

SECTION 129300
SITE FURNISHINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Benches.
 - 2. Tables and Seating.
 - 3. Bicycle racks.
 - 4. Trash receptacles and Ash Urns.
 - 5. Planters.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples: For each exposed finish.
- C. Material Certificates: For site furnishings, signed by manufacturers.
- D. Maintenance Data.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated; free of surface blemishes.
- B. Steel and Iron: Free of surface blemishes.
- C. Stainless Steel: Free of surface blemishes.
- D. Wood: Surfaced smooth on four sides with eased edges; kiln dried, free of knots.
- E. Fiberglass: Multiple laminations of glass-fiber-reinforced polyester resin with UV-light stable, colorfast, non-fading, weather- and stain-resistant, colored polyester gel coat, and manufacturer's standard finish.
- F. Plastic: Color impregnated, color and UV-light stabilized, and mold resistant.

- G. Anchors, Fasteners, Fittings, and Hardware: Manufacturer's standard, corrosion-resistant-coated or non-corrodible materials; commercial quality, tamperproof, vandal and theft resistant, concealed, recessed, and capped or plugged.
- H. Non-shrink, Non-metallic Grout: Premixed, factory-packaged, non-staining, noncorrosive, nongaseous grout complying with ASTM C 1107; recommended in writing by manufacturer, for exterior applications.
- I. Erosion-Resistant Anchoring Cement: Factory-packaged, non-shrink, non-staining, hydraulic-controlled expansion cement formulation for mixing with potable water at Project site to create pourable anchoring, patching, and grouting compound; resistant to erosion from water exposure without needing protection by a sealer or waterproof coating; recommended in writing by manufacturer, for exterior applications.
- J. Galvanizing:
 - 1. Zinc-Coated Tubing: External, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. of zinc after welding, a chromate conversion coating, and a clear, polymer film. Internal, same as external or consisting of 81 percent zinc pigmented coating, not less than 0.3 mil thick.
 - 2. Hot-Dip Galvanizing: According to ASTM A 123/A 123M, ASTM A 153/A 153M, or ASTM A 924/A 924M.

2.2 Benches

- A. Manufacturers:
 - 1. Landscape Forms.
- B. Model:
 - 1. Austin Bench
- C. Mounting:
 - 1. Anchor to paving with manufacturers recommended anchoring devices.

2.3 SEATING AND TABLES

- A. Manufacturers:
 - 1. Landscape Forms.
- B. Table Model:
 - 1. Carousel Table with attached Seating

- a. Frame Finish: Black Powdercoat
- b. Top: Catena solid table top
- c. Mounting: None

2.4 BICYCLE RACKS

1. Frame: Galvanized steel.
 - a. Tubing OD: Not less than 1-5/8 inches.
 2. Style: "Ribbon Style" double-side parking.
 3. Security: Designed to lock wheel or frame.
 4. Installation Method: Surface flange anchored concrete paving.
- B. Steel Finish: Galvanized with powder-coated finish.
1. Color: As selected by Landscape Architect from manufacturer's full range of Standard color options.

2.5 TRASH RECEPTACLES AND ASH URNS (IN DEVELOPMENT—contact Landscape Manager for current requirements)

- A. Manufacturers: Subject to compliance with requirements of the FP&C Landscape Project Manager, provide products by one of the following:
1. BCI Burke Company, LLC.
 2. BRP Enterprises, Inc.
 3. Canterbury International.
 4. Columbia Cascade Company.
 5. Country Casual.
 6. Creative Pipe, Inc.
 7. DuMor Inc.
 8. FairWeather Site Furnishings.
 9. Fiberglass Engineering Company.
 10. Fibrex Group Inc. (The).
 11. Forms+Surfaces.
 12. GameTime; a PlayCore, Inc. Company.
 13. Gardenside Ltd.
 14. Henderson Recreation Equipment Ltd.
 15. Huntco Supply, LLC.
 16. Kay Park Recreation.
 17. Keystone Ridge Designs, Inc.
 18. Landscape Forms.
 19. Landscape Structures Inc.

20. L. A. Steelcraft.
 21. Maglin Furniture Systems Ltd.
 22. Miracle Recreation Equipment Co.; a division of PlayPower, Inc.
 23. Playworld Systems, Inc.
 24. Recreation Creations, Inc.
 25. RPI Designs.
 26. Sitecraft.
 27. Smith & Hawken.
 28. Urban Accessories, Inc.
 29. Victor Stanley, Inc.
 30. Wausau Tile, Inc.; Metal-Form Division.
- B. Aluminum Facing Surrounds: **[Aluminum sheet] [Perforated aluminum sheet] [Grid in tubular frame] [Evenly patterned, parallel flat aluminum straps, bars, or tubular shapes] [Match benches]** <Insert material and description>.
- C. Steel Facing Surrounds: **[Steel sheet] [Perforated-steel sheet] [Evenly patterned, parallel flat steel straps, bars, or tubular shapes] [Evenly patterned, parallel round steel rods, bars, or tubular shapes] [Grid in tubular frame] [Match benches]** <Insert material and description>.
- D. Stainless-Steel Facing Surrounds: **[Steel sheet] [Perforated-steel sheet] [Evenly patterned, parallel flat steel straps, bars, or tubular shapes] [Evenly patterned, parallel round steel rods, bars, or tubular shapes] [Grid in tubular frame] [Match benches]** <Insert material and description>.
- E. Wood Facing Surrounds: **[Evenly spaced, Douglas fir slats] [Evenly spaced pine slats] [Evenly spaced cedar slats] [Redwood panels] [Evenly spaced redwood slats] [Teak panels] [Evenly spaced teak slats] [Match benches]** <Insert wood type and description>.
- F. Fiberglass Facing Surrounds: Molded fiberglass shape.
- G. Plastic Facing Surrounds: **[Molded HDPE shape] [Evenly spaced HDPE slats] [Evenly spaced, recycled HDPE slats] [Match benches]** <Insert plastic type and description>.
- H. Support Frames: **[Steel] [Galvanized steel]**; welded.
- I. Trash Receptacles:
1. Receptacle Shape and Form: **[Round cylinder] [Round cylinder with tapered funnel top] [Round, tapered column] [Square column] [Rectangular column] [As indicated]** <Insert shape and form>; with opening for depositing trash in **[lid or top] [side of lid or top] [receptacle side]**.
 2. Lids and Tops: **[Matching facing panels] [Aluminum] [Steel] [HDPE] [Recycled HDPE]** <Insert material and description> secured by cable or chain, hinged, swiveled, or permanently secured.
 3. Inner Container: **[Aluminum] [Galvanized steel sheet] [Perforated-metal] [Fiberglass] [Rigid plastic]** container with **[drain holes] [lift-out handles]**; designed to be removable and reusable.

4. Capacity: Not less than **[22 gal.] [28 gal.] [30 gal.] [32 gal.] [40 gal.] [55 gal.]** <Insert capacity>.
- J. Aluminum Finish: **[Mill finish] [Color coated]**.
 1. Color: **[As indicated by manufacturer's designation] [Match Architect's samples] [As selected by Architect from manufacturer's full range] [As indicated on a site furnishing schedule]** <Insert description>.
- K. Steel Finish: **[Galvanized and] [color] [PVC-color]** coated.
 1. Color: **[As indicated by manufacturer's designation] [Match Architect's samples] [As selected by Architect from manufacturer's full range] [As indicated on a site furnishing schedule]** <Insert description>.
- L. Stainless-Steel Finish: **[Dull Satin No. 6]** <Insert description>.
- M. Wood Finish: **[Unfinished] [Factory-applied transparent finish] [Factory-applied stain and transparent finish] [Factory-applied opaque finish] [Manufacturer's standard finish]**.
 1. Stain: **[Manufacturer's standard]** <Insert stain type and color>.
- N. **[Fiberglass] [HDPE]** Color: **[As indicated by manufacturer's designation] [Match Architect's samples] [As selected by Architect from manufacturer's full range] [As indicated on a site furnishing schedule]** <Insert description>.

2.6 PLANTERS

- A. Manufacturers: Subject to compliance with requirements of the FP&C Landscape Project Manager, provide products by one of the following:
 1. FairWeather Site Furnishings.
 2. Fiberglass Engineering Company.
 3. Fibrex Group Inc. (The).
 4. Gardenside Ltd.
 5. Huntco Supply, LLC.
 6. Keystone Ridge Designs, Inc.
 7. Sitecraft.
- B. Aluminum Facing Surrounds: **[Aluminum sheet] [Perforated aluminum sheet] [Grid in tubular frame] [Evenly patterned, parallel flat aluminum straps, bars, or tubular shapes] [Match benches]** <Insert material and description>.
- C. Steel Facing Surrounds: **[Steel sheet] [Perforated-steel sheet] [Evenly patterned, parallel flat steel straps, bars, or tubular shapes] [Evenly patterned, parallel round steel rods, bars, or tubular shapes] [Grid in tubular frame] [Match benches]** <Insert material and description>.

- D. Stainless-Steel Facing Surrounds: **[Steel sheet] [Perforated-steel sheet] [Evenly patterned, parallel flat steel straps, bars, or tubular shapes] [Evenly patterned, parallel round steel rods, bars, or tubular shapes] [Grid in tubular frame] [Match benches] <Insert material and description>**.
- E. Wood Facing Surrounds: **[Evenly spaced, Douglas fir slats] [Evenly spaced pine slats] [Evenly spaced cedar slats] [Redwood panels] [Evenly spaced redwood slats] [Teak panels] [Evenly spaced teak slats] [Match benches] <Insert wood type and description>**.
- F. Fiberglass Facing Surrounds: Molded fiberglass shape.
- G. Plastic Facing Surrounds: **[Molded HDPE shape] [Evenly spaced HDPE slats] [Evenly spaced, recycled HDPE slats] [Match benches] <Insert plastic type and description>**.
- H. Support Frames: **[Steel] [Galvanized steel]**; welded.
- I. Planter Shape and Form: **[Round cylinder] [Round cylinder with tapered funnel top] [Round, tapered column] [Square column] [Rectangular column] [As indicated] <Insert shape and form>**.
- J. Inner Container: **[Aluminum] [Galvanized steel sheet] [Fiberglass] [Rigid plastic] container [with drain holes]**.
- K. Capacity: Not less than **[22 gal.] [28 gal.] [30 gal.] [32 gal.] [40 gal.] [55 gal.] <Insert capacity>**.
- L. Installation Method: **[Freestanding] [Freestanding with weighted base] [Anchored to substrate indicated on Drawings] [Wall mounted] [Post mounted] [Mounted on elevated leg angles anchored at finished grade to substrate indicated on Drawings] [Mounted on elevated leg angles anchored below finished grade to substrate indicated on Drawings] [As indicated on Drawings]**.
- M. Aluminum Finish: Color coated.
 - 1. Color: **[As indicated by manufacturer's designation] [Match Architect's samples] [As selected by Architect from manufacturer's full range] [As indicated on a site furnishing schedule] <Insert description>**.
- N. Steel Finish: **[Galvanized and] [color] [PVC-color] coated**.
 - 1. Color: **[As indicated by manufacturer's designation] [Match Architect's samples] [As selected by Architect from manufacturer's full range] [As indicated on a site furnishing schedule] <Insert description>**.
- O. Stainless-Steel Finish: **[Dull Satin No. 6] <Insert description>**.
- P. Wood Finish: **[Unfinished] [Factory-applied transparent finish] [Factory-applied stained and transparent finish]**.
 - 1. Stain: **<Insert stain type and color.>**

Q. [Fiberglass] [HDPE] Color: [As indicated by manufacturer's designation] [Match Architect's samples] [As selected by Architect from manufacturer's full range] [As indicated on a site furnishing schedule] <Insert description>.

1. Finish: [Smooth] [Textured].

2.7 FABRICATION

- A. Metal Components: Form to required shapes and sizes with true, consistent curves, lines, and angles. Separate metals from dissimilar materials to prevent electrolytic action.
- B. Welded Connections: At exposed connections, finish surfaces smooth and blended so no roughness or unevenness shows after finishing and welded surface matches contours of adjoining surfaces.
- C. Pipes and Tubes: Form simple and compound curves by bending members in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of handrail and railing components.
- D. Preservative-Treated Wood Components: Complete fabrication of treated items before treatment if possible. If cut after treatment, apply field treatment complying with AWPA M4 to cut surfaces.
- E. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burrs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.
- F. Factory Assembly: Assemble components in the factory to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.
- B. Post Setting: Set cast-in support posts in concrete footing plumb or at correct angle and aligned and at correct height and spacing.
- C. Posts Set into Voids in Concrete: Form or core-drill holes for installing posts in concrete to depth recommended in writing by manufacturer of site furnishings and fill annular space between post and concrete with [non-shrink, nonmetallic grout] [or] [anchoring cement], mixed and placed to comply with anchoring material manufacturer's written instructions.

- D. Pipe Sleeves: Use steel pipe sleeves preset and anchored into concrete for installing posts. After posts have been inserted into sleeves, fill annular space between post and sleeve with **[non-shrink, non-metallic grout]** [or] **[anchoring cement]**, mixed and placed to comply with anchoring material manufacturer's written instructions.

END OF SECTION 129300