**FULL-DEPTH DECK REPAIR**

**DESIGNER NOTES**

Concrete overlays are the current preferred method to overlay a bridge. Recommended areas require a minimum cure time of 7 days before placing overlay. The plan quantities for concrete deck patches may be used to determine the needed for placing overlay. Provide an average overlay thickness on the plans. The average overlay thickness is based on the theoretical average overlay thickness plus or minus to account for variations in the deck surface. Quantities are based on the average overlay thickness.

**TOTAL ESTIMATED QUANTITIES**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Units</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PREPARATION DECKS TYPE 1</strong></td>
<td>ST</td>
<td>509.0301</td>
</tr>
<tr>
<td><strong>PREPARATION DECKS TYPE 2</strong></td>
<td>ST</td>
<td>509.0302</td>
</tr>
<tr>
<td><strong>CONCRETE MASONRY DECK REPAIR</strong></td>
<td>CY</td>
<td>509.2503</td>
</tr>
<tr>
<td><strong>ASPHALTIC OVERLAY</strong></td>
<td>TON</td>
<td>509.2504</td>
</tr>
</tbody>
</table>
| **CONCRETE MASONRY DECK REPAIR** | ST | 509.2503 *
| **ASPHALTIC OVERLAY** | ST | 509.2504 *
| **TOTAL** | | 509.2000 |

**NOTES**

- Drawings shall not be scaled.
- Dimensions shown are based on the original structure plans.
- Areas of preparation decks type 1 shall be defined by a saw cut.
- Preparation decks type 1, preparation decks type 2, and full-depth deck repair areas are based on the plans and as determined by the engineer. Joints, patches, and full-depth deck repairs shall be filled with concrete masonry deck repair.
- Any excavation required to complete the overlay or joint repair at the abutments to be considered incidental to the bid item "asphaltic overlay".
- The plan quantity for the bid item "asphaltic overlay" is based on the average overlay thickness.
- Profile grade line shall be determined in the field based on a minimum overlay thickness of 2" placed above the deck surface. Expected average overlay thickness is 2" or as shown on plans. If expected average overlay thickness is exceeded by more than 2", contact the structural design section.

**DESIGN DATA**

- **LIVE LOAD**
  - Operating temperature: 0°F to 100°F
  - Material properties: concrete masonry - deck patching Fc = 4000 psi
- **POLYMER MODIFIED ASPHALTIC OVERLAY**
  - Material properties: polymer modified asphaltic material

**ASPHALTIC OVERLAY**

- **LIVE LOAD**
  - Operating temperature: 0°F to 100°F
  - Operating standard vehicle (WIS-SPV) = 90 kips

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**POLYMER MODIFIED ASPHALTIC AND ASPHALTIC OVERLAYS**

**BUREAU OF STRUCTURES**

**INVENTORY RATING:** HS-___

**LIVE LOAD:**

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