

## East Poplar Playground

### SECTION 116800 - PLAY EQUIPMENT (*Revised Addendum 1 – May 6, 2020*)

#### PART 1 - GENERAL

##### 1.1 RELATED DOCUMENTS

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

##### 1.2 SUMMARY

- A. Section includes freestanding and composite structure playground equipment.
- B. Related Sections:
  - 1. Section 321816.13 "Playground Protective Surfacing" for protective surfacing under and around playground equipment.

##### 1.3 DEFINITIONS

- A. Fall Height: According to ASTM F 1487, "the vertical distance between a designated play surface and the protective surfacing beneath it."
- B. HDPE: High-density polyethylene.
- C. IPEMA: International Play Equipment Manufacturers Association.
- D. LLDPE: Linear low-density polyethylene.
- E. MDPE: Medium-density polyethylene.
- F. Use Zone: According to ASTM F 1487, the "area beneath and immediately adjacent to a play structure or equipment that is designated for unrestricted circulation around the equipment and on whose surface it is predicted that a user would land when falling from or exiting the equipment."

##### 1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Initial Selection: For each type of playground equipment and structure indicated.
  - 1. Manufacturer's color charts.
  - 2. Include similar Samples of playground equipment and accessories involving color selection.

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### 1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
  - 1. Extent of surface systems and use zones for equipment.
  - 2. Critical heights for playground surfaces and fall heights for equipment.
- B. Qualification Data: For qualified Installer manufacturer, and testing agency.
- C. Product Certificates: For each type of playground equipment, from manufacturer.
- D. Warranty: Sample of special warranty.

### 1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For playground equipment and finishes to include in maintenance manuals.

### 1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm whose playground equipment components have been certified by IPEMA's third-party product certification service.
- B. Installer Qualifications: An employer of workers approved by manufacturer.
- C. Safety Standards: Provide playground equipment complying with or exceeding requirements in ASTM F 1487 and CPSC No. 325.

### 1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of playground equipment that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Structural failures.
    - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
  - 2. Warranty Period: Two years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 PLAY EQUIPMENT

- A. Play Equipment: Subject to compliance with requirements, provide products by Landscape Structures, 601 7<sup>th</sup> Street South, Delano, MN 55328, 1 (888) 438-6574, or approved equal. Local contact: Garry Helmuth, [garry@gen-rec.com](mailto:garry@gen-rec.com).
- a. Swings: ~~3-bay with 2 toddler swings, 3 belt swings, and one accessible swing.~~
    - 1) Accessible Swings – Design #4159, 5” Arch Swing with two (2) molded seat harness with proguard chains, 2 3/8” top beam, and anti-wrap swing hangers.
    - 2) Toddler Swings – Design #6144, 5” Arch Swing with two (2) Full Bucket Seats with proguard chains, 2 3/8” top beam, and anti-wrap swing hangers.
    - 3) 5-12 Swings – Design #4340, 5” Arch Swing with two (2) Belts Seats with proguard chains, 2 3/8” top beam, and anti-wrap swing hangers.
  - b. 5-12 Play Equipment: Super Netplex 8’ and 12’ towers. Color TBD. Stainless Steel Slide.
  - c. 2-5 Play Equipment: Weevos. Color TBD. Stainless Steel Slide.
- B. 6-23 Month Play Equipment: Subject to compliance with requirements, provide products by Kompan, Inc. 605 W Howard, Ln, Suite 101, Austin, TX 78753, 1-(800) 426-9788, [www.kompan.us](http://www.kompan.us), or approved equal. Local contact: Matt Burns, [matbur@kompan.com](mailto:matbur@kompan.com).
- a. M620 Play Path Under 2.
  - b. CM0003 Talk and Tumble Under 2.

### 2.2 ADD ALTERNATE FITNESS EQUIPMENT

- A. Subject to compliance with requirements, provide products by Kompan, Inc. 605 W Howard, Ln, Suite 101, Austin, TX 78753, 1-(800) 426-9788, [www.kompan.us](http://www.kompan.us), or approved equal. Local contact: Matt Burns, [matbur@kompan.com](mailto:matbur@kompan.com).
- a. Magnetic bells, suspension trainer, and multi-net link, Color TBD.

### 2.3 CAST-IN-PLACE CONCRETE

- A. Concrete Materials and Properties: Comply with requirements in Section 033000 "Cast-in-Place Concrete" to produce normal-weight, air-entrained concrete with a minimum 28-day compressive strength of 3000 psi (20.7 MPa), 3-inch (75-mm) slump, and 1-inch- (25-mm-) maximum-size aggregate.

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### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for site clearing, earthwork, site surface and subgrade drainage, and other conditions affecting performance of the Work.
  - 1. Do not begin installation before final grading required for placing protective surfacing is completed unless otherwise permitted by Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 PREPARATION

- A. Verify locations of playground perimeter and pathways. Verify that playground layout and equipment locations comply with requirements for each type and component of equipment.

#### 3.3 INSTALLATION, GENERAL

- A. General: Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Anchor playground equipment securely, positioned at locations and elevations indicated.
  - 1. Maximum Equipment Height: Coordinate installed heights of equipment and components with finished elevations of protective surfacing. Set equipment so fall heights and elevation requirements for age group use and accessibility are within required limits. Verify that playground equipment elevations comply with requirements for each type and component of equipment.
- B. Post and Footing Excavation: Excavate holes for posts and footings as indicated in firm, undisturbed or compacted subgrade soil.
- C. Post Set on Subgrade: Level bearing surfaces with drainage fill to required elevation.
- D. Post Set with Concrete Footing: Comply with ACI 301, ACI 301M for measuring, batching, mixing, transporting, forming, and placing concrete.
  - 1. Set equipment posts in concrete footing. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at the correct angle, alignment, height, and spacing.
    - a. Place concrete around posts and vibrate or tamp for consolidation. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.
  - 2. Embedded Items: Use setting drawings and manufacturer's written instructions to ensure correct installation of anchorages for equipment.

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3. Concrete Footings: Smooth top, and shape to shed water.

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Perform tests and inspections.
  1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- C. Tests and Inspections: For playground and playground equipment and components during installation and at final completion and to certify compliance with ASTM F 1487, CPSC No. 325.
- D. Prepare test and inspection reports.

END OF SECTION 116800