

## SECTION 629 - PAVEMENT MARKINGS

Make the following amendments to said Section:

(I) Amend **Subsection 629.03(B) – Temporary Pavement Markings** by revising the third paragraph from line 62 to 63 to read:

“Maintain and replace temporary pavement markings, flexible delineators, and barricades. ”

(II) Amend **Table 629.03 – 1 – Temporary Pavement Markings** to read as follows:

| “TABLE 629.03-1 TEMPORARY PAVEMENT MARKINGS   |  |
|---|--|
| TYPE  | PAVEMENT MARKINGS  |
| Passing Permitted - Both Sides  | Single 4-inch yellow stripe 5 feet in length spaced 20 feet on center with Type D markers spaced 40 feet on center and located on center of 5-foot length of stripe.   |
| Passing Prohibited - Both Sides   | Double solid 4-inch yellow stripes with Type D markers placed 20 feet on center on one of 4-inch yellow stripes selected by the Engineer.  |
| Passing Permitted - One Side Only   | Single continuous 4-inch yellow stripe with Type D markers placed on stripe 20 feet on center on no-passing side and single 4-inch yellow stripes 5 feet in length spaced 20 feet on center on passing side. |
| Lane Lines - Lane Changing Permitted  | Single 4-inch yellow or white stripe 5 feet in length spaced 20 feet on center with Type C or Type D markers spaced 40 feet on center.   |
| Lane Lines - Lane Changing Prohibited   | Double solid 4-inch white stripes with Type C markers placed 20 feet on center on one of the 4-inch white stripes selected by the Engineer.  |
| Crosswalk   | Two 12-inch white transverse lines spaced 8 feet on center or as ordered by the Engineer.  |
| Stop Line   | Single 12-inch white transverse line.  |
| <b>Note:</b> Paint may be used for temporary markings in areas where final paving is not complete.” |  |

(III) Amend **Subsection 629.03(C) – Permanent Pavement Markings** by adding the following after line 267:

19           **“(5) Thermoplastic Hot Spray Pavement Marking.**  
20

21           **(a) Equipment.**     Use equipment constructed for preparation  
22           and application of thermoplastic hot spray pavement marking.  
23

24                     Equipment shall provide continuous mixing and agitation of  
25           material.     Conveying parts of equipment shall be constructed to  
26           prevent accumulation and clogging.  
27

28                     Use applicator capable of containing minimum of 125  
29           pounds of molten material.  
30

31                     Provide kettle for melting and heating composition.     Equip  
32           kettle with automatic thermostat control device so that heating can  
33           be done by controlled heat transfer liquid rather than direct flame.  
34

35                     Equip and arrange applicator and kettle in accordance with  
36           National Fire Underwriters requirements.  
37

38                     Mixing and conveying parts, including the spray gun, shall  
39           maintain material at molten temperature.  
40

41                     Apply beads to entire surface of completed stripe by  
42           automatic bead dispenser attached to hot spray applicator.  
43

44                     Equip bead dispenser with automatic cutoff control  
45           synchronized with cutoff of thermoplastic material.  
46

47                     Use equipment that provides for varying spray widths to  
48           produce varying widths of traffic markings.  
49

50                     Use mobile and maneuverable applicator that is capable of  
51           following straight lines and making curves in true arcs.  
52

53           **(b) Application.**     Clean off dirt, debris, blaze, paint, tape, and  
54           grease.     Apply thermoplastic hot spray pavement marking only  
55           when pavement surface is dry.  
56

57                     Use equipment that can apply material in variable widths  
58           from 2 inches to 12 inches.     Apply material for full width of stripe  
59           in one application or pass.  
60

61                     On concrete pavements, on HMA pavements more than  
62           seven days old, and on HMA pavements paved within seven days  
63           containing less than 6 percent bituminous asphalt, pre-stripe  
64           application area with binder material, primer, or prime seal coat  
65           recommended by pavement marker manufacturer.

Line thickness, as viewed from lateral cross section, shall measure not less than 3/32 inch at edges, and not less than 1/8 inch in center.

Where required by the contract documents to apply new markings over existing markings, bond new line over old line so that no splitting or separation takes place during its useful life.

Provide finished lines with well-defined edges, free of waviness."

**(IV)** Amend **629.04 – Measurement** by revising lines 292 to 294 to read as follows:

**"629.04 Measurement.**

(A) The Engineer will measure thermoplastic and preformed pavement marking tape per linear foot in accordance with the contract documents. The longitudinal pavement markings will be measured per linear foot as a single stripe for the width specified in the contract and in the proposal.

The Engineer will measure the painted stripes that are twelve (12) inches wide or less as a single stripe. The Engineer will measure the painted stripes over twelve (12) inches wide as two (2) stripes. The Engineer will measure the double stripes that are twelve (12) inches or less in total width including the transverse space between the stripes as a single stripe.

The Engineer will measure the transverse markings by the linear foot or per lane according to the contract.

The Engineer will not measure temporary pavement markings including flexible delineator posts with reflector markers or Type I Barricades and temporary signs installed for the longitudinal guidance of public traffic over reconstructed areas, cold planed surfaces, newly paved surfaces or other unmarked or scarified areas for payment.

The Contractor shall consider the work required for the removal of pavement markings incidental to the various contract items, except as provided in the proposal or elsewhere in the contract. If the contract stipulates that the Engineer will make payment for the removal of pavement markings, the Engineer will measure the removal of pavement markings.

The Engineer will measure the longitudinal pavement markings by the linear foot according to the contract. Longitudinal gaps for skip striping will not be included in the measurement.

(B) The Engineer will measure the pavement markers per each for the types shown in the proposal.”

(IV) Amend **629.05 – Payment** by revising lines 296 to 330 to read as follows:

**“629.05 Payment.**

(A) The Engineer will pay for thermoplastic and preformed pavement marking tape at the contract price per linear foot according to the contract, complete in place, including primers.

The Engineer will pay for double four (4) inch striping with a four (4) inch space between stripes at the contract price per linear foot or on a lump sum basis according to the contract.

The Engineer will pay for pavement arrows (single and multiple heads), symbols, and words at the contract price per each according to the contract.

The contract unit price paid shall be full compensation for furnishing labors, materials, tools, equipment and incidentals and for doing the work involved in furnishing and installing pavement markings complete in place according to the contract.

The Engineer will not pay for the temporary pavement markings including flexible delineator posts with reflector markers or Type I Barricades and temporary signs installed for the longitudinal guidance of public traffic over reconstructed areas, cold planed surfaces, newly paved surfaces or other unmarked or scarified areas for payment if not shown in the proposal separately. The Engineer will consider them incidental to the various contract items.

The Engineer will compute the actual amount paid to the Contractor for force account work according to Subsection 109.06 – Force Account Provisions and Compensation.

If the contract specifies payment for removal of pavement markings under unit price pay items, the Engineer will pay for the accepted quantities at the contract unit prices bid. The prices shall be full compensation for removing such items according to the contract.

(B) The Engineer will pay for the various types of pavement markers at the contract price per each according to the contract, complete in place, including adhesives.

(C) The Engineer will pay for painted pavement striping at the contract price per linear foot according to the contract.

The Engineer will pay for pavement arrows (single or multiple arrow heads) at the contract price per each according to the contract.

The Engineer will pay for the following pay items when included in the proposal schedule:

| Pay Item  | Pay Unit    |
|---|-------------|
| Double 4-Inch Pavement Striping (Thermoplastic Extrusion) | Linear Foot |
| 6-Inch Pavement Striping (Thermoplastic Extrusion)        | Linear Foot |
| 12-Inch Pavement Striping (Thermoplastic Extrusion)       | Linear Foot |
| Pavement Arrow (Thermoplastic)                            | Each        |
| Type C Pavement Marker                                    | Each        |
| Type D Pavement Marker                                    | Each        |
| Yield Line (Thermoplastic)                                | Lane        |

**END OF SECTION 629**