

SECTION 10 73 16

CANOPIES (SLIDE ON WIRE)

PART 1 – GENERAL

1.1 SUMMARY

- A. Design, fabrication and installation of cable suspended fabric canopy system.

1.2 RELATED SECTIONS

- A. 09 54 43 - Stretched Fabric Ceiling Systems
- B. 10 71 13 - Exterior Sun Control Devices
- C. 10 71 13.43 - Fixed Sun Screens
- D. 10 73 00 - Protective Covers
- E. 10 73 16 - Canopies
- F. 10 73 26 - Walkway Coverings
- G. 12 93 00 - Site Furnishings
- H. 13 00 00 - Special Structures
- I. 13 31 00 - Fabric Structures
- J. 13 34 23 - Fabricated Structures

1.3 REFERENCES

- A. Structural welding code steel AWS D1.1
- B. Structural welding code steel AWS D1.2
- C. General Contractor license in the states of California, Nevada or related state.
- D. City of Los Angeles licensed Fabricator or other Building Code approved licensing authority.
- E. Certify flame-retardancy of fabrics in accord with NFPA 701, UL 214 or equivalent standard acceptable to Owner.
- F. Workers' Compensation Insurance certificate.
- G. General liability insurance certificate.
- H. Vehicle insurance certification.

1.4 SUBMITTALS

- A. General: Submit each item in this article according to the Condition of the Contract and Division 1 Specification Sections.
- B. Shop Drawings: Show shop and erection details, including cuts, copes, connections, holes, welds and fasteners. Show welds, both shop and field, per

the current recommended symbols of AWS A2.4. Do not fabricate members until shop drawings have been reviewed.

- C. Include stamped engineering calculations and stamped engineering drawings showing wind, snow or seismic load requirements of the Administrative Authority and include fastener and erection details, signed and stamped by the qualified professional engineer responsible for their preparation.

1.5 QUALITY ASSURANCE AND SAFETY

Requirements of Canopy Manufacturer and Canopy Contractor, contractor must provide proof of certifications:

- A. Have been in continuous operation as a professional canopy manufacturer for a minimum of ten (10) years prior to this contract.
- B. Hold a valid general contractor's license for a minimum of five (5) years.
- C. Welder Qualifications: The personnel manufacturing the metal frames must be certified welders.
- D. Provide written welding procedure specifications.
- E. Professional Engineer Qualifications: A licensed professional engineer or Architect legally authorized to practice in the jurisdiction where the project is located and who is experienced in providing engineering services for installed canopies similar to those indicated for this project and with a record of successful in-service performance.
- F. Have a current City of Los Angeles Fabricators' license or from other Building Code approved licensing authority.
- G. OSHA 10 Hour Construction Industry Certified Training.
- H. OSHA Fall Protection Training.
- I. Job site installation crew must include one CPR trained member on the job site at all times.
- J. The installation crews must have a copy of the canopy company's Code of Safety practices at the job site during times of installation.
- K. Hold daily Safety Tail Gate Meetings before start of installation work.
- L. When forklifts are used at the job site, the operator must be Fork Lift Operation Trained.
- M. Certified California AB1825 Sexual Harassment Training.
- N. The canopy fabricator must provide proof they have an ongoing written Quality Assurance program for 5 years or more.

- O. The canopy fabricator must provide proof of it full-time Quality Assurance manager.
- P. The canopy manufacturer must provide proof of \$4 million general liability insurance coverage.
- Q. The canopy manufacturer must provide proof of workers compensation insurance coverage.
- R. It is recommended that the canopy contractor be a current member of a professional awning trade association, i.e., Professional Awning Manufacturers Association, the Western Canvas Products Association or other established related trade association.

1.6 WARRANTY

- A. Warrant frame materials and workmanship against defects for a period of 1 year from date of substantial completion of the Work.
- B. Warrant fabric materials and workmanship against defects for a minimum period of 5 years, on a prorated basis, from the date of substantial completion of the work and/or offer the same warranty offered by the fabric manufacturer or supplier.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Approved Manufacturers
 - 1. Eide Industries, Inc.
16215 Piuma Avenue
Cerritos, California USA 90703-1528
Phone: (562) 402-8335
www.eideindustries.com

2.2 MATERIALS - SLIDE ON WIRE CANOPIES

- A. Fabric:
 - 1. Exterior grade mesh fabric, maximum 75% to 92% shade block, or selection made by architect or designer.
 - 2. Based on the city's requirements, the architect or designer is to specify if the fabric must be flame retardant to meet California Fire Marshall Requirements or equal.
 - 3. Canopy fabric must carry a minimum of five (5) year manufacturer's warranty.

- B. Spreader Bars: 1" Square aluminum .065 or larger depending on engineering calculation requirements.
- C. Cable Size: 70'-0" Span use 5/8" diameter galvanized steel cable
- D. Cable Size: 25'-0" Span use 3/8" diameter galvanized steel cable. Larger cable sizes may be required based on engineering calculations.
- E. Turnbuckle Size: 70'-0" Span use 5/8" diameter galvanized steel turnbuckle. Larger turnbuckles may be required based on engineering calculations.
- F. Turnbuckle Size: 25'-0" Span use 3/8" diameter galvanized steel turnbuckle. Larger turnbuckles may be required based on engineering calculations.
- G. Pulleys for 5/8" Cable corrosion resistant required. Larger pulleys may be required based on cable size.
- H. Pulleys for 3/8" Cable corrosion resistant required. Larger pulleys may be required based on cable size.
- I. Metal Welding: All joints must be mitered or completely welded to AWS standards, ground smooth, primed and painted. Steel welding electrodes shall be rated at 70 KSI with a minimum Charpy value of 20. Aluminum welding electrodes are to be compatible with alloy used.
- J. Anchors: Anchoring hardware shall be galvanized, zinc-coated or stainless steel, anchor size to be determined by the engineering calculations.
- K. Paint: All metal components be sandblasted, zinc rich primed and painted with polyester powder coat paint (except cables)
- L. Caulking: Acrylic latex or silicone sealant at Head Bar frame component and wall junction.
- M. Sewing Thread must be Tenara® brand or equal.

2.3 FABRICATION

- A. Fabricate slide on wire canopy and applicable frames in strict accordance with the reviewed shop drawings, written welding procedure specifications and the reference standards.
- B. Canopy Frame Finish: Frames and metal components are to be polyester powder coat painted when applicable.

PART 3 – INSTALLATIONS

3.1 INSTALLATION

- A. Minimum ten (10) years awning and canopy installation experience required by the slide-on-wire canopy contractor.

- B. Buildings are to be field measured by the slide-on-wire canopy contractor prior to manufacture and installation.
- C. Install slide-on-wire canopy in strict accordance with the Engineering drawings, reviewed shop drawings and appropriate Code requirements and aligned and plumb.
- D. Field welding procedures and operations shall comply with the applicable codes and standard. Steel welding electrodes shall be rated at 70 KSI with a minimum Charpy value of 20. Aluminum welding electrodes to be compatible with alloy used. Grind smooth exposed welds.
- E. Installation firm must hold a current contractor's license.

END OF SECTION 10 73 16