Signed by:
Matthew V. Springer, PE
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12-23-25

INLAID PAVEMENT MARKING:

(12-23-25)

Description

Construct inlaid pavement markings on all road surfaces except for concrete bridge decks using the appropriate application equipment in accordance with Section 1205 of the *Standard Specifications*, the plans and this special provision.

Materials

All pavement marking materials shall meet the applicable requirements of Article 1205-2 of the *Standards Specifications* and and any applicable special provisions found elsewhere in the contract.

Construction Methods

Construct inlaid pavement marking in accordance with Section 1205 of the Standard Specifications, this special provision and any applicable special provision found elsewhere in the contract.

(A) Application Equipment

Use pavement marking equipment in accordance with Section 1205 of the *Standard Specifications*.

Equip the cutting or grinding equipment with a free-floating head to provide a consistent groove depth over irregular pavement surfaces. The cutting or grinding equipment must be capable of producing a final pavement surface that is flat and free of ridges.

(B) Surface Preparation

Remove any materials or debris that would prevent cutting or grinding in accordance with this special provision. Use a removal method approved by the engineer. Before installing pavement markings, prepare the surface in accordance with Section 1205 of the *Standard Specifications*.

Premarking will be incidential to other items in the contract. Unless directed by the Engineer, there will be no driect payments for interim paint.

(C) Application

Recess the pavement markings into the final surface. Cut or grind the recessed area to a depth 20 mils deeper than the thickness of the final marking. Cut or grind the recessed area 1 inch wider than the final marking width. For skip or broken lines, the recessed area shall extend a maximum 6 inches past the ends of the marking. For characters and symbols the recessed area shall extend 1 inch past the outside edge of the marking.

Weather and seasonal limitations, application, and observation period shall be in accordance with Article 1205 of the *Standard Specifications.*

Use high performance glass beads listed on the NCDOT APL for all drop on reflective media.

All final markings shall be Extruded 90 mil Thermoplastic, Cold Applied Plastic, Integrated Multipolymer, Polyurea, or Heated-in-Place Thermoplastic

For minimum initial retroreflectivity requirements, see chart below.

MINIMUM INITIAL REFLECTOMETER READINGS		
Item	**Color**	**Reflectivity**
High Performance Glass Beads	White	425 mcd/lux/m^2
	Yellow	325 mcd/lux/m^2

Measurement and Payment

Inlaid _____ Pavement Marking Lines will be measured and paid as the actual number of linear feet of inlaid pavement marking lines satisfactorily placed and accepted by the Engineer. The quantity of solid lines will be the summation of the linear feet of solid line measured end-to-end of the line. The quantity of skip or broken lines will be the summation of the linear feet derived by multiplying the nominal length of a line by the number of marking lines satisfactorily placed.

Inlaid _____ Pavement Marking Characters and *Inlaid _____ Pavement Marking Symbols* will be paid as the actual number of inlaid symbols and characters satisfactorily placed and accepted by the Engineer.

Inlaid In Lane Route Shields will be measured and paid for in units of each that have been satisfactorily placed and accepted by the Engineer.

Such prices and payment will be full compensation for all work covered by this special provision including, but not limited to, the work involved in applying the lines, furnishing, surface preparation, primer, reapplication of molten pavement marking crossed by a vehicle, and removal of all pavement marking materials spilled on the roadway surface. Premarking will be incidental to other items in the contract.

The Contractor may choose to use heated-in-place thermoplastic symbols, characters and transverse lines instead of molten thermoplastics pavement markings and cold applied plastic at no additional cost to the Department.

Replacement of pavement markings that prematurely deteriorated, failed to adhere to the pavement, lacked reflectorization or were otherwise unsatisfactory during the life of the project or during the 12 month observation period as determined by the Engineer will be at no cost to the Department.

Payment will be made under:

Pay Item	**Pay Unit**
Inlaid Thermoplastic Pavement Marking Lines, ___", ___ mils	Linear Foot
Inlaid Polyurea Pavement Marking Lines, ___", ___ mils	Linear Foot
Inlaid Cold Applied Plastic Pavement Marking Lines, Type _____, ___ "	Linear Foot
Inlaid Heated-In-Place Pavement Marking Lines, ___", ___ mils	Linear Foot
Inlaid Integrated Multipolymer Pavement Marking Lines, ___", ___ mils	Linear Foot
Inlaid Thermoplastic Pavement Marking Symbols, ___ mils	Each
Inlaid Cold Applied Plastic Pavement Marking Symbols, Type _____	Each
Inlaid Heated-In-Place Pavement Marking Symbols, ___ mils	Each
Inlaid Integrated Multipolymer Pavement Marking Symbols, ___ mils	Each
Inlaid Thermoplastic Pavement Marking Characters, ___ mils	Each
Inlaid Cold Applied Plastic Pavement Marking Symbols, Type _____	Each
Inlaid Heated-In-Place Pavement Marking Symbols, ___ mils	Each
Inlaid Integrated Multipolymer Pavement Marking Symbols, ___ mils	Each
Inlaid In Lane Route Shields	Each