

SECTION 01800

TEMPORARY UTILITY IDENTIFICATION MARKINGS

PART I: GENERAL

1.1 GENERAL REQUIREMENTS

- A. Markings that identify utilities during construction.
- B. Markings that identify water, sanitary sewer, and storm manholes, valves, meters and cleanouts.

1.2 MEASUREMENT AND PAYMENT

- A. Unit Prices:
 - 1. No separate payment shall be made for marking utilities during and after new construction or repair under this Section.

1.3 REFERENCES

- A. APWA – American Public Works Association.
 - 1. APWA – Recommended Marking Guidelines for Underground Utilities.
- B. CFSD – City of Friendswood Standard Details.

1.4 SUBMITTALS

- A. Conform to requirements of Section 01330 – Submittal Procedures.
- B. Submit manufacturer's product data concerning following materials for approval on type of marking paint being used.

PART II: PRODUCTS

2.1 PAINT FOR UTILITY IDENTIFICATION FOR EXCAVATIONS

- A. Krylon Industrial Quik-Mark Solvent Based Inverted Marking Paint complying with APWA Recommendations or approved equal.

2.2. Markings for identification of newly installed utilities.

- A. Krylon Industrial Quik-Mark Solvent-Based Inverted Marking Paint complying with APWA Recommendations or approved equal. The following colors shall be used for potable water and sanitary sewer:
 - 1. Potable Water: Krylon Industrial Quik-Mark Solvent-Based Inverted Marking Paint SO3903 or equivalent approved by the City's Project Manager.
 - 2. Sanitary Sewer: Krylon Industrial Quik-Mark Solvent-Base Inverted Marking Paint SO3904 or equivalent approved by the City's Project Manager.
- B. Storm Sewer Manhole markings shall use Krylon Industrial Quik-Mark Solvent Based Paint or equivalent approved by the City's Project Manager.

PART III: EXECUTION

3.1 PREPARATION

- A. Accurately locate and install approved markers to conform to classes and colors indicated in this Section.
- B. Clean and repair surfaces to receive markings. Remove loose material, dust and contaminants such as oil, curing membrane or polished aggregates.

3.2 INSTALLATION

- A. Utility markings for excavation purposes shall be single line and have symbols approved by the APWA.
- B. See City of Friendswood Standard Marking Details for examples of new utility markings.
- C. Saw-cut curb or edge of pavement so that the saw-cut length matches the length as specified below. Saw-cut shall be a minimum of four inches (4 In) in length by one-quarter inch (1/4 In) in width by one-eighth inch (1/8 In) in depth.
- D. Markings for newly installed utilities shall comply with the following:
 - 1. Water Valves shall be marked by a nine inch (9 In) long by six inch (6 In) wide blue marker, using Krylon SO3903 marking

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paint and shall be perpendicular to the centerline of the road.

2. Water Meters shall be marked by a nine inch (9 In) long by three inch (3 In) wide blue marker, using Krylon SO3903 marking paint and shall be perpendicular to the centerline of the road.
3. Sanitary Sewer Manholes shall be marked by a nine inch (9 In) long by six inch (6 In) wide green marker, using Krylon SO3904 marking paint and shall be perpendicular to the centerline of the road.
4. Sanitary Sewer Clean-outs shall be marked by a nine inch (9 In) long by three inch (3 In) wide green marker, using Krylon SO3904 marking paint and shall be perpendicular to the centerline of the road.
5. Storm Sewer Manholes shall be marked by a nine inch (9 In) long by three inch (3 In) wide black marker, using Krylon SO3550 marking paint and shall be parallel to the centerline of the road.

3.4 WARRANTY

- A. Warrant material and labor for period of twelve months (12 Mos) from date of installation of markings.

END OF SECTION

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