**NOTES**

1. PIPE RAILING AND PIPE RAILING SPLICES SHALL BE BENT TO THE HORIZONTAL CURVE WHERE THE RADIUS OF CURVATURE IS LESS THAN 200'. THESE ITEMS MAY BE HEATED TO NOT MORE THAN 400°F FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING TO HORIZONTAL CURVATURE.

2. SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIAL SPECIFICATIONS SHALL BE PROVIDED IN THE SHOP DRAWINGS FOR ALL COMPONENTS.

3. CUTTING SHALL BE DONE BY DAKING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.

4. WELDING OF ALUMINUM SHALL CONFORM TO STD. SPEC. SECTION 0-28.14(3).

5. AFTER FABRICATION, POSTS SHALL BE HEAT TREATED IN ACCORDANCE WITH SECTION 8.5 OF THE ASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS DATED 2001.

6. ALL ALUMINUM PARTS SHALL BE GIVEN A CLEAR OR BRONZE ANODIC COATING OF AT LEAST 0.0006" THICK AND SEALED TO MEET THE REQUIREMENTS OF ASTM B 580 WITH A UNIFORM FINISH.

7. PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO INSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.

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**ELEVATION**

Baluster and Guardrail Section
Attachment Details Not Shown.

Provide expansion rail splice at traffic barrier expansion joints. Rail splice joints are not required at traffic barrier dummy joints.

Locate on opposite side of traffic drive pins shall be driven flush with the outside face of the railing.

NOTE:
"E" dimension shall be equal to opening of traffic barrier expansion joints.

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**GENERAL DETAIL**

Pipe railing and pipe railing splines shall be bent to the horizontal curve where the radius of curvature is less than 200'. These items may be heated to not more than 400°F for a period not to exceed 30 minutes to facilitate forming or bending to horizontal curvature.

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**STANDARD RAILINGS**