

SECTION 9100 - PAVEMENT MARKINGS

9101 **SCOPE.** This section discusses the requirements for pavement markings.

9102 **DEFINITIONS.** *Longitudinal markings* shall include pavement markings parallel to the path of travel and include such items as centerlines, lane lines, edge lines, and barrier lines. Lines may be either continuous (solid) or broken.

Transverse markings shall include pavement markings perpendicular to the path of travel and include such items as channelizing lines, stop bars, crosswalk lines, railroad crossing approaches, parking limit lines, turn arrows, and word or symbol messages.

9103 **GENERAL.** All pavement markings shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All words and symbols shall conform to the latest edition of *Standard Highway Signs* printed by the US Department of Transportation, Federal Highway Administration. All pavement marking material shall be included on the City of Gardner *Approved Materials List*, latest edition.

Contractor shall be required to layout the location of all longitudinal pavement markings before the surface lift of asphalt is paved. Layout shall include reference lines that result in the proper lane widths and ensure the pavement markings will be located the proper distance from pavement joints. The layout will need to be approved by the City Engineer prior to pavement marking installation.

All turn arrows and legends shall be centered in their respective traffic lanes. Pavement markings, either temporary or permanent, are required at all times if the roadway is open to traffic. All existing markings that conflict with the proposed markings shall be completely removed. The edge of pavement markings paralleling the longitudinal pavement joints shall be located four (4) inches to eight (8) inches from the pavement joint unless otherwise approved by the City Engineer.

All longitudinal markings shall be HPS-8 Integrated Multi-Polymer Pavement Markings (HPS-8) or cold tape (hot-inlaid) per the manufacturer's recommendations and the following requirements:

- Application of HPS-8 shall only occur from April 1 to Nov 1 and shall comply with all manufacturer's recommendations, unless otherwise approved by the City Engineer. Pavement markings installed outside these dates, or when HPS-8 cannot be installed due to manufacturer's recommendations, shall be cold plastic. Cold plastic pavement markings shall be hot-inlaid in conjunction with the paving operation. Application shall be done per manufacturer's recommendations, unless otherwise approved by the City Engineer.
- HPS-8 pavement markings shall not be applied within 24-hours of final paving to allow for proper curing of the pavement. HPS-8 pavement markings shall be installed within fifteen (15) calendar days of final paving, unless otherwise approved by the City Engineer.
- The material shall be 100% solids and shall be applied by standard thermoplastic application equipment at a thickness of 90 mil.

- The material shall be applied by truck mounted equipment unless otherwise approved by the City Engineer.
- A verifiable material certification report showing detailed analysis and compliance shall be provided by the material manufacturer and submitted to the City Engineer for approval prior to the Contractor performing the installation work.

Symbols and transverse markings shall be pre-formed thermoplastic. Application shall be done per manufacturer's recommendations, unless otherwise specified or approved by the City Engineer.

A manufacturer approved primer shall be used on existing asphalt pavement older than 12 months, or on concrete pavement.

Temporary markings shall be removable tape or paint, and shall be maintained throughout the duration of construction. Temporary markings shall be subsidiary to HPS-8 Pavement Markings unless stated otherwise in the approved plans.

The Contractor shall coordinate any pavement marking operations with the Project Inspector and Traffic Operations staff a minimum of twenty-four (24) hours in advance of installing any pavement markings.