INDEX

<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>SUBJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Railing, PF-1 and PS-1 Index and General Notes</td>
</tr>
<tr>
<td>2</td>
<td>Railing, PF-1 Elevation, Section, and Rail End Detail</td>
</tr>
<tr>
<td>3</td>
<td>Railing, PS-1 Elevation, Section, and Rail End Detail</td>
</tr>
<tr>
<td>4</td>
<td>Railing, PF-1 and PS-1, Steel Tube and Rail Splice Details</td>
</tr>
<tr>
<td>5</td>
<td>Railing, PF-1 and PS-1 Base Plate and Reinforcing Bar Bending Details</td>
</tr>
</tbody>
</table>

GENERAL NOTES:
1. Intermediate railing splices shall be placed every 20 ft.
2. All chamfered edges shall be 3/4 in.
3. All reinforcing bars designated E shall be epoxy coated.
**ELEVATION**

- Rail Post (typ.)
- Rail Splice Point
- Rail Splice Point

**ELEVATION, SECTION, AND RAIL END DETAIL**

**RAIL END DETAILS**

1. PF-1 railing is acceptable as MASH Test Level 3.
3. 3/4 in. diameter x 11 1/2 in. round-head bolt in 7/8 in. diameter hole. Hole shall be slotted as required for expansion.
4. 5/8 in. diameter x 10 1/2 in. round-head bolt in 3/4 in. hole. Hole shall be slotted as required for expansion.

**NOTES:**

**RAILING, PF-1**

**ELEVATION, SECTION, AND RAIL END DETAIL**

**SEPTEMBER 2019**

**STANDARD DRAWING NO.** E 706-BRPP-02

**QUANTITIES FOR ONE RUNNINC FOOT OF RAILING**

- Concrete, class C: 1.66 CFT
- Reinforcing bars: 17.0 LBS

* Wt. of reinforcing bars doesn't include allowance for splices in longitudinal bars
INDIANA DEPARTMENT OF TRANSPORTATION

RAILING, PS-1
ELEVATION, SECTION, AND RAIL END DETAIL
SEPTEMBER 2019

STANDARD DRAWING NO.  E 706-BRPP-03

NOTES:
1. PS-1 railing is acceptable as MASH Test Level 3.
3. 3/4 in. diameter x 11 1/2 in. round-head bolt in 7/8 in. diameter hole. Hole shall be slotted as required for expansion.
4. 5/8 in. diameter x 10 1/2 in. round-head bolt in 3/4 in. diameter hole. Hole shall be slotted as required for expansion.

QUANTITIES FOR ONE RUNNING FOOT OF RAILING

Concrete, class C* 2.30 CFT
Reinforcing bars** 19.6 LBS

* Concrete column based on an assumed 3'-3" total parapet height. Actual quantity will vary based on plan parapet height.
** Wt. of reinforcing bars doesn't include allowance for splices in longitudinal bars
INDIANA DEPARTMENT OF TRANSPORTATION

RAILING, PF-1 AND PS-1
STEEL TUBE AND RAIL SPLICE DETAILS

SEPTEMBER 2019

STANDARD DRAWING NO. E 706-BRPP-04

INDIANA DEPARTMENT OF TRANSPORTATION
BASE PLATE DETAIL

NOTES:

1. See Standard Drawing E 703-BRST-01 for reinforcing-bar bending details and notes.