1. MATERIALS: Use component materials as specified in the Table of Chain Link Fence Components. Use either Class N5 concrete as specified in Specification Section 561 or a dry packaged material meeting the requirements of a concrete under ASTM C 392. Proportion materials by volume and/or weight.

2. FOUNDATION MOUNTS: Set Line Posts in Concrete Foundations as shown or alternatively set with the following methods:
   (a) In accordance with project-specific details described in the contract documents.
   (b) In accordance with ASTM F567 Sections 5.4 through 5.10 as approved by the Engineer.
   (c) In accordance with the Anchor Plate Detail shown on Sheet 3.

3. POST USAGE: Use post types (End, Line, Corner, and Pull Posts) as specified in the plans, including the typical adjacent brace assemblies shown. Nominal post lengths are typically 7'-1", where the post height extends 3" above the chain link height.

4. COLD GALVANIZING: Cold galvanize all Posts (pipes), Post Caps, Brace Rails, Tension Bars, and Bands with the Federal Standard 595 color Semi-Gloss Black FS27038 - Knocked Seige (Top and Bottom).

5. POST SET TOLERANCE: Set Post in concrete with the Post 3" ± 1" from the center of the installed Concrete Foundation.

6. MESH ORIENTATION: Place mesh on the side of the fence nearest the roadway, between the roadway and the brace rails.

7. GENERAL FENCE INSTALLATION/TOLERANCE: Install posts plumb, within a tolerance of ±1' from nominal 3' of post. Assemble fence hardware in accordance with ASTM F567.

8. NUTS, BOLTS, AND WASHERS: Use as defined on Sheet 1.

9. RETROREFLECTIVE SHEETING: Use as defined on Sheet 1. Place two Retroreflective Sheets, one sheet with its center approximately 1'-6" above the Ground Line and one sheet with its center approximately 3'-2" above the Ground Line.

10. Line Posts (Typ.)
    11. Tension Bar (Typ.)
    12. Brace Rail Bands (Typ.)

INSTALLATION ELEVATION

TABLE OF CHAIN LINK FENCE COMPONENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>ASTM NO.</th>
<th>COMPONENT INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Posts</td>
<td>F 1083</td>
<td>Steel Pipe - 2&quot; NPS, Schedule 80 - Not hot-dip galvanized (Outside Diameter 2.38&quot;, 0.210&quot; Wall Thickness)</td>
</tr>
<tr>
<td>Chain Link Fabric</td>
<td>A 392</td>
<td>Polyvinyl Chloride (PVC) Coated Steel - No. 9 gauge Zinc Coated Wire (Metallic coated core wire diameter) - Polymer coating color Federal Standard 595 color Semi-Gloss Black FS27038 - Knocked Seige (Top and Bottom)</td>
</tr>
<tr>
<td>Tension Wire</td>
<td>F 626</td>
<td>Zinc Coated Steel Wire - No. 9 gauge</td>
</tr>
<tr>
<td>Brace Rails</td>
<td>F 1083</td>
<td>Steel Pipe - 1½&quot; NPS, Schedule 40 - Not hot-dip galvanized (1.660&quot; Outside Diameter, 0.140&quot; Wall Thickness)</td>
</tr>
<tr>
<td>Brace Rail Bands</td>
<td>F 626</td>
<td>No. 12 gage (Min. thickness) x ⅜ (Min. width) Steel Bands (Riveted or Heavy)</td>
</tr>
<tr>
<td>Tension Bars</td>
<td>F 626</td>
<td>⅜&quot; (Min. thickness) x ⅜ (Min. width) x 3'-11&quot; (Min. height) Steel Bars</td>
</tr>
<tr>
<td>Tension Bands</td>
<td>F 626</td>
<td>No. 14 gage (Min. thickness) x ⅜ (Min. width) Steel Bands</td>
</tr>
<tr>
<td>Hog Rings</td>
<td>F 626</td>
<td>Zinc Coated Steel Wire - No. 12 gauge</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>F 626</td>
<td>Zinc Coated Steel - Includes post or loop caps, horizontal and brace rail ends, and all other fittings and hardware</td>
</tr>
</tbody>
</table>
OPTION 1 - NEW CONSTRUCTION SECTION WITH UTILITY STRIP

OPTION 2 - NEW CONSTRUCTION SECTION WITHOUT UTILITY STRIP

OPTION 3 - NEW OR EXISTING SIDEWALK SHALLOW CONCRETE FOUNDATION

NOTES:
1. SIDEWALK MOUNTS: For direct mounts of fencing to sidewalk, use either Option 1 or Option 2 for conditions with or without a utility strip, respectively.

2. ANCHOR PLATES: Use anchor plates shown with the corresponding fence types on Sheet 1 and 2.

3. SHIM PLATES: Use aluminum shim plates in accordance with ASTM B209 or B221, Alloy 6061 or 6063.

4. NEOPRENE PADS: Use Neoprene Pads in accordance with Specification Section 932, except that testing of the finished pads is not required.

5. ANCHOR BOLTS:

   a. 3/8 Bolt, Headless: 3/8 Length Cast-In-Place with 9" embedment
   b. 3/8 Bolt, Headed: 9/16 Length Adhesive Anchors with 6/8" embedment, threaded full length, using drilled holes and an Adhesive Material System in accordance with Specifications Section 416 and 937

   Use Anchor Bolts in accordance with ASTM F1554 Grade 36. Use anchor bolts with single self-locking hex nuts. Tack welding of the nut to the anchor bolt may be used in place of self-locking nuts. Use nuts in accordance with ASTM A653 or ASTM A194. Use flat washers in accordance with ASTM F436. After the nuts have been tightened, distort the anchor bolt threads to prevent removal of the nuts. Galvanize distorted threads and tack welds in accordance with the Specification Section 561.

   Use galvanized steel anchor bolts with either of the following options:

   (a) 3/8 Bolt, Headless: 9/16 Length Adhesive Anchors with 6/8" embedment, threaded full length, using drilled holes and an Adhesive Material System in accordance with Specifications Section 416 and 937

6. SHALLOW CONCRETE FOUNDATION: The Option 3 foundation may be used in place of foundations shown on Sheets 1 and 2 where adjacent concrete or asphalt structures overtop the soil within 1'-0" of the foundation edge shown for increased soil stability.

   Use galvanized steel anchor plates in accordance with ASTM A36.

   For Fence Type P2, adjust post length to a nominal 4'-6".

   For Fence Type P2, do not use Mount Sleeves and change 3" NPS Pipe length per Note 6 of Sheet 1.

   For Fence Type P2, adjust post length to a nominal 4'-5 1/2".

   Foundation edge shown for increased soil stability.

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**SECTION A-A**
(Typical Plan - Post Top Chamfers)

**SECTION B-B**
(Typical Profile - Post Top Chamfers)

**SECTION C-C**
(End Post Bolts for Rope Mounting)

**SECTION D-D**
(Line Post Bolts for Rope Mounting)

**SECTION E-E**
(Typical Holes for Breakaway)

**NOTES:**

1. POSTS: Use timber post material in accordance with Specification Section 954. Set posts in accordance with Specification Section 550. When driving post holes and using soil backfill only, fill holes completely and tamp soil firmly into place. If driving posts, ensure that the method does not damage the post. Set posts plumb and within a tolerance of ± 1" from nominal spacing and fence.

2. NUTS, BOLTS, AND WASHERS: Use self-locking nuts in accordance with ASTM A563, bolts in accordance with ASTM A307, and washers in accordance with ASTM F436. Tack welds may be used in place of self-locking nuts. Snug tighten nuts and distort bolt threads to prevent removal of nuts.

3. ROPE: Use tan or manilla colored, 3-strand, twisted 1/2" polypropylene rope.

- Secure the rope to the post by threading continuously through each post hole indicated and then passing the perpendicular bolts through the rope. The bolt must have a snug fit within the rope, with the bolt within 1/2" of the rope's edge. Do not damage the rope more than 10% beyond the bolt hole cross section required. Position the rope correctly for swags prior to drilling bolt holes through the rope.

- Use consistent rope swag dimensions. The rope swag may be set at a dimension ranging from 4" to 6" below the post hole bottom, but all swags must conform to the selected dimension within a tolerance of ±1/2" relative to each other.

- Rope must be continuous over the length of the fence. At the beginning and end of fence, flame-melt strand tips to prevent unraveling; do not burn post.

4. RETROREFLECTIVE SHEETING: Use as defined on Sheet 1. Mount two sheets, with each sheet centered horizontally on the edge of the post and centered vertically between the 2" Ø Holes as shown. Mount sheets using the 1/2" Ø Bolts as shown with a washer and nut. Place bolts on the edge of the End Post (2 bolts per sheet).