

**3CP 2 - SITE FURNISHINGS****PART 1 GENERAL****1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General Conditions and Special Provisions, and other Technical Specification Sections apply to this Section.

**1.02 SUMMARY**

- A. This Section includes the following site work and site furnishings in the Project:
  - 1. Installing Timber Bench on Pedestal – **Additive Bid Item No. 3 and No. 5**
  - 2. Installing Logs on Grade – **Additive Bid Item No. 3**
  - 3. Salvaging and installing EBRPD sign, trash receptacle, Mutt mitt® – **Additive Bid Item No. 3**
  - 4. Installing Restoration Fence – **Additive Bid Item No. 3 and No. 5**
  - 5. Installing EBRPD Standard Pipe Gate – **Additive Bid Item No. 1**
  - 6. Steel Header – **Additive Bid Item No. 3 and No. 5**
  - 7. Contra Costa County Gate
  - 8. Community Notice Board - **Additive Bid Item No. 5**
- B. Related Sections include the following:
  - 1. Section “Site Boulders”

**1.03 DEFINITIONS**

- A. Owner refers to the Contra Costa County Flood Control and Water Conservation District, which is the lead agency. Owner or Owner's Representative (O.R.) for the project refers to the district engineer, associates, or agents.
- B. EBRPD: East Bay Regional Parks District

**1.04 SUBMITTALS**

- A. Submittal Package: All submittals in this specification section (excluding re-submittals) shall be compiled together and submitted to O.R. as one package.
- B. Product Data: Provide for each type of product indicated. Include construction and fabrication details, material descriptions, dimensions of individual components and profiles, finishes, field-assembly requirements, and installation details.
- C. Shop Drawings: For EBRPD Standard Pipe Gate. Show locations and dimensions of all posts in relation to paving, adjacent fencing and grades. Indicate materials, dimensions, sizes, weights, and finishes of components. Include plans, elevations, sections, details of post anchorage and concrete footing dimensions, attachment, bracing, swing direction and clearances, and other required installation and operational clearances.
- D. On-Site Mock-ups: provide mock-ups for all site work and site furnishing installations including but not limited to: Bench installation, and Logs on Grade (each type), for O.R. approval prior to installing.

- E. Samples for Verification: For each material (provided in Ziploc bags), and for every type of exposed finish required, prepared on samples not less than 6-inch long for linear components and 6-inch square for sheet components.
- F. Material Certificates: For site furnishings, signed by manufacturer

#### 1.05 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of site furnishing through one source from a single manufacturer.
- B. Contractor installing the Site Furnishings shall have a minimum of 5 years of experience in the installing of such elements with the personnel, facilities, and equipment adequate for the products specified, and shall produce written proof of such with bid.

### PART 2 PRODUCTS

#### 2.01 SITE FURNISHINGS

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include elements noted below:
- B. Timber Bench on Pedestal
  - 1. Redwood Timbers: Free of Heart Center, Clear Heart Vertical Grain, sanded finish all sides.
  - 2. If request by O.R. a clear, invisible, non-staining sealer shall be applied to all surfaces of the redwood.
  - 3. Pins: #5 Rebar, hot dipped galvanized. Meet or exceed ASTM A153.
  - 4. Epoxy: Two-component, epoxy based adhesive, Simpson, brand, SET, High Strength Epoxy-Tie Anchoring Adhesive, ASTM C-881, or approved equal.
- C. Log on Grade
  - 1. Custom milled eucalyptus log sections shall be reviewed and approved by O.R. prior to final trimming and finishing for use as benches. Milled log sections shall be of the highest quality, without checking or splitting, warping, discoloration or scars from felling, stockpiling, storage, or handling processes. Saw cuts shall be straight, even, and plumb. Belt sand all surfaces and face cuts to complete, smooth finish which allows for no splintered surfaces. Final sanding treatment shall be with #100 grit paper.
  - 2. Galvanized Pipe: Schedule 40 Steel, ASTM A53 and A733
- D. EBRPD sign, trash receptacle, Mutt mitt®. Contractor to salvage and re-install.
- E. Restoration Fence
  - 1. Post: Pressure Treated (P.T.) Douglas fir. Structural grade, No. 1 or better, FOHC. Pressure treated for ground contact, to meet AWPA standards. Pressure treated with CA-C copper azole. Treat all cut sections and ends with CA-C copper azole to match factory pressure treatment stain. Ensure that wood does not exhibit cupping, warping, or crowning, twisting or checking.
  - 2. Cable: Galvanized cable, see Plans.
  - 3. Cable Fittings: Cable Clamps, Nut Eye Bolts, Thimble, Washers, Cable Crimps; hot-dipped galvanized. See Plans.

- F. Anchors, Fasteners, Fittings, and Hardware (if specified): Manufacturer's standard, corrosion-resistant-coated or non-corrodible materials; commercial quality; tamperproof, vandal and theft resistant; concealed, recessed, and capped or plugged. Provide as required for site furnishing assembly, mounting, and secure attachment.
- G. Anti-theft Hold-Down Brackets: For securing site and street furnishings to substrate; two per unit.
- H. EBRPD Standard Pipe Gate: Furnish and install Single Pile Gates where noted on plans. Swing Gate shall be per EBRPD detail in Specification Appendix. Provide all materials and accessories noted for complete installation as noted in Specifications.
- I. Steel Edge: Col-met #1007, 3/16-inch thick by 4-inch height, with factory stakes. Factory applied satin-black painted finish. Telephone: 800.829.8225. Col-met #712 (lighter gauge) can be used for limited areas with tight radius turns only if approved by O.R.
- J. CCC Gate: CCC Standard Plan CD70, 4-ft Height, Black Vinyl Coating, 12-FT Minimum Clearance.
- K. Community Notice Board:
  - 1. Post: Pressure Treated (P.T.) Douglas fir. Structural grade, No. 1 or better, FOHC. Pressure treated for ground contact, to meet AWPA standards. Pressure treated with CA-C copper azole. Treat all cut sections and ends with CA-C copper azole to match factory pressure treatment stain. Ensure that wood does not exhibit cupping, warping, or crowning, twisting or checking. Above grade portions of post to be sanded and sealed with Penofin for Pressure Treated Wood in Clear/Rainier
  - 2. Cap, Stringer, Rail, and Vertical Closure Piece: Construction Common Redwood, sanded and sealed with Penofin Redwood All Heart.
  - 3. Fence fabric shall be commercial grade "galvanized after welded" utility fabric as manufactured by Howard Wire Cloth, Hayward, CA, phone (510) 887-8787, or equal. Fabric shall be 11 gauge with 3-inch vertical by 3-inch horizontal spacing.
  - 4. Steel clips used to attach welded wire mesh fabric shall be 9-gauge, and commercial grade galvanized.

## 2.02 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for O.R. and Metal Products" for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

## 3.02 INSTALLATION

- A. Comply with City of Brentwood, Contra Costa County and furnishing manufacturers' installation standards, directions, and product manufacturers' written installation instructions, unless more stringent requirements are indicated. Complete field assembly of site furnishings, as required to complete the Work as shown on Plans.
- B. Install site furnishings level, plumb, true, and securely anchored at locations indicated on the Plans.
- C. Post Setting: When specified, set cast-in support posts in concrete footing with smooth top, shaped to shed water. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at correct angle and are aligned and at correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.
- D. Timber Bench on Pedestal: Protect bench during the duration of the of the project. Ensure surface remains free of dirt, debris, and scratches.
- E. Log on Grade: Install level. Orient logs with best face exposed. Lengths and specific layout per O.R. in field. Contractor shall trim logs per O.R. direction. Install as noted on the Plans. Pin logs with pipe pins as noted on Plans. Ensure pins are driven to refusal.
  - 1. At Central Bridge Triangle, install logs after edging and before DG. Slot logs to receive edging. Slot shall be  $< \frac{1}{4}$ " width cut to depth of edging.
  - 2. At Sand Creek Confluence, install logs after DG installation.
  - 3. At Duffy Meadow, install logs on slope and retaining logs before edging and DG.
- F. Restoration Fence: Complete installation as noted on Plans and in Specifications. Posts shall be set level, plumb and true along a smooth alignment. Place washers between posts and nut eye bolts and cable clamps. Overlap splice 14-inches, install three cable crimps evenly spaced. Outer cable crimps shall be  $\frac{1}{4}$ " from cable end.
- G. Trash/Recycle Receptacles: Install and locate as shown on Plans or as directed by O.R. in field. Install per City Standards.
- H. Restoration Fence: Install as noted and as directed by O.R. in field.
- I. EBRPD Standard Pipe Gate: Install per EBRPD Standard Plans and as directed by O.R. in the field. Gate Post must be installed on opposite side of trail from creek. Latch Post for trail closed position must be installed on the creek side of trail. Install second Latch Post for gates installed at both ends of Central Blvd undercrossing. Second latch post to secure the gate in the open condition. Second Latch Post must be installed on opposite side of the trail from the creek.
- J. CCC Gate: Install footing adjacent to existing mow band. Align gate perpendicular to mow band.
- K. Metal Edging: Set top of edging flush to finish surface and finish grade elevations noted on Plans. Stake per manufacturer recommendations.
  - 1. Ensure curves are smooth without seams or creases.
  - 2. No continuous run of edging longer than 10-ft shall have a section of edging shorter than 6-ft.
- L. Community Notice Board: Install per plans.

**3.03 CLEANING**

- A. After completing the work in this section, inspect all components. Remove spots, dirt, and debris. Repair damaged finishes to match original finish or replace component.