

SECTION 129300 - SITE FURNISHINGS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, Division 00 and Division 01 Specifications Sections, apply to this Section.

1.02 SUMMARY

- A. Section Includes:
 - 1. Alternate #5 - Metal benches.
 - 2. Alternate #6 - Concrete seating elements.
 - 3. Bicycle racks.
 - 4. Alternate #5 - Trash receptacles.
 - 5. Flagpoles.
 - 6. Traffic signage.
- B. Related Requirements:
 - 1. Section 033000 "Cast-in-Place Concrete" for installing pipe sleeves cast in concrete footings.
 - 2. Section 312001 "Site Grading" for excavation for installing concrete footings.
 - 3. See drawings for Precast Wall System specifications and details. Install all as per sealed engineering drawings and manufacturer's specifications /details /recommndations.
 - 4. See drawings for Guard Rail specifications and details.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each exposed product and for each color and texture specified.
- C. Product Schedule: For site furnishings..

1.04 CLOSEOUT SUBMITTALS

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

1.05 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. Trash Receptacle Inner Containers: No fewer than two extra units.

PART 2 - PRODUCTS

2.01 METAL BENCHES

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Victor Stanley Inc. - "Steelsites RB Series Model RB – 28", or a comparable product by one of the following:
1. BRP Enterprises Inc.
 2. DuMor Inc.
 3. Landscape Structures Inc.
 4. Maglin Furniture Systems Ltd.
- B. Frame: Steel.
- C. Seat and Back:
1. Material:
 - a. Painted Steel: Evenly spaced, parallel flat straps or bars.
 2. Seat Height: 17 inches.
 3. Seat Surface Shape: Flat.
 4. Overall Height: 31 ¼ inches.
 5. Overall Width: 6 feet.
 6. Overall Depth: 26 inches.
 7. Arms: Two, one at each end.
 - a. Arm Material: Match frame.
- D. Steel Finish: Galvanized and color PVC-color coated.
1. Color: Black.

2.02 ALTERNATE #6 - ONCRETE SEATING ELEMENTS

- A. Concrete Seating Element #1 - Basis-of-Design Product: Subject to compliance with requirements, provide Wausau Made. - "TF3528", or approved equal.
1. Material: Concrete.
 2. Reinforcing: 1/4" diameter steel rebar.
 3. Size: 25" diameter x 15" high.
 4. Shape: Circle.
 5. Finish: Smooth stained concrete.
 6. Color: Red, Orange, Yellow, or Soulard Green, as indicated.
- B. Concrete Seating Element #2 - Basis-of-Design Product: Subject to compliance with requirements, provide Wausau Made. - "TF5100", or approved equal.
1. Material: Concrete.
 2. Reinforcing: 3/8" diameter steel rebar.
 3. Size: 48" x 24" x 14".
 4. Shape: Half-Circle.
 5. Weight: 650 lbs.
 6. Finish: Smooth stained concrete.

7. Color: Red, Orange, Yellow, or Soulard Green, as indicated.
- C. Concrete Seating Element #3 - Basis-of-Design Product: Subject to compliance with requirements, provide Wausau Made. - "TF5116", or approved equal.
1. Material: Concrete.
 2. Reinforcing: 3/8" diameter steel rebar.
 3. Size: 74" x 18" x 16".
 4. Shape: Arched rectangle.
 5. Weight: 1,000 lbs.
 6. Finish: Smooth stained concrete.
 7. Color: Red, Orange, Yellow, or Soulard Green, as indicated.
- D. Concrete Seating Element #4 - Basis-of-Design Product: Subject to compliance with requirements, provide Wausau Made. - "TF5119", or approved equal.
1. Material: Concrete.
 2. Reinforcing: 3/8" diameter steel rebar.
 3. Size: 36"x36"x18".
 4. Shape: Square.
 5. Weight: 825 lbs.
 6. Finish: Smooth stained concrete.
 7. Color: Red, Orange, Yellow, or Soulard Green, as indicated.
- E. Concrete Seating Element #5 - Basis-of-Design Product: Subject to compliance with requirements, provide Wausau Made. - "TF5206", or approved equal.
1. Material: Concrete.
 2. Reinforcing: 1/4" diameter steel rebar.
 3. Size: 19"x17"x18"
 4. Shape: Square.
 5. Weight: 350 lbs.
 6. Finish: Smooth stained concrete.
 7. Color: Red, Orange, Yellow, or Soulard Green, as indicated.
- F. Concrete Seating Element #6 - Basis-of-Design Product: Subject to compliance with requirements, provide Wausau Made. - "TF5204", or approved equal.
1. Material: Concrete.
 2. Reinforcing: 1/4 diameter steel rebar.
 3. Size: 15" diameter x 13".
 4. Shape: Circle.
 5. Weight: 155 lbs.
 6. Finish: Smooth stained concrete.
 7. Color: Red, Orange, Yellow, or Soulard Green, as indicated.
- G. Concrete Seating Element #7 - Basis-of-Design Product: Subject to compliance with requirements, provide Wausau Made. - "TF5119", or approved equal.
1. Material: Concrete.
 2. Reinforcing: 3/8" diameter steel rebar.
 3. Size: 37"x17"x18".
 4. Shape: Rectangle.
 5. Weight: 700 lbs.
 6. Finish: Smooth stained concrete.

7. Color: Red, Orange, Yellow, or Soulard Green, as indicated.

2.03 BICYCLE RACKS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Kay Park Recreation Corp. – “Model #5202C, “A” Frame Vertical Style Bike Rack” or a comparable product by one of the following:
 1. DuMor, Inc.
 2. BRP Enterprises, Inc.
 3. Canterbury International.
 4. Creative Pipe, Inc.
 5. GameTime; a PlayCore, Inc. Company.
 6. Maglin Furniture Systems Ltd.
- B. Bicycle Rack Construction:
 1. Frame: Galvanized Schedule 40 Steel Pipe.
 - a. Pipe OD: Not less than 1-5/8 inches.
 2. Pickets: Galvanized Schedule 40 Steel Pipe
 - a. Pipe OD: Not less than 1 inch.
 3. Style: Double-side parking.
 - a. Overall Height: 36 inches.
 - b. Overall Length: 20 feet.
 - c. Capacity: Designed to accommodate no fewer than 36 bicycles.
 4. Installation Method: Surface mounts, per detail on drawing.
- C. Steel Finish: Galvanized Color coated.
 1. Color: Black.

2.04 ALTERNATE #5 - TRASH RECEPTACLES

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Victor Stanley Inc. “Steelsites RB Series Model RB – 36” or a comparable product by one of the following:
 1. BRP Enterprises Inc.
 2. DuMor Inc.
 3. Landscape Structures Inc.
 4. Maglin Furniture Systems Ltd.
- B. Steel Facing Surrounds: Evenly patterned, parallel flat steel bars to match benches.
- C. Support Frames: Steel; welded.
- D. Trash Receptacles:
 1. Receptacle Shape and Form: Round cylinder with tapered funnel top; with opening for depositing trash in lid or top.
 2. Lids and Tops: Steel secured by cable or chain, hinged, swiveled, or permanently secured.

- a. Description: Dome top.
 - 3. Receptacle Height: 42 inches.
 - 4. Overall Width: 28 inches.
 - 5. Inner Container: Rigid plastic container with drain holes and lift-out handles; designed to be removable and reusable.
 - 6. Disposable Liners: Provide receptacle designed to accommodate disposable liners.
 - 7. Capacity: Not less than 36 gal.
 - 8. Service Access: Removable lid or top; inner container and disposable liner lift or slide out for emptying.
- E. Steel Finish: Galvanized and color PVC-color coated.
 - 1. Color: Black.

2.05 30' LIGHTED FLAGPOLE

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Flag Pole Warehouse "Illuminator Architectural Series – ILIH30" or a comparable product by one of the following:
 - 1. American Flagpole; a Kearney-National Inc. company.
 - 2. Concord Industries, Inc.
 - 3. U.S. Flag & Flagpole Supply, LP.
- B. Flagpole Construction, General: Construct flagpoles in one piece if possible with aluminum flash collar.
- C. Aluminum Flagpoles: Provide tapered flagpoles fabricated from seamless extruded tubing complying with ASTM B 241/B 241M, Alloy 6063.
- D. Wall thickness: 0.188 inch.
- E. Exposed Height: 30 feet.
- F. Butt diameter: 6 inches.
- G. Top diameter: 3.5 inches.
- H. Finish: 120 grit satin finish.
- I. Internal Halyard, Winch System: Manually operated winch with control stop device and removable handle, stainless-steel cable halyard, and concealed revolving truck assembly with plastic-coated counterweight and sling. Provide flush access door secured with cylinder lock. Finish truck assembly to match flagpole.
 - 1. Halyard Flag Snaps: Provide two stainless-steel swivel snap hooks per halyard.
 - 2. Provide with neoprene or vinyl covers.
- J. Revolving Finish Truck Assembly with Internal Lighting (Down lit design): Revolving non-fouling internal halyard truck, cast aluminum body, 26 stainless steel ball bearings, and 2-1/2" diameter plated steel sheave.

1. Lighting: Manufacturers standard 12 Volt LED fixture and power supply.
2. Transformer: Manufacturers standard dual primary 115/230 VAC.

2.06 TRAFFIC SIGNAGE

- A. Handicap parking signs to be per detail drawings and per ODOT Item 630, flat sheet with Type 2P posts, per ODOT standard construction drawing TC-41.20.
- B. Stop signs to be Ohio Manual of Uniform Traffic Control Devices Item R1-1, per ODOT Construction and Material Specification Item 630, flat sheet with Type 2P posts, per ODOT Standard Construction Drawing TC-41.20.
- C. No Smoking signs to be same as Ohio Manual of Uniform Traffic Control Devices Item R-55, per ODOT Construction and Material Specification Item 630, flat sheet with Type 2P posts, and per ODOT Standard Construction Drawing TC-41.20, except text to read: "NO SMOKING OR SMOKELESS TOBACCO IN ANY SCHOOL BUILDING OR ON ANY SCHOOL GROUNDS IN ACCORDANCE WITH STATE LAW."

2.07 MATERIALS

- A. Anchors, Fasteners, Fittings, and Hardware: Stainless steel; commercial quality, tamperproof, vandal and theft resistant.
- B. Nonshrink, Nonmetallic Grout: Premixed, factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M; recommended in writing by manufacturer, for exterior applications.

2.08 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. 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.
- E. Factory Assembly: Factory assemble components to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

2.09 GENERAL FINISH REQUIREMENTS

- A. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. 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.

2.10 STEEL AND GALVANIZED-STEEL FINISHES

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

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 of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- 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 at locations indicated on Drawings.
- D. 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.
- E. 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 nonshrink, 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 129300

THIS PAGE INTENTIONALLY LEFT BLANK