## INDEX

<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>SUBJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Railing, TF-2 Index</td>
</tr>
<tr>
<td>2</td>
<td>Railing, TF-2 Elevation, Section, and Rail End Detail</td>
</tr>
<tr>
<td>3</td>
<td>Railing, TF-2 Steel Tube and Rail Splice Details</td>
</tr>
<tr>
<td>4</td>
<td>Railing, TF-2 Base Plate and Bar Bend Details</td>
</tr>
</tbody>
</table>
Pay Limits for Steel Railing, TF-2
Pay Limits for Concrete Railing, TF-2

NOTES:

1. Spacing of joints in tube steel: 20 ft. min. to 40 ft. max.
3. 7/8 in. diameter x 1 ft. 6 in. round-head bolt in 1 in. diameter hole. Hole is to be slotted as required for expansion.
4. Spacing of rail posts: 4 ft. 0 in. min. to 7 ft. 6 in. max.
5. Distance from centerline of rail splice to centerline of rail post: 18 in. min to 30 in. max.
8. TF-2 railing is acceptable as MASH Test Level 5.

INDIANA DEPARTMENT OF TRANSPORTATION
RAILING, TF-2
ELEVATION, SECTION, AND RAIL END DETAIL
SEPTEMBER 2019
STANDARD DRAWING NO. E 706-BRTF-02

QUANTITIES FOR ONE RUNNING FOOT OF RAILING
Concrete, class C 2.92 CFT
Reinforcing bars* 11.3 LBS

* Wt. of reinforcing bars doesn't include allowance for splices in longitudinal bars.
NOTES:

1. See Standard Drawing E 703-BRST-01 for reinforcing-bar bending details and notes.
2. All chamfered edges shall be 3/4 in.
3. 1 3/8 in. diameter holes for 1 1/8 in. anchor bolts.
4. All reinforcing bars designated E shall be epoxy coated.
5. Mill to bear flush with base plate prior to welding to ensure that the final position of the post is vertical.