

## Lighting Foundation Anchor System

Lighting foundations shall be comprised of a helical steel foundation anchor manufactured by AB CHANCE in Centralia, Missouri and a precast concrete collar manufactured by STONCO, Inc in Omaha, Nebraska under the trade name Enterprise Concrete Collars. The steel anchor and precast concrete collar shall be designed as a system to provide appropriate lighting structural support and a quality concrete base appearance.

The CHANCE self-screwing steel anchor provided shall have a base plate, shaft and helix that are properly sized for the specified soil conditions and lighting poles specified. The concrete collar shall be supported by an appropriately sized concrete support plate. The steel foundation anchor shall be fabricated by joining the base plate, shaft, concrete support plate and helix together by arc welding. The bolt circle shall match that of the fixture, being mounted on it. The steel foundation base plate, shaft and concrete support plate shall be ASTM A-36 structural steel. The wall thickness of the steel shaft shall be a minimum of 0.25 inches. The helix and pilot point shall be a low carbon weldable steel. The entire assembly shall be hot dipped galvanized after fabrication per ASTM 123 to a minimum of 3-mil coat thickness. The anchors bolts shall be grade 5 steel.

The top of the ENTERPRISE Concrete Collar provided shall have block-out of the same shape as the anchor base plate. The block-out shall be oversized to surround the CHANCE base plate by 1/4 inches on all sides and rest on the concrete support plate welded to the CHANCE anchor shaft. A concrete support plate welded to the steel foundation during manufacture or a galvanized loose concrete support accessory clamp appropriately field installed shall be located so as to allow the bottom surface of the concrete collar not to be in contact with soil so frost-heave is not a concern. The depth of the collar shall allow the collar to be positioned vertically so the concrete exposure above finished grade shall be as shown on the drawings. The concrete collar shall be produced to have a 6,000 psi minimum compressive strength. The concrete color and finish shall be as described by the part # identification shown on the drawings. The concrete design shall comply with ACI 318. The collar shall be manufactured by a Group A, Category A1 – Architectural Cladding and Load Bearing Units, PCI –Certified Plant.

The steel foundation anchor base plate and concrete collar shall have the shape and size so that the specified steel anchor base plate and the 1/4" gap is covered by the specified pole base cover unless otherwise shown or noted on the drawings.

Enterprise Concrete Collars • 4924 Poppleton Avenue • Omaha, NE 68106

Office 402-556-5544 • Fax 402-556-5611

INFO@enterprisecollars.com, • www.enterprisecollars.com

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The steel foundation anchor shall be capable of supporting the specified pole fixtures for the structural loadings provided by the pole manufacture in accordance with AASHTO specification and the site specific soil conditions provided by the engineer of record. This strength shall be certified in writing by CHANCE to the engineer prior to installation if requested. This structural strength verification shall be computed using Broms calculation methods based on the soil or boring information available for the project site.



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