SECTION 639 – ASPHALT CONCRETE CURB AND GUTTER

639.01 Description. This section describes constructing asphalt concrete curb and gutter.

Asphalt concrete curb and gutter are designated as follows:

(A) Type 6 - Asphalt Curb

(B) Type 7 - Asphalt Gutter

639.02 Materials.

Asphalt Concrete Pavement Mix No. V 401.02
Emulsified Asphalt 702.04
Aggregate for Untreated Base 703.06

For Type 7 – Asphalt Gutter, increase asphalt content of Mix No. V at least 0.5 percent above that used for asphalt concrete pavements.

Furnish pre-emergent and non-selective type, EPA approved weed killer for highway application, suitable for use under designed thickness of pavements. Ensure weed killer is free of solvents or other substances deleterious to pavement. Apply at highest dosage recommended by manufacturer. Submit product catalog cuts containing pertinent data and material safety data sheets for acceptance by Engineer before use.

639.03 Construction.

(A) General.

(1) Excavating. Excavate to required depth and compact subgrade to firm, even surface in accordance with Subsection 203.03(A)(4) - Subexcavation. Place and compact base course material in layers up to 6 inches in depth.

(2) Bed Course. Use aggregate for untreated base, as bed course material conforming to Subsection 703.06 - Aggregate for Untreated Base. Place bed course material a minimum of 4 inches in depth. Compact with three passes of lightweight mechanical tamper, roller, or vibratory system.
(3) **Backfilling.** After setting curb or gutter, fill remaining excavated areas with material acceptable to Engineer. Place and tamp material, acceptable to Engineer, in layers up to 6 inches in depth. Do not backfill until 24 hours after constructing joints.

(B) **Asphalt Curb.**

(1) **Surface Preparation.** Clean fresh laid asphalt surfaces before placing curb. Clean other existing surfaces with compressed air and dry surface.

Apply tack coat, in accordance with Section 407 – Tack Coat, at rate of 0.05 to 0.15 gallon per square yard of surface, and allow to cure before placing curb. Prevent spread of tack coat beyond area of curb.

(2) **Placing.** Construct asphalt curb with self-propelled automatic curb machine, or paver with curbing attachments that conform to the following:

(a) Machine weight compacts without riding above bed.

(b) Machine forms curbs of uniform texture, shape, and density.

(3) **Painting and Sealing.** Paint or seal curbs in accordance with manufacturer’s recommendations.

(C) **Asphalt Gutter.**

(1) **Weed Killer.** After completing grading and compacting operations, cover subgrade with weed killer in accordance with manufacturer's recommendations.

(2) **Prime Coat.** Apply and protect prime coat in accordance with Section 408 – Prime Coat.

(3) **Placing.** Place and compact asphalt material in accordance with Section 401 – Hot Mix Asphalt (HMA) Pavement, and as follows: For material placed on a two horizontal to one vertical (2H:1V) slope, compact mixture to relative density of not less than 80 percent of laboratory-compacted density using ASTM D 1561. Finish surface of 2H:1V slopes to be uniform in texture, without ruts, corrugations or other irregularities.

639.04 **Measurement.** Curb and gutter will be paid on a lump sum basis. Measurement for payment will not apply.
639.05 Payment. Engineer will pay for accepted curb and gutter on a contract lump sum basis. Payment will be full compensation for work prescribed in this section and contract documents.

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

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Pay Unit</th>
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</thead>
<tbody>
<tr>
<td>Curb, Type 6</td>
<td>Lump Sum</td>
</tr>
<tr>
<td>Gutter, Type 7</td>
<td>Lump Sum</td>
</tr>
</tbody>
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END OF SECTION 639