

SECTION 3500 – PAVEMENT MARKINGS

PAVEMENT MARKINGS

PART 1 – GENERAL

1.01 Section Summary

- A. Furnishing and installing specified pavement markings at the designated locations.

1.02 Related Sections

- A. Section 1500 – Removals
- B. Section 3000 – Hot Mix Asphalt Pavement
- C. Section 3100 – Portland Cement Concrete Pavement

1.03 References

- A. North Dakota Department of Transportation "Standard Specifications for Road and Bridge Construction," 2014 Edition, as revised.
 - 1. Section 762 – Pavement Marking.
 - 2. Section 880 – Pavement Markings.
- B. Manual on Uniform Traffic Control Devices, 2009 Edition, as Revised.

PART 2 – PRODUCTS

2.01 Materials

- A. All pavement marking materials used shall be in conformance with Sections 762 and 880 of the NDDOT Specifications.

2.02 Equipment

- A. All equipment used for the installation of pavement markings shall be in compliance with section 762.02 of the NDDOT Specifications.

PART 3 – EXECUTION

3.01 General

- A. A project layout of the pavement striping and marking shall be prepared and submitted to the Engineer for approval 48 hours before any installation work.

3.02 Preparation

- A. Surfaces to which various pavement markings will be applied shall be prepared in accordance with Section 762.04.A of the NDDOT Specifications.

3.03 Traffic Control

- A. All traffic control during pavement marking operations shall conform to Section 762.04.B of the NDDOT Specifications. -ADD Section 704 "Temporary Traffic Control."

3.04 Application

- A. Method of application, application dates and temperatures, rate(s) of application, and short-term pavement markings shall conform to Section 762 of the NDDOT Specifications.
- B. Preformed Patterned Pavement Marking Film
 - 1. The application of preformed patterned pavement marking film shall conform to Section 762.04.C.4 of the NDDOT Specifications.
- C. Raised Pavement Markers
 - 1. The installation of raised pavement markers shall conform to Section 762.04.D.5 of the NDDOT Specifications.
- D. Epoxy Paint Pavement Markings
 - 1. The application of epoxy paint pavement markings shall conform to Section 762.04.C.3 of the NDDOT Specifications.
- E. Water Based Paint
 - 1. The application of epoxy paint and glass beads shall conform to Section 762.04.C.2 of the NDDOT Specifications.

3.05 Inspection and Acceptance

- A. The inspection and acceptance of various pavement markings and the correction of defects/penalties will be according to Section 762.04.C.1.c of the NDDOT Specifications.

PART 4 – MEASUREMENT AND PAYMENT

- A. Method of measurement and basis of payment shall conform to Section 762.05 and 762.06 of the NDDOT Specification.
1. Upon discretion of the Engineer, a reduction in pay for long line striping shall be made for reduced thickness and/or width. Width shall be computed by random measuring. Thickness shall be computed by the following formula:

$$\text{Mils Thickness} = \frac{\text{Gallons} \times 231}{\text{Linear Length} \times \text{Striping Width}}$$

The Contractor shall provide the Engineer with the linear feet of 4-inch stripe and gallons of paint used at the end of each days striping.

Where yield computations show a deficiency in material usage of not more than 10 percent, the City may require satisfactory repair or may accept the work at a reduced unit price, which is in direct proportion of the percent of the deficiency. Where the deficiency in material usage exceeds 10 percent, the City may require restriping to the satisfaction of the Engineer.

- B. Obliterate Pavement Markings: Shall be paid for in accordance with Section 1500 – Removals.
- C. All costs to properly complete the work specified herein and/or shown on the Plans shall be included in the prices bid for these or other items unless applicable bid items are included on the Bid Form.

END OF SECTION