**GENERAL NOTES**

Metal rail shall be galvanized steel in accordance with the requirements of the General Notes and the following specifications. Aluminum rail shall not be an option.

Material and galvanizing are to conform to the following specifications:

- **Post Base Plates**: Galvanized steel
- **Rail Splice Plates**: Hot-dip galvanized steel in accordance with AASHTO M111.

The cut ends of galvanized steel railings after grinding smooth shall be given two coats of primer. Additional work meeting the requirements of Federal Specification QQ-P-356c type I or I-I of Federal specifications thereafter.

**Rail Splice Tags**: Grade A - Galvanized to assure miss.  "STD.

**Threaded Studs**: Steel galvanized and removed from rails. Steel threads in accordance with ASTM A108.

**Plates & Washers**: AASHTO M270 Grade 36 structural steel material and galvanizing are to conform to the following specifications.

- **Railings**: ASTM A500 Grade B - Galvanized to AASHTO M111.
- **Metal Rail**: ASTM A563 DH, and washers to ASTM F436, Type 1. Anchor bolts, nuts and washers shall be galvanized high strength anchor bolts shall conform to ASTM A194 Grade 2H.

**Graffiti**: See "RAIL POST SPACINGS AND END OF RAIL DETAILS" SHEET.

**NOTES**

- Metal rail shall be continuous from end post to end of post. Each joint in metal length shall be spliced as specified. Panel lengths of rail shall be attached to a minimum of three posts.
- Metal rail shall be set normal to curb grade.
- Ground construction anchors which are to be used on metal rails shall be galvanized after forming to the required curvature. The ground construction anchors shall be located at each one of every five posts to allow for expansion of the rail.
- Shims shall be used as necessary for post alignment.
- **Plan**: The rail sections shall be attached to the posts by two threaded 1/4-20 welded studs, plate washers, locknuts, and nuts.

**METAL RAIL**

- **Post Base**: Standard structural steel
- **Anchor Plates**: AASHTO M270 Grade 36 structural steel material and galvanizing are to conform to the following specifications.

**SECTION THRU RAIL**

**POST SPACINGS AND END OF RAIL DETAILS**

**PLATE WASHER**

**RAIL SPICE DETAILS**

- **Splice**: Clean all the edges prior to galvanizing to assure fit. 1" X 1/2" for splice not at expansion joint; see "RAIL POST SPACINGS AND END OF RAIL DETAILS" SHEET.
- **Joint**: 32" Alaska Rail, see the standard specifications.

**POST DETAIL**

**ANCHOR PLATE DETAILS**

**ELEVATION**

**PLAN**

**SIDE ELEVATION**

**DETAILS OF POST**

**POST ATTACHMENT DETAIL**

**PROJECT NO.**

**STATION:**

**COUNTY:**

**SHEETS**

**TOTAL:**

**DEPARTMENT OF TRANSPORTATION**

**RALEIGH**

**S-**

**32" ALASKA RAIL STANDARD**

**TOTAL**

**DATE:**

**SHEET 1 OF 2**

**REV.**

**DRAWN BY:**

**CHECKED BY:**

**ASSEMBLED BY:**

**CHECKED BY:**