SECTION 32 33 00 - SITE FURNISHINGS

1. GENERAL
	1. ADMINISTRATIVE REQUIREMENTS
		1. Pre-Installation Conference:
			1. Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder] installer, and related trades.
			2. Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.
	2. SUBMITTALS
		1. Action Submittals:
			1. Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.
			2. Product Data: Manufacturer’s descriptive data and product attributes.
			3. Samples: [Selection samples.] [Verification samples.]
		2. Closeout Submittals:
			1. Operation and Maintenance Data.
	3. WARRANTY
		1. Manufacturer’s standard warranty against failures as follows:
			1. Aluminum: Life of installation against material failure and corrosion.
			2. Recycled Plastic Lumber: 50 years against rot, splinter, decay, or structural damage directly from termites or fungal decay under normal use.
			3. Steel: 25 years against material failure and defects.
			4. Powder Coat Finishes (200 and 500 series): 10 years.
			5. Grills 5 years against material failure. Damage caused from excessive fires and improper maintenance or cleaning is not covered.
			6. Vinyl Targets, Perimeters, Wraps, and Other Products Not Listed, Including Hardware: 3 years.
			7. Fiberglass products. Model 1590 Adjustable Basketball Systems, HD Tennis Posts, and all nets & protective pads: 1 year.
			8. All Products: 1 year against defects in materials and workmanship.
2. PRODUCTS
	1. MANUFACTURERS
		1. Contract Documents are based on products by PW Athletic Manufacturing Co., 2 Industrial Dr, PO Box 1290, Salem, IL 62881; phone 866-402-2893; fax 618-548-2890; https://pwathletic.com.
		2. Substitutions: [Refer to Division 01.] [Not permitted.]
	2. BENCHES
		1. End Frame Style Benches: [Arched back with arms.] [Straight back with arms.] [Backless with arms.]
			1. End Frame Material: [Cast aluminum.] [Steel straps.]
			2. Seat [and Back] Material: [Steel straps.] [Laser-cut steel sheet.]
			3. Metal Finish: [Powder coat.] [Galvanized.]
			4. Mounting: Surface.
		2. Armless Plank Style Benches: [Plank with back.] [Plank backless.]
			1. Support Post Material: Round steel tube.
			2. Seat [and Back] Material: Recycled plastic [2x4] [3x4] planks.
			3. Metal Finish: [Powder coat.] [Galvanized.]
			4. Mounting: [In-ground.] [Surface.] [Surface with decorative escutcheon.] [Portable.]
		3. Players Style Benches: [Plank with back.] [Plank backless.]
			1. Support Post Material: Round steel tube.
			2. Seat [and Back] Material: [Recycled plastic] [Fiberglass] [2x10] [2x12] planks.
			3. Metal Finish: [Powder coat.] [Galvanized.]
			4. Mounting: [In-ground.] [Surface.] [Portable.]
	3. BIKE RACKS
		1. Style: [Arch.] [Loop.] [Inverted U-shape.] [Serpentine.] [Inverted circular loop.] [Double round loop.] [Cambridge.] [Newport.]
			1. Material: [Round steel tubing.] [Steel rods and angles.]
			2. Metal Finish: [Powder coat.] [Galvanized.]
			3. Mounting: [In-ground.] [Surface.] [Surface with [one-piece] [two-piece] decorative escutcheon.] [Portable.] [Drop-in anchor.]
	4. BOLLARDS
		1. Style: [Fixed.] [Removable.] [Locking.]
			1. Diameter (OD): [3-1/2 inch.] [4-1/2 inch.] [5-9/16 inch.]
			2. Features: [Ground sleeve.] [Locking feature for ground sleeve.] [Welded-on chain rings.]
			3. Mounting: [In-ground.] [Surface.] [Surface with decorative escutcheon.]
	5. GRILLS
		1. Style: Rotating grill box on round steel post[ with side shelf].
			1. Style: [Single-sided 20 inch wide x 15 inch deep.] [Double-sided 20 inch wide x 32 inch deep.] [Wide double-sided 26 inch wide x 36 inch deep.]
			2. Mounting: [In-ground.] [Surface.]
			3. Finish: Heat-resistant black.
	6. PICNIC TABLES
		1. Style: Freestanding, portable double-sided units with seats each side [and ADA accessible overhang on one end].
			1. Top and Seat Material: [2x10 inch extruded aluminum planks.] [Recycled plastic.] [Perforated steel]
			2. Support Frame Material: Round steel tubing.
			3. Top Finish: [Anodized.] [Powder coat.] [Galvanized.]
			4. Frame Finish: [Powder coat.] [Galvanized.]
	7. LITTER AND WASTE RECEPTACLES
		1. Style: Round steel-framed receptacles [with convex steel lids] [with rain bonnets] [with recessed ash tray] [ with domed plastic lid]; complete with 32 gallon liner.
			1. Exterior Material: [Vertical steel straps.] [Round steel rods.] [Recycled plastic 2x4 planks.]
			2. Mounting: [Surface.] [In-ground.] [Elevated.]
	8. PERSONALIZED SITE FURNISHING ACCESSORIES
		1. Engraved Plastic Planks: Engrave [back] [seat] planks where indicated.
			1. Font and Character Height: As selected from manufacturer's full range.
		2. Engraved Aluminum Plaques: Engrave plaques where indicated.
			1. Material: Aluminum sheet in manufacturer's standard thickness.
			2. Plaque Size: As selected from manufacturer's full range.
		3. Cast Bronze Plaques: Provide cast-bronze plaques where indicated
			1. Material: Cast-bronze in manufacturer's standard thickness.
			2. Plaque Size: As selected from manufacturer's full range.
			3. Character Size and Font and Background Texture: As selected from manufacturer's full range.
	9. MATERIALS
		1. Steel Materials:
			1. Steel Tubing: ASTM A1085 or A500 or A1065, cold-formed tubing.
			2. Steel Plates, Shapes, and Bars: ASTM A36/A 36M.
			3. Galvanized Steel Sheet: ASTM A653/A653M, G90 coating, either commercial or forming steel.
		2. Aluminum Materials:
			1. Castings: ASTM B26/B 26M, Alloy A356.0-T6.
			2. Extrusions: ASTM B221, alloy and temper recommended by aluminum producer and finisher.
			3. Sheet and Plate: ASTM B209, alloy and temper recommended by aluminum producer and finisher.
		3. Bronze Castings: ASTM B584, alloy recommended by manufacturer and finisher for
	10. ACCESSORIES
		1. Steel Bolts and Nuts: ASTM A325, Grade A regular hexagon-head bolts; with ASTM A563 hex nuts; and, where indicated, flat washers; hot-dip galvanized per ASTM F2329.
		2. Stainless Steel Bolts and Nuts: ASTM F593 regular hexagon-head annealed stainless steel bolts; with ASTM F594 hex nuts; and flat washers; Alloy Group 1.
		3. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.
		4. Nonshrink, Nonmetallic Grout: ASTM C 1107; recommended by manufacturer for exterior applications.
		5. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
			1. Provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended by manufacturer for exterior use.
	11. FABRICATION
		1. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
		2. Form bent metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
	12. metal FINISHES
		1. Steel: Manufacturer's [standard] [anti-graffiti] TGIC polyester powder coat, comparable in performance to AAMA 2605 coatings.
			1. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions to achieve 6 to 9 mil DFT finish coat [over a 2 to 3 mil thick zinc-rich primer].
			2. Color: [As indicated.] [As selected from manufacturer's full range.] [Match Architect's sample.] [\_\_\_\_\_.]
			3. Gloss/Sheen: Matte.
		2. Aluminum: Manufacturer's [standard] [anti-graffiti] TGIC polyester powder complying with AAMA 2604 powder coating except with a minimum 3.0 mil DFT finish coat. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.
			1. Color: [As indicated.] [As selected from manufacturer's full range.] [Match Architect's sample.] [\_\_\_\_\_.]
			2. Gloss/Sheen: [As selected.] [\_\_\_\_\_.]
		3. Anodized Aluminum: AAMA 611, [AA-M32A41, Architectural Class I Clear Anodized] [AA-M32A42/A44, Architectural Class II Color Anodized], 0.7 mil or thicker.
			1. Color: [As indicated.] [As selected from manufacturer's full range.] [Match Architect's sample.] [\_\_\_\_\_.]
3. EXECUTION
	1. INSTALLATION
		1. Comply with manufacturer's written installation instructions and recommendations and approved submittals.
		2. Set support posts [into blockouts in footings to required elevations] [on concrete foundations], aligned plumb and level, and grout in place with [nonshrink grout] [or] [anchoring cement] filling voids and column anchors.
	2. CLEANING
		1. Clean as recommended by manufacturer. Do not use materials or methods which may damage finish surfaces.
	3. SCHEDULES
		1. Benches:
			1. End Frame Benches: [\_\_\_\_] style.
				1. Model Number: [\_\_\_\_].
				2. Length: [\_\_\_\_]
				3. Color: [\_\_\_\_]
			2. [Armless Plank] [Players] Benches: [\_\_\_\_] style.
				1. Model Number: [\_\_\_\_].
				2. Length: [\_\_\_\_]
				3. Plank Color: [\_\_\_\_]
				4. [Post] [Support] Color: [\_\_\_\_]
			3. Personalized Accessories: [Engraved Plastic Planks] [Engraved Aluminum Plaques] [Cast Bronze Plaques] [Laser-cut [logo] [names] where indicated.]
		2. Bike Racks: [\_\_\_\_] style.
			1. Model Number: [\_\_\_\_].
			2. Number of Bikes: [\_\_\_\_].
			3. Color: [\_\_\_\_].
		3. Bollards:
			1. Model Number: [\_\_\_\_].
			2. Color: [\_\_\_\_].
		4. Grills:
			1. Model Number: [\_\_\_\_].
			2. Shelf: [\_\_\_\_].
		5. Tables:
			1. Model Number: [\_\_\_\_].
			2. Length: [6 foot.] [8 foot.]
			3. Color: [\_\_\_\_].
		6. Litter And Waste Receptacles:
			1. Model Number: [\_\_\_\_].
			2. Receptacle Color: [\_\_\_\_].
			3. Lid Color: [\_\_\_\_].

END OF SECTION