

## **SECTION 107316 CANOPIES**

### **PART 1 GENERAL**

#### **1.01 Related sections:**

- A. 107113 Exterior sun control devices.
- B. 107113.43 Fixed sun screens.
- C. 107300 Protective covers.
- D. 107313 Awnings
- E. 107326 Walkway coverings.
- F. 133100 Fabric structures
- G. 133123 Tensioned fabric structures
- H. 133133 Framed fabric structures

#### **1.02 SUMMARY**

- A. Canopy overall size x' - x" projection x' - x" wide.
- B. 16' - 0" each upright columns with base plates
- C. Work of this Section includes fabric awnings with steel canopy frames systems.
- D. Related Sections
  - 1. Section 06200 – Finish Carpentry.

#### **1.03 REFERENCES**

- A. Structural welding code steel AWS D1.1
- B. General contractor's license.
- C. Los Angeles City Approved Fabricators license (recognized by the City of Las Vegas and other US cities)
- D. Worker's Compensation Insurance certificate.
- E. General liability insurance certificate in excess of \$4 million.
- F. Vehicle insurance certification.

#### **1.04 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 cut, copes, connections holes and welds. Show welds, both shop and field, by the current recommended symbols of the AWS.

Do not fabricate members until shop drawings have been reviewed and approved by the customer.

1. Include engineering calculations compliant with wind load requirements of the local Building Department and include fastener and erection details, signed and sealed by the qualified professional engineer responsible for their preparation.

#### 1.05 QUALITY ASSURANCE

##### **Requirements of Awning manufacturer and Canopy Contractor, contractor must provide proof of certifications:**

- A. Have been in continuous operation as a professional fabric 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 awning frames must certified welders.
- D. Provide written welding procedure specifications.
- E. Professional Engineer Qualifications: A professional engineer who is legally authorized to practice in the jurisdiction where project is located and who is experienced in providing engineering services for installing fabric awnings similar to those indicated fro this project and with a record of successful in service performance.
- F. Have a current Los Angeles City Approved Fabricator's license
- 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 of the installation.
- J. The installation crews must have a copy of the awning 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 awning 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 trade association, i.e., Professional Awning Manufacturers Association, the Western Canvas Products Association or other established related trade association.

#### 1.06 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 8 years, on a prorated basis, from the date of substantial completion of the work and/or offer the same warranty offered by the fabric mill that manufactured or supplied the fabric.

#### 2.01 CANOPY MANUFACTURERS

- A. Approved Manufacturers:
- B. Eide Industries, Inc., 16215 Piuma Ave, Cerritos, CA 90703  
Ph: 562-402-8335 Fax: 562-924-2233, [www.eideindustries.com](http://www.eideindustries.com)

#### 2.02 CANOPY

- 1. Canopy shape: Hip Roof, Gable Roof or Radius Roof
- B. Fabric : Exterior grade fabric canopy material that carries a minimum 8 year manufacturer's warranty. Based on the city's requirements, the architect is to specify if the fabric must be flame retardant to meet California Fire Marshal requirements or equal. Flame retardant fabric brand name: Serge Ferrari Satin 502 vinyl.
- C. Frames:
  - a. Rafter steel tube
  - b. Ridge and arms steel tube

- c. Upright legs 6' x 6" x .500 estimated steel
- d. Base plates 14" x 14" x .500
- e. Anchor bolts 3/4" diameter "J" bolts or epoxy anchors
- f. Assembly structural bolts A325 1/2" diameter
- g. Welding to AWS standards with welds ground smooth. Frames designed for wind loads, snow loads and seismic requirements as required by structural engineering requirements.

- D. Frames: All corners are to be mitered or completely welded to AWS standards.
- E. Metal welding: All joints must be mitered or completely welded to AWS standards, ground smooth, primed and painted.
- F. Anchors: Anchoring hardware shall be galvanized, zinc-coated 3/4" diameter or greater based on engineering calculations.
- G. Frame finish: Must be sandblast zinc rich prime and polyester powder coat finish.
- H. Sewing tread, must be Tenera® brand or equal, R.F. Heat sealing

## 2.03 FABRICATION

- A. Fabricate canopy and 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

## PART 2 INSTALLATION

### 3.01 INSTALLATION

- A. Minimum ten (10) years awning installation experience required by the awning contractor.
- B. Areas are to be field measured by the canopy contractor prior to Canopy manufacture and awning installation.

- C. Install canopy and frames in strict accordance with the Drawings and the reviewed shop drawings, and provide appropriate building code requirements and aligned and plumb.
- D. Welding procedures and operation shall comply with the referenced standard. Welding electrodes shall comply with ASTM A 233, E-70 Series. Grind smooth exposed welds; finish welds to the inside.
- E. Concrete footing or foundation to be designed by the engineer
- F. Installation firm must hold a current California contractor's license.

END OF SECTION