

SECTION 129300 - SITE FURNISHINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Bench (B1, B2 and B3)
 2. Bollard
 3. Bike rack
 4. Litter and recycle receptacle
 5. Planters (PL1, PL2, PL3)
 6. Artificial Turf
 7. Grill
 8. SS Sink with SS cover
 9. Fire Pit
 10. Drinking water fountain
 11. Trench Drain Cover / Grate
 12. Area Drain Cover / Grate

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each color and texture specified.
- C. Samples for Initial Selection: For units with factory-applied finishes.
- D. Samples for Verification: For each type of exposed finish, not less than 6-inch-long linear components and 4-inch-square sheet components.
- E. Product Schedule: For site furnishings. Use same designations indicated on Drawings.
- F. Shop Drawings: Submit manufacturer's shop drawings, including plans and elevations, indicating overall dimensions and materials.

1.3 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For site furnishings.
1. Wood Preservative Treatment: Include certification by treating plant stating type of preservative solution and pressure process used, net amount of preservative retained, and compliance with applicable standards.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For site furnishings to include in maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer regularly engaged in manufacture of site furnishings since last 25 years. Provide minimum five similar reference projects with direct contact information.
- B. Product Support: Products are supported with complete engineering drawings.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Bench Replacement Slats: No fewer than 10 full-size units for each size indicated.
 - 2. Trash Receptacle Inner Containers: Five full-size units for each size indicated, but no fewer than two units.
 - 3. Anchors: 15 of each size.
 - 4. IPE slats – 10 of each size

PART 2 - PRODUCTS

2.1 BENCH (B1, B2 and B3)

B1

- A. Manufacturer: Victor Stanley, <https://www.victorstanley.com/product/eva/>
- B. Type: Eva with back and IPE wood slats
- C. Color: Black (submit RAL color chart for final selection)
- D. Installation Method: Mounted onto pavers (through bolt to concrete topping slab)

B2

- E. Manufacturer for wood top seats: ID Created, <https://idcreated.com/products/seating/diamante-wood-seats>
- F. Type: Diamante wood seats with no back
- G. Wood: Oil treated Jatoba
- H. Installation Method: Mounted onto precast bench, refer to contract drawings

- I. Precast concrete for bench: white color with light acid etch – submit samples showing color & finish
- J. Manufacturer: Southside Precast
B3
- K. Wood: Oil treated Jatoba or IPE
- L. Custom size and length
- M. Installation Method: Mounted into planter wall, refer to contract drawings. Submit shop drawings and signed & sealed structural drawings.

2.2 BOLLARD

- A. Manufacturer: Calpipe Bollards, <http://www.calpipebollards.com/architectural/heritage-decorative-covers/>
- B. Type: Heritage decorative covers
- C. Size: 5” dia
- D. Color: Black powder coat (submit RAL colors for final selection)
- E. Installation Method: Embedded in concrete per manufacturer’s guidelines and structural engineer’s drawings

2.3 BIKE RACK

- A. Manufacturer: Landscape Forms, <https://www.landscapeforms.com/en-US/product/Pages/Ride-Bike-Rack.aspx>
- B. Type: Ride
- C. Color: Black (submit RAL color chart for final selection)
- D. Installation Method: Cast in concrete

2.4 LITTER AND RECYCLE RECEPTACLE

- A. Manufacturer: Victor Stanley
- B. Type: Sage SGE-36SA with perforated panels
- C. Capacity: 36 gallons with plastic liner
- D. Color: Black (submit RAL color chart for final selection)

- E. Installation Method: Freestanding or installed in concrete/ pavers – refer to contract drawings.
- F. Contractor to submit order form as part of submittal for landscape architect to select accessories

2.5 PLANTERS (PL1, PL2)

- A. Manufacturer: ORE Planters <https://ore.design/>.
- B. Provide drainage holes at the bottom, adjustable feet
- C. Installation Method: Freestanding with Mona water reservoir system by Mona Plant Systems or approved equal. Quantity of links to be determined by manufacturer, provide shop drawings showing the same.

PL1

- A. Model: Cube
- B. Size: 1002
- C. Color: Charcoal grey

PL2

- A. Model: Mid Rectangle
- B. Size: 1005
- C. Color: Charcoal grey

PL3 (group)

- D. Model: Capsule + Cube + Column
- E. Size: 1209 + 1001 + 1008
- F. Color: Charcoal grey

2.6 ARTIFICIAL TURF

1. Manufacturer: www.xgrass.com.
2. Style: Super Lawn Xtreme with dura flow backing, fiber type omega and pile height 2 1/8"
3. Infill: Envirofill
4. Color: Blend
5. Thatch: Brown
6. Padding: 1" minimum SofPad

7. To be compliant with local weather and building codes including wind lift. Manufacturer to provide details and assembly based on project roof section.

2.7 GRILL

- A. Manufacturer: Sunstone Metal Products, www.sunstonemetalproducts.com.
- B. Product: 5 burners with lights 42", stainless steel, Infrared
- C. Item No. RUBY5BIR-Ruby 5 burner Pro-sear 42" w/IR with matching SS cart (46" Sunstone gas grill base cabinet SAC46GLPCD) for freestanding grill with adjustable legs and matching trim kit.
- D. Confirm with manufacturer size of opening for the grill in the counter at the time of ordering and field verify dimensions.

2.8 SS SINK WITH SS COVER

- A. Manufacturer: Just Manufacturing, SS Single bowl, <https://www.justsinks.com>, 847-678-5151
- B. Model: SL-ADA-2225-A-GR-M drop in single bowl, 5.5" deep bowl
- C. ADA compliant
- D. Finish: SS Polished to a hand-blended JUST finish, with highlighted bowl rim, 18-gauge, Type 316
- E. Sink Cover: Type 316 removable cover to fit SL-ADA-2225-A-GR-M sink
- F. Confirm with manufacturer size of opening for the sink in the counter at the time of ordering and field verify dimensions.

2.9 FIRE PIT

- A. Refer to contract drawings for details.
- B. Manufacturer: Ore.design, <https://ore.design/products/cylinder-fire-pit/>
- C. Model: Cylinder Fire Pit 4014 with granite top
- D. Glass enclosure/surround around the fire pit
- E. Fire pit lid
- F. Lava rocks – black lava rock
- G. Electronic pilotless ignition system

- H. Finish: Charcoal grey
- I. Metal spark arrestor on top of glass enclosure to meet code
- J. Emergency shut off to be provided per code
- K. Fire pit to comply with all local and building codes

2.10 DRINKING WATER FOUNTAIN

- A. Manufacturer: Haws
- B. Model # 3202G Barrier free
- C. Color: Silver
- D. ADA compatible drinking water fountain

2.11 TRENCH DRAIN COVER / GRATE

- A. Manufacturer: Iron Smith
- B. Model: 4" and 8" wide
- C. ADA complaint and heel-proof
- D. Finish: Aluminum
- E. Refer to MEP for all drain body specs and details.

2.12 AREA DRAIN COVER / GRATE

- A. Manufacturer: Urban Accessories
- B. Model: OPCB, 8" square
- C. Size: 8" square, to be ADA compliant
- D. Finish: Brush Aluminum
- E. Refer to MEP for all drain body specs and details.

2.13 MATERIALS

- A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated; free of surface blemishes and complying with the following:
 - 1. Rolled or Cold-Finished Bars, Rods, and Wire: ASTM B 211.

2. Extruded Bars, Rods, Wire, Profiles, and Tubes: ASTM B 221.
 3. Structural Pipe and Tube: ASTM B 429.
 4. Sheet and Plate: ASTM B 209.
 5. Castings: ASTM B 26.
- B. Steel and Iron: Free of surface blemishes and complying with the following:
1. Plates, Shapes, and Bars: ASTM A 36.
 2. Steel Pipe: Standard-weight steel pipe complying with ASTM A 53, or electric-resistance-welded pipe complying with ASTM A 135.
 3. Tubing: Cold-formed steel tubing complying with ASTM A 500.
 4. Mechanical Tubing: Cold-rolled, electric-resistance-welded carbon or alloy steel tubing complying with ASTM A 513, or steel tubing fabricated from steel complying with ASTM A 1011 and complying with dimensional tolerances in ASTM A 500; zinc coated internally and externally.
 5. Sheet: Commercial steel sheet complying with ASTM A 1011.
 6. Expanded Metal: Carbon-steel sheets, deburred after expansion, and complying with ASTM F 1267.
 7. Malleable-Iron Castings: ASTM A 47, grade as recommended by fabricator for type of use intended.
 8. Gray-Iron Castings: ASTM A 48, Class 200.
- C. Stainless Steel: Free of surface blemishes and complying with the following:
1. Sheet, Strip, Plate, and Flat Bars: ASTM A 666.
 2. Pipe: Schedule 40 steel pipe complying with ASTM A 312.
 3. Tubing: ASTM A 554.
- D. Anchors, Fasteners, Fittings, and Hardware: Stainless steel Manufacturer's standard, corrosion-resistant-coated or non-corrodible materials; commercial quality, tamperproof, vandal and theft resistant, concealed, recessed, and capped or plugged.
1. Angle Anchors: For inconspicuously bolting legs of site furnishings to below-grade substrate; one per leg.
 2. Antitheft Hold-Down Brackets: For securing site furnishings to substrate; two per unit extent as indicated on Drawings.
- E. Non-shrink, Nonmetallic Grout: Premixed, factory-packaged, non-staining, noncorrosive, nongaseous grout complying with ASTM C 1107; recommended in writing by manufacturer, for exterior applications.
- F. 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.
- G. Galvanizing: Where indicated for steel and iron components, provide the following protective zinc coating applied to components after fabrication:

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, ASTM A 153, or ASTM A 924.

2.14 WOOD-PRESERVATIVE-TREATED MATERIALS

- A. Preservative Treatment: Pressure-treat wood according to AWPA U1 and the following:
 1. Use preservative chemicals acceptable to authorities having jurisdiction and containing no arsenic or chromium. Use chemical formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.
 2. Kiln-dry lumber and plywood after treatment to a maximum moisture content, respectively, of 19 and 15 percent. Do not use materials that are warped or do not comply with requirements for untreated materials.

2.15 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: Weld connections continuously. Weld solid members with full-length, full-penetration welds and hollow members with full-circumference welds. 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.

2.16 GENERAL FINISH REQUIREMENTS

- A. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.17 ALUMINUM FINISHES

- A. Baked-Enamel, Powder-Coat Finish: Manufacturer's standard, baked, polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

2.18 STEEL AND GALVANIZED-STEEL FINISHES

- A. Baked-Enamel, Powder-Coat Finish: Manufacturer's standard, baked, polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.
- B. PVC Finish: Manufacturer's standard, UV-light stabilized, mold-resistant, slip-resistant, matte-textured, dipped or sprayed-on, PVC-plastisol finish, with flame retardant added; complying with coating manufacturer's written instructions for pretreatment, application, and minimum dry film thickness.

2.19 IRON FINISHES

- A. Baked-Enamel, Powder-Coat Finish: Manufacturer's standard, baked, polyester, powder-coat finish complying with finish manufacturer's written instructions for surface preparation, including pretreatment, application, baking, and minimum dry film thickness.

2.20 STAINLESS-STEEL FINISHES

- A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
- B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
 - 1. Run directional finishes with long dimension of each piece.
 - 2. Dull Satin Finish: No. 6

PART 3 - EXECUTION

3.1 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 of the Work.
- B. Notify architect of conditions that would adversely affect installation or subsequent use.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 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. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.
- C. Install site furnishings level, plumb, true, and securely anchored and positioned at locations indicated on Drawings.
- D. Finish and repair any damages caused to finish or product in accordance with manufacturer's instructions and as approved by Landscape Architect.
- E. Component Damage: Remove and replace damaged components that cannot be successfully repaired as determined by Landscape Architect.
- F. Clean products promptly after installation in accordance with manufacturer's instructions. Do not use harsh cleaning materials or methods that could damage finish.
- G. Post Setting: 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.
- H. 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 3/4 inch larger than OD of post. Clean holes of loose material, insert posts, and fill annular space between post and concrete with non-shrink, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions, with top smoothed and shaped to shed water.
- I. 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, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions, with top smoothed and shaped to shed water.

END OF SECTION