

**Item No. 725S  
Survey Markers**

**725S.1 Description**

This item shall consist of the installation of type of survey markers furnished by the City at locations indicated on the Drawings or as directed by the Engineer or designated representative.

This specification is applicable for projects or work involving either inch-pound or SI units. Within the text, the inch-pound units are given preference followed by SI units shown within parentheses.

**725S.2 Submittals**

The submittal requirements of this specification item include:

- A. Class A p.c. concrete mix design,
- B. Type of survey marker and associated construction details.

**725S.3 Materials**

Survey marker types A, B, C and D shall be cast metal anchor plates that are provided by the City of Austin Department of Public Works or successor department. The completed survey markers are used for future survey reference markers.

Type A survey makers (Standard Detail No. 725S-1) shall be used on all City of Austin Capital Improvement Projects (CIPs), while types B (Standard Detail No. 725S-2) and C (Standard Detail No. 725S-3) shall be used on all subdivisions within the City of Austin Extra Territorial Jurisdiction (ETJ). A type D marker (Special Detail No. SD725S-4) shall be used to visually delineate locations of landfill area soil caps. A type C marker shall be used for all aerial mapping projects.

For CIP Roadway Construction Projects a type A survey monument shall be installed within an adjustable valve box (Standard Detail No. 725S-11) and anchored in Class A p.c. concrete (Standard Detail No. 725S-10). Survey markers B and C shall be anchored in a p.c. concrete mass (Standard Detail No. 725S-7) with minimum dimensions of 12 inches (300 mm) in width and 18 inches (450 mm) in depth, unless directed otherwise by the Engineer or designated representative.

Survey marker D shall be anchored in a p.c. concrete mass (Standard Detail No. 725S-4, sheet 2) with minimum dimensions of 6 inches (150 mm) in width and 12 inches (300 mm) in depth, unless directed otherwise by the Engineer or designated representative.

**725S.4 Construction Methods**

Survey markers of the type specified shall be installed complete in place at locations indicated on the Drawings or as directed by the Engineer or designated representative. They shall be properly referenced by a Registered Professional Land Surveyor licensed in the State of Texas and set at locations that are clear of obstructions that would interfere with the setup of tripods and survey instruments over the marker.

**725S.5 Measurement**

Survey markers shall be measured per each marker type, installed complete in place as described in the Construction Methods section above (725S.4).

**725S.6 Payment**

This item shall be paid for at the unit bid price per each type of Survey Marker, installed complete in place. The unit bid prices shall include full compensation for all materials, p.c. concrete, labor, equipment and incidentals necessary to complete the work, including excavation for installation of the survey marker and p.c. concrete and restoration of the site to the condition necessary for construction of sidewalk or other structures around the survey marker.

Payment will be made under:

<b>Pay Item No. 725S-A:</b>	Type A Survey Identification Marker	Per Each.
<b>Pay Item No. 725S-AR:</b>	Type A Survey Identification Marker with Adjustable Valve Box	Per Each.
<b>Pay Item No. 725S-B:</b>	Type B Survey Identification Marker	Per Each.
<b>Pay Item No. 725S-C:</b>	Type C Survey Identification Marker	Per Each.
<b>Pay Item No. 725S-D:</b>	Type D Survey Identification Marker	Per Each.

**End**

<b><u>SPECIFIC</u></b> Cross References Materials
Specification Item No. 725S, "Survey Markers"

City of Austin Standard Specifications

<u>Designation</u>	<u>Description</u>
Item No. 403S	Concrete for Structures

City of Austin Standard Details

<u>Designation</u>	<u>Description</u>
Item No. 725S-1	Monument, Type A Survey Identification Marker
Item No. 725S-2	Monument, Type B Survey Identification Marker
Item No. 725S-3	Monument, Type C Survey Identification Marker
Item No. SD725S-4	Monument, Type D Survey Identification Marker
Item No. 725S-7	Survey Identification Marker, Non Traffic Construction Detail
Item No. 725S-10	Survey Identification Marker, Roadway Traffic Construction Detail
Item No. 725S-11	Adjustable Valve Box for Survey Monument

<b><u>RELATED</u></b> Cross References Materials
Specification Item No. 725S, "Survey Markers"

City of Austin Standard Specifications

<u>Designation</u>	<u>Description</u>
Item No. 401S	Structural Excavation and Backfill