### SUDAS Revision Submittal Form

<table>
<thead>
<tr>
<th>Status Date:</th>
<th>As of 5/7/2021</th>
<th>Topic:</th>
<th>Concrete boxouts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual:</td>
<td>Specifications</td>
<td>Manual Location:</td>
<td>Figures 7010.103 and 7020.201</td>
</tr>
</tbody>
</table>

**Requested Revision:**  *See attached figures*

**Reason for Revision:** Added requirement for minimum amount of concrete outside of the casting when it is not centered. Added use of ‘B’ joint for post PCC construction cut and extracted boxouts.

**Comments:** None.

**District:**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>2/24/2021 Webinar</th>
</tr>
</thead>
</table>

**Comments:** None.

**District:**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>April 2021 Webinars</th>
</tr>
</thead>
</table>

**Comments:** None.

**Action:**

- [ ] Deferred
- [ ] Not Approved
- [x] Approved

**Final District Action Summary:** All 6 districts approved.

**Board of Directors Action:** Approved.
Construct boxout with Class C concrete or match pavement class. Minimum 2 inches clear on reinforcement. Minimum 12 inches of concrete between outside of casting and nearest joint. Center casting within boxout area if possible.

1. 'KT-1', 'KT-2', 'BT-1', or 'BT-2' joint if three-piece floating casting (SW 601 Type B and D or SW-602 Type F) is used. 'E' joint if two-piece fixed casting (SW 601 Type A and C or SW-602 Type F) is used.

2. 4 foot 8 inch (typ.) #4 bar. Place at mid-slab.

3. #4 hoops (variable length). Place at mid-slab.

4. No boxout is required for three-piece floating castings (SW 601 Type B and D or SW-602 Type F). If a boxout is used with a three-piece casting, construct as detailed in Section A-A for three-piece floating casting.

5. When circular boxout is cut and extracted post PCC construction, a 'B' joint may be substituted for the 'E' joint, if approved.

Address post construction circular boxout replacement. Minimum 2 inches clear on reinforcement. Minimum 12 inches of concrete between outside of casting and nearest joint. Center casting within boxout area if possible.

1. 'KT-1', 'KT-2', 'BT-1', or 'BT-2' joint if three-piece floating casting (SW 601 Type B and D or SW-602 Type F) is used. 'E' joint if two-piece fixed casting (SW 601 Type A and C or SW-602 Type F) is used.

2. 4 foot 8 inch (typ.) #4 bar. Place at mid-slab.

3. #4 hoops (variable length). Place at mid-slab.

4. No boxout is required for three-piece floating castings (SW 601 Type B and D or SW-602 Type F). If a boxout is used with a three-piece casting, construct as detailed in Section A-A for three-piece floating casting.

5. When circular boxout is cut and extracted post PCC construction, a 'B' joint may be substituted for the 'E' joint, if approved.
Construct boxout with Class C concrete or match pavement class. Minimum 2 inches clear on reinforcement. Minimum 12 inches of concrete between outside of casting and nearest joint. Center casting within boxout area if possible.

1. **4 foot 8 inch (typ.) #4 bar.** Place at mid-slab.

2. If boxout is constructed prior to placement of HMA overlay or final lift of HMA pavement, boxout may be constructed low, with a 'B' joint in place of the 'E' joint, and then final lift or overlay placed.

3. Apply tack coat.

4. **#4 hoops (variable length).** Place at mid-slab.

---

**SECTION A-A**

*For three-piece floating casting*

- HMA Overlay
- Existing PCC
- Adjustment Ring
- 'BT-3' or 'BT-5' Joint
- 'BT-3' or Pavement
- 'BT-6' Joint

---

**SECTION A-A**

*For two-piece fixed casting*

- HMA Overlay
- Existing PCC Pavement
- 'B' or 'E' Joint
- Adjustment Ring
- 6"