

GENERAL:

Comply with Jacksonville's City and FBC Standard Specifications for Drainage. Latest Revision and City Standard Details for Drainage. City requirements should be referenced but shall not comprise the entire specification for storm sewerage.

Design Professional to employ professional to locate service and to locate existing utilities during Design Phases. Design Professional to include on drawings location of existing utilities and structures. The Design Professional is responsible for assuring that all Permitting Requirements of Applicable Jurisdictional Agencies are met during both design and construction. Coordinate the location of existing utilities and structures with Plant Services to the extent practical during the design. Coordinate with City drainage system and St. Johns River Water Management District.

Preferred Materials and Installation (Specify the following)

Storm Drainage System – Use only RCP concrete piping underneath all pavement and building areas. Catch basins or inlets to be pre-cast, or cast in-place concrete. Grates and frames to be cast iron or steel. May use ADS-type piping at all exterior play areas such as tracks, football, baseball, softball and soccer fields. **Plastic inlets or plastic grates are not allowed.** Drainage pipe to be concrete, corrugated metal pipe or heliocoidal metal pipe (bituminous coated or aluminum). Detectable plastic marking tape shall be installed underground above buried utility lines, as required; to facilitate the location of the lines before damage to the lines can occur during required excavation.

Materials used shall comply with the Florida Department of Transportation and City of Jacksonville standards.

Non-shrinking grout for storm-line tie-in's to catch basins. Completely grout inside and outside of catch basins.

Avoid installation of catch basins in entrance drives. Catch basins shall be a minimum of 20' from any foundation.

Avoid installation of retention ponds at the front of schools and/or close to playgrounds. Permanent 6'- 0" fencing around all wet ponds (see Fencing Design Guidelines Sec 02001 for requirements) to be included in the base bid (Temporary fencing for safety to be provided during construction). A minimum 12'-0" wide gate to be provided. "No Trespassing" signs to be installed on the fence on each side of the pond. Use Bermuda or DCPS approved grass to stabilize all slopes and at top flat area of ponds, in-between fence and edge of pond.

Design must provide a 6' -0" maintenance area at the top of all retention ponds for 'ride-on' mowing equipment. Include slopes safe for 'ride-on' equipment and adequate room inside safety fencing.

Connect and seal with non-shrink grout all roof drains and downspouts directly to the underground storm sewerage system. Downspouts to splash blocks are prohibited. Provide protection around downspouts to 6' above grade. Pipes and/or culverts larger than 6" shall be protected by gratings or trash screens for the safety of children.

END OF SECTION 02720