NOTES

STRUCTURAL CONCRETE INSERTS

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

A. All structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

B. All structural concrete inserts shall be attached at the top and bottom to the structural steel with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

C. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

METAL RAIL TO END POST CONNECTION

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

A. 1 1/2" steel structural plate shall be attached to the metal rail with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

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

1. Metal rail shall be attached to the end post with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

2. All structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

3. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

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

   a. Metal rail shall be attached to the end post with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

   b. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

   c. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

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

      i. Metal rail shall be attached to the end post with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

      ii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

      iii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

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

      i. Metal rail shall be attached to the end post with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

      ii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

      iii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

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

      i. Metal rail shall be attached to the end post with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

      ii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

      iii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

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

      i. Metal rail shall be attached to the end post with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

      ii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

      iii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

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

      i. Metal rail shall be attached to the end post with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

      ii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

      iii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

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

      i. Metal rail shall be attached to the end post with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

      ii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

      iii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

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

      i. Metal rail shall be attached to the end post with a minimum of four 1/2" x 1 1/2" x 6" galvanized steel lag bolts and washers. The lag bolts shall be centered on the structure at a distance of 3/4" from the edge of the structure.

      ii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".

      iii. The structural concrete inserts shall be fabricated from ASTM C33 grade 300 and shall have a minimum length of 12".