

# GUIDELINES FOR PROFESSIONAL SERVICES

## DIVISION 33 – UTILITIES

The following items are to be included on the drawings and in the specifications by the Design Professional:

### I. SITE CONSIDERATIONS

#### A. Storm Water – Flooding and Drainage

1. Load bearing grates in traffic areas shall be cast iron (no stamped or riveted).
2. Grates shall be secured with hold down straps.
3. All storm water piping shall be Class III Reinforced Concrete pipe without lifting holes or HDPE corrugated plastic pipe. Metal storm water pipe shall not be used. The use of elliptical pipe is permitted but shall only be used when project conditions preclude the use of round pipe.
4. The slope in retention/detention areas shall not exceed 1:4. Trees in slopes shall be minimized to allow for mowing and in no case shall result in mowing widths less than 6 feet.

#### B. Potable Water and Sewer Facilities

1. All plans for future projects will be submitted with a completed application to the appropriate governing agency for review and approval; this review and approval by the appropriate governing agency will cover all HRS and DEP review requirements. In addition, the Design Professional will provide all site inspections required by the appropriate governing agency.
2. The demarcation between the sanitary sewer system and the domestic wastewater collection system (DWCS), shall be clearly shown on the plans.
3. Manholes – all interior surfaces shall have two (2) coats of bituminous mastic at a rate of not less than 120 square feet per gallon. Exteriors shall have one (1) coat of bituminous mastic at a rate of not less than 120 square feet per gallon.
4. Testing - all gravity sewer lines shall be tested by pulling a mandrel and air pressure testing.

#### C. Fire Main

1. Fire hydrants shall be painted to comply with local Fire Department requirements.