants, and hydraulic fluids, or any other petroleum products, shall not be discharged onto the ground or into surface waters. Spent fluids shall be disposed of in a manner so as not to enter the waters, surface, or ground, of the state and in accordance with applicable state and federal disposal regulations. Any spilled fluids shall be cleaned up to the extent practicable and disposed of in a manner so as not to allow their entry into the waters, surface or ground, of the state.
- 3) Herbicide, pesticide, and fertilizer usage during the construction activity shall be consistent with the Federal Insecticide, Fungicide, and Rodenticide Act and shall be in accordance with label restrictions.
- 4) All wastes composed of building materials shall be disposed of in accordance with North Carolina General Statutes, Chapter 130A, Article 9 – Solid Waste Management, and rules governing the disposal of solid waste (North Carolina Administrative Code Section 15A NCAC 13B).