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NOTES:
1. The dimensions of the lifting slots are subject to adjustment as necessary to accommodate handling equipment.
2. Maximum barrier taper rate flares for lane closures for legal posted speed are shown in Table No. 1.
3. For additional connection details see Standard Drawing E 801-TCCB-03.
4. Where site conditions prohibit the use of these flare rates then flare rates may range from 10:1 to 6:1.

TABLE NO. 1

<table>
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<tr>
<th>Construction Zone Speed</th>
<th>Taper Flare Rate</th>
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<tr>
<td>55 mph</td>
<td>16:1</td>
</tr>
<tr>
<td>50 mph</td>
<td>14:1</td>
</tr>
<tr>
<td>45 mph</td>
<td>12:1</td>
</tr>
<tr>
<td>40 mph</td>
<td>10:1</td>
</tr>
<tr>
<td>≤ 35 mph</td>
<td>10:1</td>
</tr>
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Notes:
- 3/4" Ø Threaded Inserts
- 3/4" Ø Smooth Bar Hooks
- 1/2" Draft (typ.)
- 3 3/4"
- Optional End Treatment see Detail "A"
- 1/2" Bevel
- 1'-0" Vertical Lap (typ.)
- 3/4" Ø Threaded Inserts
- Typical End Treatment see Detail "B"

DIMENSIONS

3'-0 1/2" 8' 2'-7" 8' 3'-0 1/2"

3/4" Ø x 11'-8"

SMOOTH BAR HOOKS

INdIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER

DIMENSIONS

SEPTEMBER 2019

STANDARD DRAWING NO.  E 801-TCCB-02

E 801-TCCB-03.
Section A-A shows reinforcement with welded wire fabric. The WWF may be bent to the shape of the wall.

Hex nut may be tack welded to bottom spacer to facilitate installation and removal. Bolts shall be torqued only to tight condition. Clearance between the spacer and the ends of the barrier shall allow angular deflection at the joints to allow flare rate 11:1 or flatter.

Top spacer TS 4" x 2" x 5/16" x 10" long.

Bottom spacer TS 4" x 2" x 5/16" x 14" long.

Where necessary to meet short radius curving alignment, the shorter top spacer (10") may be substituted for the standard bottom spacer (16").

For additional connection details see Standard Drawing E 801-TCCB-02.

Where very short radius curving alignment is encountered, spacers may be TS 3" x 2" x 1/4" x the appropriate length as shown above.

In lieu of the connection detail shown, the J-J Hook temporary barrier connection of Easi-Set Industries as described in FHWA acceptance letter B-52 of March 26, 1999 may be used.
DOUBLE TAPER END SECTION ASSEMBLY
(Showing location of inserts and bar hooks)

NOTES:
1. For connection details between Units A and B, see Standard Drawing E 801-TCCB-03.
2. Extreme ends of the double taper end section assembly require a 1 1/4" Ø bolt x 2'-3 1/2" (4" min. thread, hex head and hex nut) for connecting to adjacent temporary concrete barriers.
NOTES:

1. All steel shall be ASTM A-36 hot rolled unless otherwise noted.

2. J-J Hooks are a product of Easi-Set Worldwide. Hooks shall be cast into the barrier in accordance with the manufacturer's recommendations.

3. The drop-in anchor and bolt shall be tightened to the anchor manufacturer's specifications. The anchor shall have a minimum ultimate shear capacity of 26.4 kips.

4. Bent plate anchor bracket shall be attached to a concrete surface using one of the following anchor systems. Minimum embedment shall be in accordance with the manufacturer's recommendations, but not less than 4 1/2 in.
   - 1-in. threaded rod, grade 55 minimum, with washer and nut. Rod shall be installed using an approved epoxy chemical anchor system with a minimum ultimate shear capacity of 21.2 kips: or
   - 1-in. diameter wedge anchor; or
   - 1-in. nominal diameter drop-in anchor with 1-in. diameter, grade 5 hex bolt.

5. When concrete will remain in place after anchoring is removed, the threaded rod anchoring system shall be used. The rod shall be completely removed, the hole shall be blown out to remove any moisture or debris, and the hole completely filled using the same epoxy that was used for anchoring the rod.

6. A single bent plate anchor bracket may be used instead of the two-plate detail as shown.
NOTES:

1. All steel shall be ASTM A-36 hot rolled unless otherwise noted.

2. J-J Hooks are a product of Easi-Set Worldwide. Hooks shall be cast into the barrier in accordance with the manufacturer’s recommendations.

3. The bolt shall be installed snug tight in the cast-in ferrule loop insert. The insert shall have a minimum ultimate shear capacity of 12.1 kips.

4. Bent plate anchor bracket shall be attached to a concrete surface using one of the following anchor systems. Minimum embedment shall be in accordance with the manufacturer’s recommendations, but not less than 4 1/2 in.
   - 1-in. threaded rod, grade 55 minimum, with washer and nut. Rod shall be installed using an approved epoxy chemical anchor system with a minimum ultimate shear capacity of 21.2 kips.
   - 1-in. diameter wedge anchor; or
   - 1-in. nominal diameter drop-in anchor with 1-in. diameter, grade 5 hex bolt.

5. When concrete will remain in place after anchoring is removed, the threaded rod anchoring system shall be used. The rod shall be completely removed, the hole shall be blown out to remove any moisture or debris, and the hole completely filled using the same epoxy that was used for anchoring the rod.

6. See E 801-TCCB-05 for bent plate anchor details, top plate washer details, and additional notes.