

ITEM 666

PREFABRICATED PAVEMENT MARKINGS

666.1 Description. This Item shall govern for furnishing and placing prefabricated pavement markings of the types, colors, shapes and sizes as shown on the plans.

666.2 Materials. Prefabricated pavement marking materials shall conform to Texas Department of Transportation Material Specification DMS-8240, "Permanent Prefabricated Pavement Markings."

Materials shall be stored in a weather-proof enclosure in such a manner to prevent damage.

666.3 Sampling. Sampling will be in accordance with Test Method Tex-732-I, "Sampling Prefabricated Pavement Marking Materials."

666.4 Construction Methods.

(1) General. When required by the Engineer, the Contractor and the Engineer shall review the sequence of work to be followed and the estimated progress schedule. Waste generated by this work shall be removed from the job site before the end of each working day.

Guides to mark the lateral location of pavement markings shall be established as shown on the plans or as directed by the Engineer. The Contractor shall establish the pavement marking guides and the Engineer will verify the location of the guides prior to installation.

The pavement markings shall be placed in proper alignment with the guides. The deviation rate in alignment shall not exceed one (1) inch per 200 feet of roadway. The maximum deviation shall not exceed two (2) inches nor shall any deviation be abrupt.

(2) Seasonal Limitation. Unless otherwise directed in writing by the Engineer, pavement marking materials shall not be placed between September 30 and March 1, subject to temperature and moisture limitations specified.

(3) Dimensions. Markings shall be in accordance with the color, length, width, shape and configuration shown on the plans. The

alignment and location shall be as shown on the plans or as directed by the Engineer in writing.

- (4) **Methods.** All material placement shall be in accordance with the material manufacturer's instructions, unless otherwise directed in writing by the Engineer. In addition to the manufacturer's instructions, material placement shall be in accordance with surface condition, moisture and temperature requirements specified by this Item.
- (5) **Surface Preparation.** Surface preparation shall be accomplished by any cleaning method approved by the Engineer that effectively removes contaminants, loose materials and conditions deleterious to proper adhesion. Surface preparation by blast cleaning will not be required unless shown on the plans. When required, blast cleaning shall be done in accordance with Item 669, "Pavement Surface Preparation for Marking". Surfaces shall be further prepared after cleaning by sealing or priming, as recommended by the manufacturer of the pavement marking materials or as directed in writing by the Engineer.

Adhesive, when required, shall be of the type and quality recommended by the manufacturer of the pavement marking material. Portland cement concrete pavement surfaces shall not be cleaned by grinding.

- (6) **Moisture.** Pavement to which material is to be applied shall be completely dry. Pavements shall be considered dry if, on a sunny day after observation for 15 minutes, no condensation occurs on the underside of a one (1) foot square piece of clear plastic that has been placed on the pavement and weighted on the edges.
- (7) **Temperature.** Pavement and ambient air temperature requirements recommended by the material manufacturer shall be followed. If no temperature requirements are established by the material manufacturer, material shall not be placed if the pavement temperature is below 60° F or above 120° F.

666.5 Performance Requirements.

- (1) **Adhesion.** Installed pavement markings shall not lift, shift, smear, spread, flow or tear by traffic action.

- (2) Appearance. Pavement markings shall present a neat, uniform appearance, free of excessive adhesive, ragged edges and irregular lines or contours.
- (3) Visibility. Installed pavement markings shall have uniform and distinctive retroreflectance when observed in accordance with TxDOT Test Method Tex -828-B, "Determining Functional Characteristics of Pavement Markings"
- (4) Observation Period. Unless otherwise shown on the plans, pavement markings shall meet all requirements of this specification for a minimum of 15 calendar days after installation. Pavement markings that fail to meet all requirements of this specification shall be removed and replaced at the expense of the Contractor. The Contractor shall replace all pavement markings failing the requirements of this specification within 30 working days following notification in writing by the Engineer. All replacement pavement markings shall also meet all performance requirements of this specification for a minimum of 15 calendar days after installation.

666.6 Measurement. This Item will be measured by each word(s), shape or symbol as shown on the plans.

666.7 Payment. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Prefabricated Pavement Markings" of the various types, colors, shapes and sizes specified. This price shall be full compensation for cleaning the pavement by any suitable means, for furnishing and placing all materials; and for all labor, tools, equipment and incidentals necessary to complete the work.

There are line code(s), description(s) and unit(s) for this item:

NOTE: This specification requires other Standard Specification:

Item 669 - "Pavement Surface Preparation for Markings"

END OF ITEM 666