**Design Data**

**Live Load**
- Minimum Standard Live Load 4000 lbs
- Maximum Standard Live Load: 7000 lbs

**Material Properties**
- Concrete Masonry Overlay Decks f'c = 4,000 P.S.I.

**Notes**
- Dimensions shall not be scaled.
- Material properties are based on the original structure plans.
- Protective surface treatment shall be applied to the entire top surface of the new concrete overlay.
- Sealant for construction joints shall be applied per Section 502.3.13.1 of the Standard Specifications. Cost incidental to the bid item "Concrete Masonry Overlay Decks".
- A minimum of 1 inch of concrete shall be removed from the entire bridge deck during the bid item "Cleaning Decks".
- The average overlay thickness is based on the minimum overlay thickness plus 1/2 inch to account for variations in the deck surface.
- 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. Preparation and full-depth deck repairs shall be filled with "Concrete Masonry Overlay Decks".
- Preparation decks type 1 and 2, and full-depth deck repair areas shall not be included in the bid item "Concrete Masonry Overlay Decks".
- Concrete overlay construction is based on the minimum overlay thickness plus 1/2 inch to account for variations in the deck surface.
- Quantities are based on the average thickness.
- Provide an average overlay thickness on the plans. The average overlay thickness is the minimum overlay thickness plus 1/2 inch to account for variations in the deck surface.
- Changes in cross-slope increase the average overlay thickness. Quantities are based on the average overlay thickness.
- **Design Notes**
  - Plan view appearance to all overlay methods and deck repairs without overlays.
  - For cross sections not in super-elevation, the preferred minimum slope is 0.5%.
  - Provide a profile grade line on the plans. The profile grade line is the minimum overlay thickness plus 1/2 inch to account for variations in the deck surface.
  - Use the minimum slope as determined in the field. The average overlay thickness is based on the average thickness.
  - COST INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

**Total Estimated Quantities**

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<tr>
<th>Item Number</th>
<th>Description</th>
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<td>509.2500</td>
<td>Cleaning Decks</td>
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<td>Full-depth Deck Repair</td>
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<td>506.5000</td>
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**Possible Additional Bid Items**

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<td>Cleaning Decks to Reapply Concrete Masonry Overlay</td>
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<td>506.5002</td>
<td>Removing Concrete Masonry Deck Overlay Structures</td>
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**Concrete Overlay**

Approved: Bill Oliva

Date: 7-18

Standard 40.31