**ELEVATION**

**NOTE**
A post is shown to be an integral part of the rail, see standard no. BMR8.

**PLATE WASHER**

**RAIL SPLICE DETAILS**

**GENERAL NOTES**

1. **Material**
   - Rail, post, base, and rail splice will be galvanized steel in accordance with the requirements of the general notes. The following specifications listed in the table below are not to be used.

2. **Galvanizing**
   - Steel will be galvanized in accordance with the requirements of the general notes. The following specifications listed in the table below are not to be used.

3. **Welds**
   - Welds shall be made to the gusset plate and post in accordance with the requirements of the general notes. The following specifications listed in the table below are not to be used.

4. **Industry Standards**
   - Industry standards shall be followed in accordance with the requirements of the general notes. The following specifications listed in the table below are not to be used.

**TABLE 1**

<table>
<thead>
<tr>
<th>Rail Type</th>
<th>Rail Head</th>
<th>Rail Foot</th>
<th>Rail Splice</th>
<th>Rail Flange</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYP.</td>
<td>6</td>
<td>8</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

**DETAILS OF POST**

**SIDE ELEVATION**

**DETAILS OF POST**

**SEC. THRU RAIL**

**POST ATTACHMENT DETAIL**

**POST BASE DETAILS**

**ANCHOR PLATE DETAILS**

**NOTES**

- **Steel Rail**
  - Steel rail shall be hot-dipped galvanized steel in accordance with the requirements of the general notes. The following specifications listed in the table below are not to be used.

- **Galvanizing**
  - Steel rail shall be hot-dipped galvanized steel in accordance with the requirements of the general notes. The following specifications listed in the table below are not to be used.

- **Welds**
  - Welds shall be made to the gusset plate and post in accordance with the requirements of the general notes. The following specifications listed in the table below are not to be used.

- **Industry Standards**
  - Industry standards shall be followed in accordance with the requirements of the general notes. The following specifications listed in the table below are not to be used.

**PROJECT NO.**

**COUNTY**

**STATION**

**SHEETS**

**TOTAL**

**DEPARTMENT OF TRANSPORTATION**

**32" ALASKA RAIL**
NOTES

CONCRETE CONCRETE INSERT

EACH STRUCTURAL CONCRETE INSERT ASSEMBLY SHALL CONSIST OF THE FOLLOWING COMPONENTS:

A. TIGHTS SHALL BE MADE OF STEEL HEATING, WITH 5 INCH HAIR AND SHOULD HAVE A MINIMUM LOR OF THREADS OF 12

B. 3/16" x 3/4" STEEL RAIL INSERT: THE RAIL INSERT SHALL CONFORM TO THE REQUIREMENTS OF A 4 1/8" RAIL INSERT AND ADDER SHALL BE PROPERLY ATTACHED TO THE CONNECTING STRUCTURAL STEEL RAIL INSERT AND ADDER MAY BE USED AS AN ALTERNATIVE TO THE 3/16" x 3/4" STEEL RAIL INSERT. THE RAIL INSERT SHALL CONFORM TO THE REQUIREMENTS OF A 4 1/8" RAIL INSERT. THE USE OF THIS ALTERNATIVE SHALL BE APPROVED BY THE ENGINEER.

C. FOR SAFETY, TRAFFIC ON THE STRUCTURAL CONCRETE INSERT DETAIL IS THE MINIMUM ALLOWABLE SIZE AND SHALL HAVE A MINIMUM UTILITY STRENGTH OF 7000 P.S.I. AS AN OPTION, A 3/16" x 3/4" STEEL RAIL INSERT WITH A MINIMUM UTILITY STRENGTH OF 7000 P.S.I. IS ACCEPTABLE.

NOTES

METAL RAIL TO END POST CONNECTION

EACH METAL RAIL TO END POST CONNECTION SHALL CONSIST OF THE FOLLOWING COMPONENTS:

A. 3/16" x 3/4" STRUCTURAL CONCRETE INSERT: THE METAL RAIL INSERT SHALL CONFORM TO THE REQUIREMENTS OF A 4 1/8" RAIL INSERT AND ADDER SHALL BE PROPERLY ATTACHED.

B. 3/16" x 3/4" STRUCTURAL CONCRETE INSERT: THE METAL RAIL INSERT SHALL CONFORM TO THE REQUIREMENTS OF A 4 1/8" RAIL INSERT AND ADDER SHALL BE PROPERLY ATTACHED.

C. 3/16" x 3/4" STRUCTURAL CONCRETE INSERT: THE METAL RAIL INSERT SHALL CONFORM TO THE REQUIREMENTS OF A 4 1/8" RAIL INSERT AND ADDER SHALL BE PROPERLY ATTACHED.

THE 3/16" x 3/4" STRUCTURAL CONCRETE INSERTS WITH BOLTS SHALL BE ASSEMBLED IN THE WORKSHOP.

THE PROJECT NO. - COUNTY

STATION:

Sheets 2 of 2

DEPARTMENT OF TRANSPORTATION

END OF RAIL DETAILS

FOR 32" RAILING 5'