

SECTION 02742

PAVEMENT MARKINGS

PART 1 GENERAL

1.01 SUMMARY

- A. This Section includes furnishing and installing thermo-plastic reflectorized pavement markings for pedestrian crosswalks, stop lines, lane lines, centerlines, word and symbol markings removed by construction operations or as indicated in this Section.

1.02 RELATED SECTIONS

- A. Section 01300 – Submittals
- B. Section 01570 – Construction Zone Safety Plan
- C. Section 02741 – Pavement Removal and Replacement

1.03 CODES AND STANDARDS

- A. Massachusetts Department of Transportation (MassDOT), Highway Division Standard Specifications for Highways and Bridges
- B. U.S. Department of Transportation, Federal Highway Administration, Manual on Uniform Traffic Control Devices (MUTCD)
- C. Needham Street Opening Permit

1.04 SUBMITTALS (NOT USED)

1.05 QUALITY ASSURANCE (NOT USED)

1.06 QUALIFICATIONS (NOT USED)

1.07 DELIVERY, STORAGE, AND HANDLING (NOT USED)

1.08 PROJECT/SITE CONDITIONS

- A. Environmental Requirements:
 - 1. Pavement marking installations shall be performed during dry weather with temperatures of at least 45 degrees Fahrenheit.

2. Environmental conditions for temporary pavement marking installation shall conform to sub-section 860.62 of MassDOT Standard Specifications for Highways and Bridges.

1.09 DEFINITIONS (NOT USED)

1.10 TOLERANCE (NOT USED)

PART 2 PRODUCTS

2.01 MATERIALS

- A. White Thermoplastic ReflectORIZED Pavement Markings shall meet the requirements of the referenced Standard Specifications for Highways and Bridges, Division III, Materials M7.01.03.
- B. Yellow Thermoplastic ReflectORIZED Pavement Markings shall meet the requirements of the referenced Standard Specifications for Highways and Bridges, Division III, Materials M7.01.04.
- C. White and yellow temporary reflective lane tape shall meet the requirements of the referenced Standard Specifications for Highways and Bridges, Division III, Materials M7.01.16.

2.02 EQUIPMENT

- A. Equipment shall include devices necessary for the application of the reflectORIZED pavement markings.

2.03 COMPONENTS

A. Pedestrian Crosswalks

1. Crosswalk lines shall be solid white, 12-inches wide, unless otherwise noted.

B. Stop Lines

1. Stop lines shall be solid white. Stop lines installed in combination with a marked crosswalk shall be 12-inches wide. Stop lines installed without a marked crosswalk shall be 24-inches wide.

C. Lane Lines

1. Lane lines shall be solid white, 4-inches wide.
2. Lane lines on state routes shall be solid white, 6-inches wide.

D. Centerlines

1. Centerlines shall be double yellow, 4-inches wide.

E. Word and Symbol Markings

1. Word and symbol markings shall be solid white.

PART 3 EXECUTION

3.01 SEQUENCING AND SCHEDULING

- A. Provide temporary markings on temporary pavements where existing markings are removed.
- B. Permanent pavement markings shall be installed subsequent to final pavement replacement.

3.02 EXAMINATION

- A. Determine that the conditions are acceptable to receive reflectorized pavement markings.

3.03 PREPARATION

A. Protection

1. The surrounding areas and surfaces shall not be defaced.

B. Surface Preparation

1. The surface shall be dry and free of sand, grease, oil or other foreign substances prior to the application of reflectorized pavement markings.

3.04 INSTALLATION

A. General

1. Replace all pavement markings, legends, lane arrows and other markings disturbed by construction activities and as indicated.
2. Permanent Pavement Markings:
 - a. Replace all reflectorized pavement markings removed or covered over, no sooner than 48 hours and no later than 120 hours after completion of final pavement. The markings shall be white or yellow, single or double lines matching existing conditions with width as indicated in this Section.

- b. Markings shall conform to MassDOT Standard Specifications, Section 860 - Reflectorized Pavement Markings.

3. Temporary Pavement Markings:

- a. Markings shall conform to MassDOT Standard Specifications, Section 860 - Reflectorized Pavement Markings.

B. Lanes Lines

- 1. Lane line shall begin at the stop line and shall extend perpendicular thereto for- 60 feet prior to the intersection. The center-to-center dimension shall match the existing spacing.

C. Centerlines

- 1. Centerlines shall be placed at the locations in the roadway where they existed prior to the start of construction.

3.05 APPLICATION

- A. Reflectorized pavement markings shall be applied in accordance with the MassDOT Standard Specifications, Section 860.62.

3.06 PROTECTION

- A. Installed reflectorized pavement markings shall be protected from the traveling public until dry.

**** END OF SECTION ****