

SECTION 107326 - WALKWAY COVERINGS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Extruded aluminum walkway covers.
 - 2. Extruded aluminum rod supported canopies.
- B. Related Sections: The following sections contain requirements that relate to this section:
 - 1. Section 033000 "Cast-in-Place Concrete" for concrete under and around canopies.
 - 2. Section 079200 "Joint Sealants" for sealants used in this work.

1.3 ACTION SUBMITTALS

- A. Product Data: Submit manufacturer's specifications, anchor details and installation instructions for walkway covers and rod supported canopies.
- B. Shop Drawings: For layout and erection of walkway covers and rod supported canopies. Include plans, elevations and details of sections and connections. Show anchorage and accessory items. Provide templates for anchor and bolt installation by others. Drawings and details shall be project specific. Where project details differ from manufacturers standard details, project details shall be provided
- C. Where materials or fabrications are indicated to comply with certain requirements for design loadings, include structural computations, material properties and other information needed for structural analysis.
- D. Structural Design: Provide structural design calculations for canopy members; include reaction loads at columns for structural design of footings.
- E. Samples: Submit 2 sets of representative samples of materials and finished products as may be requested by Architect.

1.4 QUALITY ASSURANCE

- A. Structural engineering design documents shall be stamped by a structural engineer registered to practice in the state of this project.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products of one of the following:
 - 1. Dittmer Architectural Aluminum.
 - 2. Mitchell Metals.
 - 3. Peachtree Protective Covers.
 - 4. Perfection Architectural Systems, Inc.
 - 5. Tennessee Valley Metals

2.2 MATERIALS

- A. Walkway Covers: All-extruded aluminum structural system, radius-cornered, tubular, columns and open top beams and extruded, flat pan, self-flashing, interlocking deck. All sections shall be extruded aluminum alloy 6063 alloy-T-6 temper with a minimum thickness of 0.060. Closures at deck ends shall be weld plates.

- B. The structure shall be designed to meet Building Codes and ordinances applicable to the jurisdiction of this project. Roof deck shall also be capable of withstanding concentrated loads at any point such as walking on top.
- C. Rod Supported Canopies: Provide hanger rod type canopy with extruded, flat pan, aluminum deck. Deck members shall be self-flashing with interlocking edges. Closures at deck ends shall be weld plates. Fascia shall be 6" gutter, style 'J' extruded aluminum unless otherwise shown on drawings. Fascia shall be factory mitered and welded with neat, square corners.
 - 1. Support rods shall be round rod or pipe. No square tubing is acceptable.
- D. Foam Block-Outs: Rigid foam blocks sized as required for column embedment depth and shape.
- E. Sealants: Sealants use shall be in accordance with Specification Section "Joint Sealants."
- F. Fasteners: All fasteners shall be stainless steel or aluminum rivets. Screws shall be provided with neoprene washers
- G. Flashing: All flashing shall be .040 aluminum (min.).

2.3 FABRICATION

- A. Bent Construction: Beams and columns shall be factory mitered and welded with neat and square corners, into one-piece rigid bents. Beam and column sizes shall be as indicated on drawings unless a larger size is required for structural loading. Where larger sizes are required for structural loading, they shall be brought to the attention of the Architect. A coat of clear acrylic metal lacquer shall insulate column ends from electrolytic reaction with grout. Dimensions and elevations shall be field verified prior to beginning fabrication.
- B. Roof Deck: Manufactured extruded modules of interlocking deck in a homogenous structural unit, with joint designed and fabricated into structurally rigid, flat pan shape which is self-flashing. Interlocking joints shall be positively fastened as required to meet engineering design requirements. Fastening may be self-riveted by upsetting the metal or by screws or rivets. Roof deck on simple spans of 15' or more shall be assembled with camber sufficient to neutralize deflection caused by the dead load of material and to provide positive drainage from the center of the deck. The underside of the deck shall be flat with no protruding ribs.
- C. Concealed Drainage: Water shall drain internally from deck to beams to columns, spouting out at ground level through designated columns. Outlet holes in columns shall be cut neatly and as close to ground as practical. Deflectors shall be provided at all outlets. Deflectors shall be fastened at both front and back so they are permanently held in place. Deflectors shall be field installed after grouting bottom of columns as indicated under the "execution" section of this specification section.
- D. Fascia: Provide manufacturer's standard shape, 6 inches (152.4 mm). Fascia corners shall be factory mitered and neatly joined. Exposed fasteners and/or cover plates at corners are not acceptable.
- E. Expansion Joints: Structure shall be designed for temperature changes of 120 deg. F., with expansion joints provided if required and shown on shop drawings. Such joints shall have no metal-to metal contact between deck and beam or clamps. Expansion joints in fascia shall be provided with cover plates to cover any fasteners and or joints in fascia.

2.4 FINISHES

- A. General: Comply with the NAAMM "Metal Finishes Manual" for recommendations relative to application and for designations of finishes.
- B. Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I, 0 inch (0.02 mm) or thicker
- C. Colors: Dark Bronze.

PART 3 EXECUTION

3.1 PREPARATION

- A. Begin erection only after all concrete, masonry, and roofing work in the vicinity is complete and cleaned

3.2 INSTALLATION

- A. Erection shall be performed by the walkway cover manufacturer.
- B. Protective covers shall be erected true to line, level and plumb. Columns and beams shall be aligned with care before columns are grouted. Downspout columns shall be filled with grout to the discharge level to prevent standing water and downspout deflectors installed after grouting.
- C. Flashing, at adjoining construction to be installed as detailed to provide a water tight joint. Built-in or thru-wall flashing, where indicated or specified, shall be coordinated with protective cover shop drawings and installation.

3.3 CLEANING

- A. Clean walkway cover components after completion of installation.
- B. Provide final protection and maintain conditions in a manner acceptable to manufacturer, that insures walkway cover is left without damage or scratches at the time of Substantial Completion.

END OF SECTION 107326

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