Coordinate with Municipality for use.

1. Marker Balls, SPV.0060.##

A Description

This special provision describes providing marker balls over the sanitary and storm sewer laterals that provide a signal that can be located by the City’s utility locator after construction is completed.

B Materials

Provide maker balls that are equivalent to the 3M ScotchMark Electronic Marker System Full-Range Marker (Model 1404-XR, wastewater and Model 1408-XR, general). The range on this marker ball device is from 0 to 5 feet in depth. If different devices are proposed, submit specifications, data sheets, and a sample of the proposed device to the engineer for approval before ordering. The engineer will confirm that the proposed marker device is compatible with the City’s locating equipment.

C Construction

Place a minimum of two marker balls for each sanitary or storm lateral: one to be located above the connection on the sewer main and one to be located at or near the right-of-way line or at the end of the proposed relay/new installation. Place an additional marker ball at all horizontal and vertical alignment change of the lateral. Physically attach the marker ball to the lateral so the marker ball will be no deeper that 3.5-feet below finished grade and directly above the lateral. If the location of the lateral is below 3.5 feet from finished grade, partially backfill trenches before placement of the marker ball at the desired locations (above connection, property line, and alignment changes).

Use green, wastewater, marker balls for sanitary laterals and pink, general, marker balls for storm laterals.

Notify the engineer when marker balls are installed. Each marker ball will be tested by the City to confirm that it is installed and functioning properly. If it is not installed or functioning, excavate to expose the existing marker ball or lateral and place a new marker ball. No additional compensation will be provided for this work.

D Measurement

The department will measure Marker Balls as each individual marker ball acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER DESCRIPTION UNIT

SPV.0060.## Marker Ball EACH

Payment for the Marker Ball item is full compensation for providing and installing properly functioning marker balls. The department will not pay for replacing those that are non-functional.

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