Section 202 of the Standard Specifications is hereby revised for this project as follows:

**DESCRIPTION**

This work consists of removing existing concrete guardrail in accordance with these specifications and in conformity with the lines and details shown on the plans or as approved by the Engineer. This work shall include saw cutting, removal of concrete, removal of reinforcing steel not designated in the plans to remain, straightening existing reinforcing steel to remain, sandblasting or hand cleaning reinforcing steel including epoxy repair, and disposal of removed materials and debris.

**CONSTRUCTION REQUIREMENTS**

At least 10 working days before beginning removal, the Contractor shall submit a Method Statement to the Engineer with details of the removal operations including the means, methods, sequence of removal, tools, and equipment to be used.

The Contractor’s Method Statement shall also include proposed methods used to:

1. Determine the locations and limits of deteriorating concrete
2. Prevent debris from falling to the ground or waterways below the structure
3. Protect the traveling public using the structure, and adjacent to the structure, from airborne debris generated by the removal operations.

All removal operations, methods, and equipment must be approved by the Engineer before the work begins.

The existing concrete shall be removed as shown on the plans or as directed by the Engineer. The Contractor shall saw cut along the removal limits prior to removal. Removal operations shall not occur prior to approval of the Engineer. The sawing of concrete shall be done to a true line, with a vertical face, unless otherwise specified. Feathered edges will not be acceptable. The depth of the saw cut shall be approximately ¾-inch.

The Contractor shall take all steps necessary to minimize spalling on the face of the existing concrete adjacent to the removal boundaries. Removals adjacent to the removal boundaries shall not use pneumatic hammers heavier than nominal 15-pound class. Hand tools such as hammers and chisels shall be used for removal of particles of loose, unbonded concrete. Exposed concrete surfaces within the removal limits shall be sandblasted to remove all final fractured or loose particles. Any damage caused by the Contractor to any portion of the structure not intended for repair shall be repaired in kind by the Contractor at the Contractor’s expense using means and methods approved by the Engineer with no allowance for contract time extension.

The Contractor shall take all steps necessary to prevent cutting or otherwise damaging reinforcing steel intended to remain in place. Any reinforcing bars damaged by the Contractor’s operation shall be repaired or replaced at the Contractor’s expense using means and methods approved by the Engineer with no allowance for contract time extension.

Following the removal of the concrete, all exposed non-epoxy reinforcing steel to remain in place shall be straightened as required and thoroughly cleaned to sound metal by sandblasting per Revision of Section 202 Sandblasting. Epoxy coated reinforcing steel, if present, shall not be sandblasted but shall be cleaned with hand tools. Epoxy coating on reinforcing steel, if damaged, shall be repainted with epoxy paint prior to placement of the concrete.

The Contractor is responsible for the disposal of all removed material and debris.
REMOVAL OF GUARDRAIL

METHOD OF MEASUREMENT

Removal of Guardrail will be measured by the actual quantity removed and accepted.

BASIS OF PAYMENT

The accepted quantities of Removal of Guardrail will be paid at the contract unit price.

Payment will be made under:

<table>
<thead>
<tr>
<th>Pay Item</th>
<th>Pay Unit</th>
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<tbody>
<tr>
<td>Removal of Guardrail Type 4</td>
<td>Linear Foot</td>
</tr>
<tr>
<td>Removal of Guardrail Type 7</td>
<td>Linear Foot</td>
</tr>
</tbody>
</table>

Payment for Removal of Guardrail will be full compensation for all labor, materials, tools, equipment, and incidentals required to complete the item including saw cutting, removal of concrete to the required depth, removal of reinforcing steel not designated in the plans to remain, straightening existing reinforcing steel to remain, sandblasting or hand cleaning reinforcing steel including epoxy repair, and disposal of removed materials and debris.

INSTRUCTIONS TO DESIGNERS (delete instructions and symbols from final draft):

Use this project special provision to remove Guardrail Type 4 or Guardrail Type 7 from structures (typically at the median).

Include Revision of Section 202 Sandblasting Reinforcing Steel in specification package.

REVISION OF SECTION  202 REMOVAL OF GUARDRAIL

<table>
<thead>
<tr>
<th>DATE</th>
<th>AUTHOR</th>
<th>DESCRIPTION OF CHANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/14/19</td>
<td>BPM Cons.</td>
<td>Initial Website Issue</td>
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