

CITY OF MADERA, CA.
18 - 5' X 9' SHELTERS

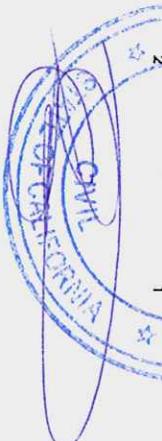
JOB NOTES:

STRUCTURE TO BE TUBULAR STEEL FRAME (A-500)
FINISH TO BE INEMEC PAINT - COLOR = 63 RD "Campfire Coffee"
ANTI-GRAFFITI COATING ON FRAME AND ROOF UNDERSIDE
ROOFTO BE "SPANISH TILE" 24 GAUGE ROOF TILES - COLOR = "Terra Cotta"

FOR VENDOR AND CONSULTANT:
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LINE ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	STEEL FRAME				
2	SPANISH TILES				
3	PAINT				
4	ANTI-GRAFFITI COATING				

Duc-Gard Industries, Inc.
Small Floor Plan
SCALE: 1/8" = 1'-0"
SHEET 1 OF 1



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SECTION 10 73 43

BUS STOP SHELTERS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Transit Shelters, Bus Stop Shelters, and Special Site Shelters.

1.3 REFERENCES

- A. Federal Specifications (Fed. Spec.):
 - 1. QQ-A-200/9C(1)...Extruded aluminum members 6063-T5, et. al.
 - 2. HH-I-521B...Insulation board, Thermal, Semi-Rigid Polyurethane.
 - 3. TT-S-001657...Sealants, Type 1.
- B. American Society for Testing Materials (ASTM):
 - 1. C-920-79...Elastomeric Joint Sealants Type S, Class 12, Grade NS
 - 2. C-518...Insulation Board, Semi-Rigid Polyurethane.
 - 3. E-84...Standards method of test for surface burning characteristics of building materials.
- C. American National Standards Institute (ANSI): ANSI A58.1... Gravity and Lateral Loads Design.
- D. Uniform Federal Accessibility Standards: FED-STD-795, 4/1/88...4.13 Door Accessibility.
- E. The Aluminum Association (AA): Designation System for Aluminum Finishes (March 1973)
- F. International Conference of Building Officials, Uniform Building Code.
- G. Public Law 101-336: Americans with Disabilities Act of 1990 (ADA).
- H. Standards of the American Welding Society.
- I. AISC Publications:
 - 1. Code of Standard Practice for Steel Buildings and Bridges.
 - 2. Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings, Including Commentary.
 - 3. Structural Welding Code - Steel

1.4 DESIGN REQUIREMENTS

- A. Basic Wind Speed: 90 mph.
- B. Exposure Category: 2 (Exposure B)
- C. Basic Snow Load: 20 psf.

1.5 SUBMITTALS

- A. Specified Manufacturer: Product shall be as manufactured by Duo-Gard Industries, Inc., Canton, MI. Requests for approval of other brands shall be submitted to owner 14 days prior to bid date and shall be accompanied by complete product data, drawings, and references, as described below. Samples submitted upon request.
- B. Product Data: Submit manufacturer's product data, including materials, components, finish and all accessories and equipment furnished.
- C. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections and details, dimensions, anchorage, fasteners and locations, flashing and seal details if applicable, finish, and options.
- D. Erection Drawings: Submit manufacturer's instructions and drawings, and develop erection procedures to enable field installation and repair.
- E. Manufacturer's Project References: Submit list of completed projects including project name and location and type of shelters manufactured.
- F. Warranty: Submit manufacturer's standard warranty.

1.6 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
 - 1. Continuously engaged in Shelter manufacturing with a minimum of 10 years successful experience.
 - 2. Able to demonstrate successful performance on comparable projects.
 - 3. Responsible for all components, including structural design.
- B. Installer's Qualifications:
 - 1. Authorized by manufacturer to install Shelters.
 - 2. Trained by manufacturer' standard training methods and policies.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name, manufacturer, and location of installation with detailed written instructions for installation.
- B. Storage: Store materials in a clean, dry area indoors in accordance with manufacturer's

Instructions.

1.8 WARRANTY

- A. Warranty Period: Shelter Parts and Manufacture is one year starting on date of substantial completion. Roof Tile paint finish is guaranteed effective for minimum 20 years.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Duo-Gard Industries Inc., 40442 Koppernick Road, Canton, Michigan 48187. Phone (734) 207-9700. Fax (734) 207-7995. Web Site www.duo-gard.com. E-Mail info@duo-gard.com.

2.2 GLAZING

- A. Not Applicable.

2.3 STRUCTURAL FRAMING

- A. Steel members, unless otherwise noted:
 - 1. Base Plates: ASTM A500 Steel
 - 2. Shapes and Bars: ASTM A36.
 - 3. Cold-Formed Tubing: ASTM A 500 Grade B. ASTM A 513 where req'd.
 - 4. Pipe: ASTM A 53, Type E or S, Grade B.
 - 5. Black and hot-dipped zinc coated, for welded and seamless steel pipe for ordinary use: ASTM A 120.
 - 6. Zinc (hot-galvanized) coatings, for products fabricated from rolled, pressed, and forged steel shapes, plates, bars, and strips: ASTM A 123.
 - 7. Mild steel arc-welded electrodes: ASTM A 233.
- B. Shelter columns shall be completely welded of four 2 ½" x 2 ½" x ¼" steel tubes with 2" x 2" x ¼" spacers. Bases are ½" x 8" x 18 ¼" ASTM A500 Steel.
- C. Shelter rafters shall be completely welded of two 3" x 3" x 3/16" steel tubes. Rafters shall be bolted or welded to shelter columns below.
- D. Shelter purlins shall be 2 ½" x 3 ½" x 3/16" rectangular steel tubes. Purlin connection to rafter shall be concealed bolt connection. All connections to columns and rafters shall be blind ½" bolts into tap pads, min. 3/8" thread engagement.
- E. Shelter shall be engineered to provide a framework of adequate structural integrity to satisfy the uniform building code (UBC), and to meet the requirements for snow, wind and seismic loading for the location(s) being considered.
- F. Fasteners:
 - 1. Roof framing, accessories, amenities, wall / roof trim: stainless steel or aluminum.
 - 2. Structural/Frame Connections: Grade 304 or 316 Stainless Steel
 - 3. Anchoring: Grade 304 or 316 Stainless Steel Wedge Anchor Bolts

4. Fasteners 1/4" dia. And less – finished to match at factory (as req'd).
 5. Fasteners 5/16" and greater: to remain unfinished in completed product, or finished in field.
- G. Shelter framing components, and the method of fastening them to the supporting foundations, shall be capable of withstanding lateral loads per ANSI A58.1, the UBC, or applicable local building codes, whichever is more stringent.

2.4 MATERIALS

- A. Roof sheathing shall be: Berridge Manufacturing – "Spanish Tile" 24 gauge standing seam metal roof system. Panels shall have Kynar 500 (or equal) paint finish.
1. Edges and Joints to be trimmed to match.
- B. Joint Sealant:
1. Factory-Applied Sealant: Gunnable, non-hardening, elastomeric sealant. ASTM C 920, Type S, Class 12, Grade NS. Fed Spec TT-S-1657, Type 1.n.
 2. Field-Applied Sealant: Approved by shelter manufacturer. As specified in Section 07920.
- C. Field Fasteners:
1. Comply with shelter manufacturer's installation instructions for fastener types, quantities, and usage.

2.5 COLOR AND FINISH

- A. Steel framework finish shall be (choose):
1. Polyester powder-coated. Color:_____
 2. Duo-Gard long-wear polyurethane paint process:
 - a. media blast prep;
 - b. Tnemec tname zinc 90-97 primer;
 - c. Tnemec series n69 hi-build epoxoline 2-part epoxy midcoat;
 - d. Tnemec series 73 endura-shield topcoat;
 - e. Color:_____.
- B. Extruded aluminum trim and accessories shall be:
- a. Matching steel framework paint finish, steps 2.5.A.1.c., -d., and -e. above;
 - b. Class II anodized in accordance with the Aluminum Association.
Color:_____;

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive shelters. Notify Architect of conditions that would adversely affect installation. Do not proceed with installation until unsatisfactory conditions are corrected.

3.2 PREPARATION