

SECTION 323500 SCREENING DEVICES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Metal screening devices.
- B. Concrete footings.

1.02 REFERENCE STANDARDS

- A. ACI PRC-304 - Guide for Measuring, Mixing, Transporting, and Placing Concrete; 2000 (Reapproved 2009).
- B. ACI SPEC-301 - Specifications for Concrete Construction; 2020.
- C. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement; 2022.
- D. ASTM C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2023.

1.03 SUBMITTALS

- A. Product Data: Provide data on panels, accessories, fittings, and hardware.
- B. Shop Drawings: Indicate plan layout, hardware anchorage, relationship to steel support framing, and spacing and schedule of components.

C. Design Data:

- 1. Shop drawings signed and sealed by a professional structural engineer.
- 2. Design calculations sufficient to demonstrate compliance with design criteria; signed and sealed by a professional structural engineer.
- 3. Calculations to include posts, angles, clips, fasteners, and foundation design.

1.04 QUALITY ASSURANCE

- A. Designer Qualifications: Design framing system under direct supervision of a professional structural engineer experienced in designing this work and licensed in the State in which the Project is located.

PART 2 PRODUCTS

2.01 MATERIALS



- A. Posts, plates, angles and clips as indicated on drawings.
- B. Metal Screening Devices:
 - 1. Basis of Design: Longboard Architectural Products, Inc., www.longboardproducts.com/#sle.
 - 2. Privacy Beams, nominal 1 inch x 5 inches, 6063 T-5 extruded aluminum with factory finish.
 - 3. Provide optional beam caps all open ends.
- C. Concrete Footings:
 - 1. Normal Weight Concrete:
 - a. Compressive Strength: 2,500 psi when tested in accordance with ASTM C39/C39M at 28 days.
 - b. Water-Cement Ratio: Maximum 40 percent by weight.
 - c. Maximum Slump: 3 inches.
 - d. Maximum Aggregate Size: 5/8 inch.
- D. Hardware
 - 1. Galvanized or stainless steel hardware for exterior exposed use.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Concrete Footings:
 - 1. Excavation:
 - a. Excavate to accommodate new screening devices and construction operations.
 - b. Excavate to required elevations.

- c. Excavate to dimensions required to safely install, adjust, and remove bracing or supports necessary for installation of work.
- 2. Concrete:
 - a. Comply with requirements of ACI SPEC-301.
 - b. Place concrete in accordance with ACI PRC-304.
- B. Metal Screening Devices:
 - 1. Install according to manufacturer's written instructions.
 - 2. Post Framing:
 - a. Embed posts as indicated in concrete footings.
 - b. Set posts level and plumb in position indicated on drawings.
 - c. Make provisions for erection loads and sufficient temporary bracing to maintain structure plumb and in true alignment until completion of erection and installation of permanent bracing.
 - 3. Panel Sheathing:
 - a. Securely fasten to posts plumb and level. Install factory end caps.

3.02 TOLERANCES

- A. Maximum Variation from Plumb and Level: 1/4 inch.
- B. Maximum Offset from True Alignment: 1/4 inch.

3.03 PROTECTION

- A. Protect installed screening device from subsequent construction operations.
- B. Touch up, repair, or replace damaged products.

END OF SECTION

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