ELEVATION

NOTE:

1. The splice shall be made flush with the end of the post.
2. Splices shall be made at the midpoint of the post.
3. Splices shall be made at the end of the rail.
4. Splices shall be made at the midpoint of the rail.

GENERAL NOTES

1. The rail shall be galvanized steel in accordance with the requirements of the following specifications.
2. The rail shall be galvanized steel in accordance with the requirements of the following specifications.
3. The rail shall be galvanized steel in accordance with the requirements of the following specifications.
4. The rail shall be galvanized steel in accordance with the requirements of the following specifications.

RAIL SPICE DETAILS

1. The splice shall be made flush with the end of the post.
2. Splices shall be made at the midpoint of the post.
3. Splices shall be made at the end of the rail.
4. Splices shall be made at the midpoint of the rail.

ANCHOR PLATE DETAILS

1. The anchor plate shall be made flush with the end of the post.
2. Anchor plates shall be made at the midpoint of the post.
3. Anchor plates shall be made at the end of the rail.
4. Anchor plates shall be made at the midpoint of the rail.

POST BASE DETAILS

1. The post base shall be made flush with the end of the post.
2. Post bases shall be made at the midpoint of the post.
3. Post bases shall be made at the end of the rail.
4. Post bases shall be made at the midpoint of the rail.

SECTION THRU RAIL

1. The section shall be made flush with the end of the post.
2. Sections shall be made at the midpoint of the post.
3. Sections shall be made at the end of the rail.
4. Sections shall be made at the midpoint of the rail.

NOTES

1. Metal, rail, shall be galvanized steel in accordance with the requirements of the following specifications.
2. Metal, rail, shall be galvanized steel in accordance with the requirements of the following specifications.
3. Metal, rail, shall be galvanized steel in accordance with the requirements of the following specifications.
4. Metal, rail, shall be galvanized steel in accordance with the requirements of the following specifications.
NOTES

ARCHITECTURAL CONCRETE

Each structural concrete inset assembly shall consist of the following components:

A. Female shall be made from steel, meeting the requirements of ASTM A 150, Grade 50, and shall have a minimum length of threads of 3/4".

B. 1/2" x 3/16" x 6" and/or 3/16" x 3/8" x 6" bolts shall conform to the requirements of ASTM A 307. A572 and should meet the requirements of the connecting system. Stainless steel bolts and anchor may be used as an alternate for the 1/2" x 3/16" galvanized bolt and anchor. The female shall conform to the mechanical requirements of ASTM A193. The use of this alternate is optional.

C. Steel plates shown in the structural concrete inset detail is the minimum allowable size and shall have a minimum tensile strength of 41 ksi. A 1/4" x 1/2" steel plate with a minimum tensile strength of 41 ksi is acceptable.

METAL RAIL TO END POST CONNECTION

Each metal rail to end post connection shall consist of the following components:

1/4" metal bracket plate and/or metal rail inset tube shall conform to ASTM A 572, Grade 50, and shall be galvanized after fabrication to ASTM A 525.

3/4" structural concrete insets shall have a working load of shear capacity of 4000 lbs. The female shall be engaged in a 1/2" x 3/16" bolt with a 2" washer in place. The 3/4" x 3/16" shall have a 2" washer.

The 3/4" structural concrete insets with bolts shall be assembled in the shop.

The cost of the 3/4" structural concrete insets, the 1/4" bracket plates and the rail insets tubes complete shall be charged in the hazardous pay system.

The contractor at this option may use an adhesive bonding system in lieu of the structural concrete insets provided on the end post, as the adhesive bonding system is seen. The 3/4" structural concrete insets shall be replaced with 1/2" x 3/16" bolts and 2" washers. All specifications shall apply to the 3/4" x 3/16" metal rail inset tube. The design of the adhesive bonding system is not required.

PLAN OF RAIL POST SPACINGS.

ELEVATION

TOP RAIL SECTION

THE METAL RAIL INSET TUBE SHALL BE FABRICATED FROM STEEL.

SECTION OF LOWER RAILS

PROJECT NO.

STATION:

DEPARTMENT OF TRANSPORTATION

STANDARD

RAIL POST SPACINGS

AND

END OF RAIL DETAILS

FOR APPROVAL RAIL

Sheet 2 of 2

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