

**SECTION 323000**  
**SITE FURNISHINGS**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Combo Waste and Recycling Receptacle
  - 2. Bicycle Rack
  - 3. Removable Bollard
  - 4. Tree Grate
  - 5. Bike Locker
  - 6. Skate Deterrents
  - 7. Fabrication of Site Furnishings.
  - 8. Placement of Site Furnishings.
  
- B. For Precast Concrete Specialties, see Section 03 48 00.
  
- C. For Site Concrete, see 32 13 16.

**1.2 DEFINITIONS**

- A. Acceptance: Wherever the terms “acceptance” or “accepted” are used herein, they mean acceptance of Owner’s representative in writing.

**1.3 REFERENCES**

- A. ASTM — American Society for Testing Materials:
  - 1. A 185/A185M — Specification for Steel Welded Wire, Fabric, Plain, for Concrete Reinforcement. Most current edition.
  - 2. A 615/A615M — Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement. Most current edition.
  - 3. C 33 — Specification for Concrete Aggregates. Most current edition.
  - 4. C 140 — Method of Sampling and Testing Concrete Masonry Units. Most current edition.
  - 5. C 150 — Specification for Portland Cement. Most current edition.
  - 6. C 330 / C 330M — Specification for Lightweight Aggregates for Structural Concrete. Most current edition.
  - 7. C 881/C881M — Specification for Epoxy-Resin-Base Bonding Systems for Concrete. Most current edition.
  - 8. C 979 — Specification for Pigments for Integrally Colored Concrete. Most current edition.
  - 9. C 1116 / C 1116M — Specification for Fiber-Reinforced Concrete. Most current edition.
  
- B. Uniform Building Code (UBC). Most current edition.

- C. Standard Grading and Dressing Rule No. 15, West Coast Lumber Inspection Bureau (SCLIB). Most current edition.
- D. American Lumber Standards Committee (ALSC).
- E. Product Standard 1 of the U.S. Dept. of Commerce (PS-1). Most current edition.
- F. Forest Stewardship Council (FSC).
- G. American Wood Preservers' Association (APE).

#### 1.4 SUBMITTALS

- A. Product Data:
  - 1. Bike Rack: Manufacturer spec sheet, to include dimensions, finish and color, installation instructions
  - 2. Bike Locker: Manufacturer spec sheet, finish and color, installation instructions
  - 3. Trash Receptacle: Manufacturer spec sheet, finish and color, installation instructions
  - 4. Waste Receptacle: Manufacturer spec sheet, finish and color, installation instructions
  - 5. Bollard: Manufacturer spec sheet, finish and color, installation instructions
  - 6. Skate Deterrents: Manufacturer spec sheet, finish, installation instructions
  - 7. Tree Grate: Manufacturer spec sheet, finish, installation instructions
  - 8. Tree Grate Frame: Manufacturer spec sheet, finish, installation instructions
- B. Samples:
  - 1. Combo Trash and Recycling Receptacle: 4-inch segment of finish
  - 2. Bicycle Rack: 4-inch segment of finish
  - 3. Removable Bollard: 4-inch segment of finish
  - 4. Tree Grate: 12-inch segment of grate and attachment.
  - 5. Bike Locker: 4-inch sample of finish
- C. Shop Drawings:
  - 1. Provide shop drawings for Tree Grate and Tree Grate Frame. Show shop and erection details, to scale, including dimensions, sizes, thicknesses, gauges, finishes, joining, segments, joints, attachments, holes, welds, bolts, elevations and relationship of work to adjoining construction. Prepare details at not less than 3 inches = 1 foot.
  - 2. Where items must fit and coordinate with finished surfaces and/or constructed spaces, take measurements at site and not from the Drawings.
  - 3. Indicate welded connections using AWS A2.0 welding symbols.
- D. Manufacturer's Current Printed Instructions:
  - 1. Furniture Manufacturer's Cleaning Instructions.

#### 1.5 QUALITY ASSURANCE:

- A. Fabricator Qualifications:
  - 1. Established international reputation having work similar to that specified, in use for a minimum of 10 years.

2. Shop shall have proper equipment for Work specified, including application of finish.
  3. Fabricators and finishers shall be recognized experts in the Work they are engaged to perform.
- B. Regulatory Requirements:
1. Meet requirements of applicable laws, codes, and regulations required by authorities having jurisdiction over such Work.
  2. Provide for inspections and permits required by federal, state and local authorities in furnishing, transporting, and installing materials.

## 1.6 DELIVERY, STORAGE AND HANDLING

- A. Loading and Shipment:
1. Carefully pack the units for shipment free from stains and other deleterious material.
  2. Exercise precautions against damage in transit.
- B. Storage:
1. Store units on non-staining wood skids or pallets at least four inches above grade.
  2. Place and stack skids and units to distribute weight evenly and to prevent breakage or cracking.
  3. Protect and store units from weather and soiling with waterproof non-staining covers or enclosure, but allow air to circulate around units.
- C. Handling:
1. Handle units to prevent chipping, breakage, soiling or other damage.
  2. Do not use pinch or wrecking bars without protecting edges of units with wood or other rigid materials.
  3. Lifts with wide-belt type slings wherever possible.
  4. Do not use wire rope or ropes containing tar or other substances which might cause staining.
  5. If required, use wood rollers and provide cushion at end of wood slides.

## 1.02 WARRANTY

- A. General Description: In addition to manufacturer's warranties, warrant Work for a period of one year from Date of Final Completion against defects in materials and workmanship.
- B. Additional Items Covered: Warranty shall also cover repair of damage to other materials and workmanship resulting from defects in materials and workmanship.
- C. Exceptions: Contractor shall not be held responsible for failures due to normal wear, neglect by Owner, vandalism and other causes outside the Contractor's control.

## PART 2 - PRODUCTS

### 2.1 ACCEPTABLE MANUFACTURERS

- A. Combo Waste and Recycling Receptacle:
1. mmcite – [www.mmcite.com](http://www.mmcite.com).
  2. Or accepted equal.

- B. Bicycle Rack:
  1. mmcite – [www.mmcite.com](http://www.mmcite.com).
  2. Or accepted equal.
- C. Bike Locker:
  1. Dero – [www.dero.com](http://www.dero.com).
  2. Or accepted equal.
- D. Removable Bollard
  1. mmcite – [www.mmcite.com](http://www.mmcite.com).
  2. Or accepted equal.
- E. Tree Grate
  1. Urban Accessories – [www.urbanaccessories.com](http://www.urbanaccessories.com)
  2. Or accepted equal.

## 2.2 MANUFACTURED UNITS

- A. Combo Waste and Recycling Receptacle:
  1. Type: Crystal CS210x – Custom adjoin (2) units
  2. Finish: Powder-coated Steel
  3. Color: Gray Aluminum RAL 9007
  4. Capacity: 15 gallon (per unit)
  5. Weight: **93 96** lb (per unit) (**Addendum 03**)
  6. Inner Bin: Bent Zinc Coated
  7. Label: Symbols for Waste and Recycling per manufacturer’s standard graphics
  8. Quantity: See Plans
- B. Bicycle Rack:
  1. Type: Elk110
  2. Finish: Powder-coated Steel
  3. Color: Gray Aluminum RAL 9007
  4. **Dimensions: 555x610x880mm (Addendum 03)**
  5. Quantity: 4
- C. Bike Locker:
  1. Type: Single Locker **D1 (Addendum 03)**
  2. Finish: Powder-coated Steel
  3. Color: Iron Gray
  4. **Lock: U-lock/Padlock Handle (Addendum 03)**
  5. Quantity: 2
- D. Removable Bollard:
  1. Type: Elias SE150
  2. Finish: Powder-coated Steel
  3. Color: Gray Aluminum RAL 9007

4. **Dimensions: Total height 59", Above Ground Height 39" (Addendum 03)**
5. **Lock: 19mm saddle (Addendum 03)**
6. Quantity: See plans

E. Tree Grate

1. Type: Jamison
2. Material: ~~Ductile~~ **Ductile Gray Iron, ASTM A48 CLAST 35B or better, hardness 170-223 brinell (Addendum 03)**
3. Finish: Rust conditioner
4. **Frame: Pedestrian Rating (Addendum 03)**
5. Quantity and Size: See Plans

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Verification of Conditions: Examine site and verify that conditions are suitable to receive Work and that no defects or errors are present which would cause defective installation of products or cause latent defects in workmanship and function.
- B. Notification of Unsuitable Conditions: Before proceeding with Work, notify Owner and Owner's representative in writing of unsuitable conditions.

#### 3.2 PREPARATION

- A. Protection:
  1. Use every possible precaution to prevent damage to existing conditions to remain such as structures, utilities, irrigation systems, plant materials and paving on or adjacent to the site of the Work.
  2. Provide barricades, fences or other barriers as necessary to protect existing conditions to remain from damage during construction.
  3. Do not store materials or equipment, permit burning, or operate or park equipment under the branches of existing plants to remain.
  4. Submit written notification of conditions damaged during construction to the Owner and Owner's representative within 2 working days of observed damage and before damage is covered.

#### 3.3 INSTALLATION

- A. General: Install as indicated on Drawings.
  1. Contractor is responsible for all coordination with PG&E staff for stand by in the installation of all site furnishings within the PG&E easement.

#### 3.4 FIELD QUALITY CONTROL

- A. Field Observation Reviews by Owner's representative: Coordinate and schedule with Owner's representative.

### 3.5 CLEANING

- A. General: Clean and keep clean until Owner accepts maintenance.
- B. Furniture Cleaning Method: Meet requirements of manufacturer's current printed instructions.

### 3.6 PROTECTION

- A. Furniture Storage: Protect furniture from damage due to construction Work operations and vandalism by storing in secure interior storage room until day of final review.

**END OF SECTION**