

## SECTION 02503 - STANDARDS OF UTILITY CONSTRUCTION

### PART 1 - GENERAL

#### 1.1 MINIMUM STANDARDS FOR SANITARY SEWERS

- A. Wherever possible, sanitary sewer systems along streets shall be located on the opposite side of the street from water mains.
- B. As the sanitary sewer system is installed, sewer lines shall be marked with a 2" x 4" or other acceptable stake, with a height allowing a minimum of 6'-0" above grade. Stake shall have the uppermost section painted green, and marked with the letters "SS" to indicate sewer line placement.
- C. During the placement of new concrete curb, utility marking shall be embossed into the top of the curb. The marking shall be 2-inch high letters and be "SS" for a sanitary sewer lateral and "MH" for a sanitary manhole. The stamp shall be placed into the concrete before the concrete sets up. The letters shall be located perpendicular from the utility feature that is being marked.
- D. All Street castings must be black asphalt dipped.

#### 1.2 MINIMUM STANDARDS FOR WATERMAINS

- A. Water main supply system for subdivisions and industrial/business parks shall be "looped" to allow for both a primary and secondary water supply to the site.
- B. Wherever possible, water main systems along streets shall be located on the opposite side of the street from sanitary sewer lines.
- C. Lateral connections should be installed in conjunction with installation of water mains. The water main system shall be designed to wrap around not less than 75% of the outside turning circle of the cul-de-sac.
- D. As the water main system is installed, water lines shall be marked with a 2" x 4" or other acceptable stake, with a height allowing a minimum of 6'-0" above grade. Stake shall have the uppermost section painted blue, and marked with the letter "W" to indicate water line placement.
- E. After water mains, hydrants, and valves are installed, there shall be a raised pavement marker installed along the center line of the street perpendicular to each hydrant. The raised pavement marker "RPM" shall

be a blue reflector and as specified in the INDOT Specification Standards, Section 808.10. See Figure P-21 and P-22 in Specification Section 02500.

- F. During the placement of new concrete curb, utility marking shall be embossed into the top of the curb. The marking shall be 2-inch high letters and be "WM" for a water meter and "V" for a water valve. The stamp shall be placed into the concrete before the concrete sets up. The letters shall be located perpendicular from the utility feature that is being marked.
- G. All Street castings must be black asphalt dipped.

### 1.3 MINIMUM STANDARDS FOR STORM SEWERS

- A. As the storm sewer system is installed, storm sewer lines shall be marked with a 2" x 4" or other acceptable stake, with a height allowing a minimum of 6'-0" above grade. Stake shall have the uppermost section painted red, and marked with the letters "D" to indicate subsurface drain line placement.
- B. During the placement of new concrete curb, utility marking shall be embossed into the top of the curb. The marking shall be a 2-inch high letter and be a "D" for a subsurface drain. The stamp shall be placed into the concrete before the concrete sets up. The letters shall be located perpendicular to the utility feature that is being marked.
- C. All Street castings must be black asphalt dipped.

### PART 2 - PRODUCT

Not Applicable

### PART 3 - EXECUTION

Not Applicable

END OF SECTION 02503