

INFORMATION  
MINIMUM FALL ZONE  
SURFACED WITH  
RESILIENT MATERIAL

AREA

1771 SQ.FT.

PERIMETER

309 FT.

STRUCTURE SIZE

79' 11" x 45' 7"

THIS STRUCTURE IS  
DESIGNED FOR  
CHILDREN AGE:

- 2-5 YEAR OLDS
- 5-12 YEAR OLDS

**ISO 9001:2000  
CERTIFIED  
COMPANY**

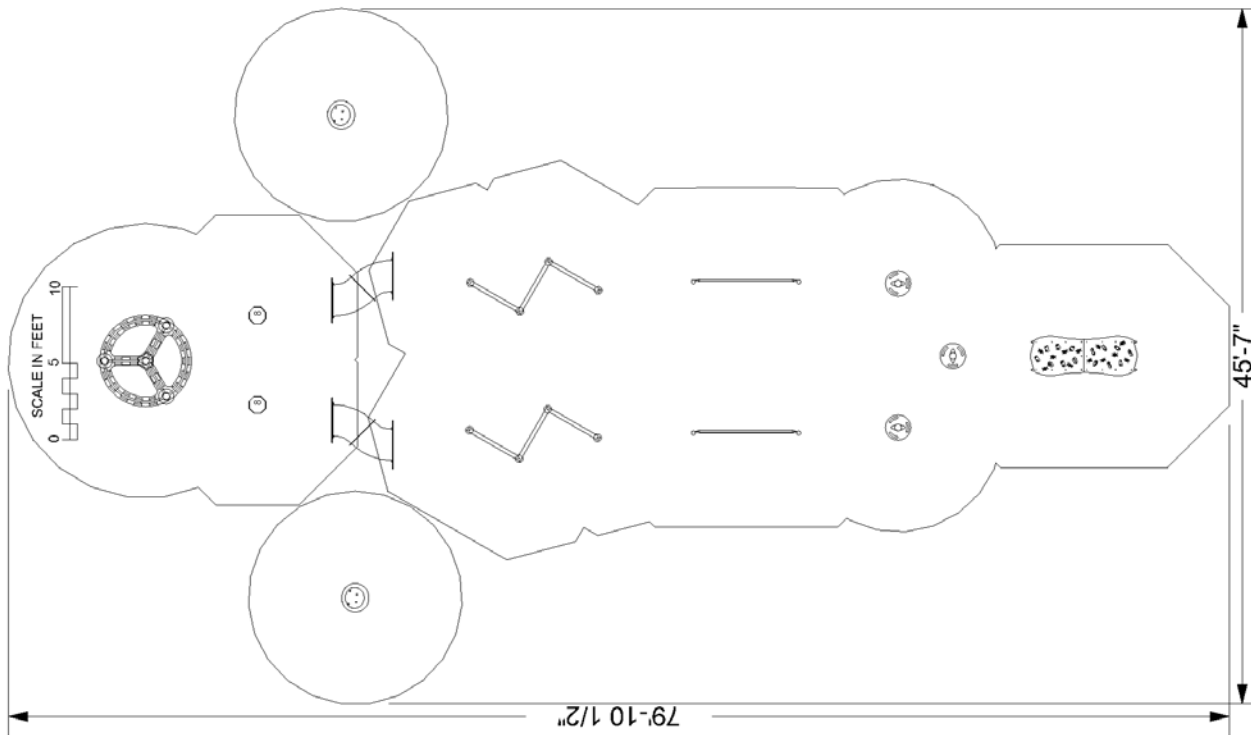


To verify product certification,  
visit [www.ipema.org](http://www.ipema.org)

The play components identified  
in this plan are IPEMA  
certified. The use and layout of  
these components conform to the  
requirements of ASTM F1487.  
To verify product certification,  
visit [www.ipema.org](http://www.ipema.org)

The space requirements shown  
here are to ASTM standards.  
Requirements for other standards  
may be different.

The use and layout of play  
components identified in this plan  
conforms to the CPSC guidelines.



**WARNING!**

ACCESSIBLE SAFETY SURFACING MATERIAL IS REQUIRED BENEATH AND  
AROUND THIS EQUIPMENT.

FOR SLIDE FALL ZONE SURFACING AREA SEE CPSC's Handbook for Public  
Playground Safety.

PLATFORM HEIGHTS ARE IN INCHES ABOVE RESILIENT MATERIAL.

**ADA ACCESSIBILITY GUIDELINE (ADAAG CONFORMANCE)**

NUMBER OF PLAY EVENTS:	15	RECD: 0
NUMBER OF ELEVATED PLAY EVENTS:	0	RECD: 0
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP:	PROVIDED: 0	RECD: 0
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY TRANSFER SYSTEM:	PROVIDED: 0	RECD: 0
NUMBER OF ELEVATED PLAY EVENTS ACCESSIBLE BY RAMP OR TRANSFER SYSTEM:	PROVIDED: 15	RECD: 0
NUMBER OF GROUND LEVEL PLAY EVENTS:	PROVIDED: 7	RECD: 0
NUMBER OF TYPES OF GROUND LEVEL PLAY EVENTS:		



SERIES: 3000, Basics, Intensity

SITE PLAN

DRAWN BY: Kari Champeau

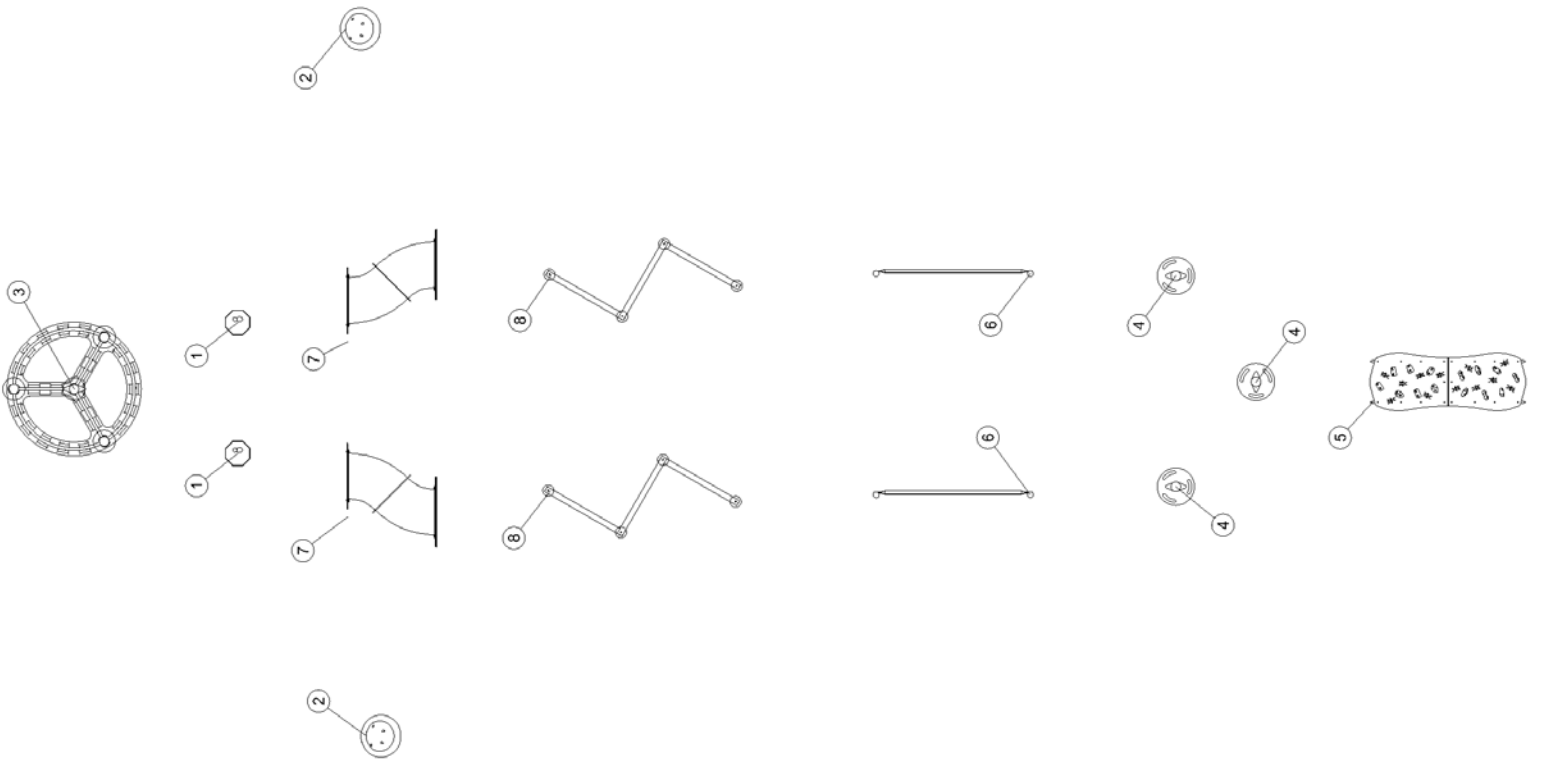
GSA Playbook

Premier Playgrounds, LLC

CPB-1447

May 13, 2009

ITEM	COMP.	DESCRIPTION
1	300-0284	SINGLE POD WALK 8-16
2	560-0441	KIDFORCE SPINNER
3	560-0442	SATELLITE POD, FS
4	560-0454	FS T BRANCH TREE CLIMBER
5	560-0455	FS ANT HILL
6	560-0456	FS TIGHT ROPE CLIMBER
7	580-0259	WACKY WORM S CRAWL TUNNEL
8	590-0386	Z BALANCE BEAM



May 13, 2009

SERIES: 3000, Basics, Intensity  
 COMPONENT PLAN  
 DRAWN BY: Kari Champeau

GSA Playbook

Premier Playgrounds, LLC  
 CPB-1447

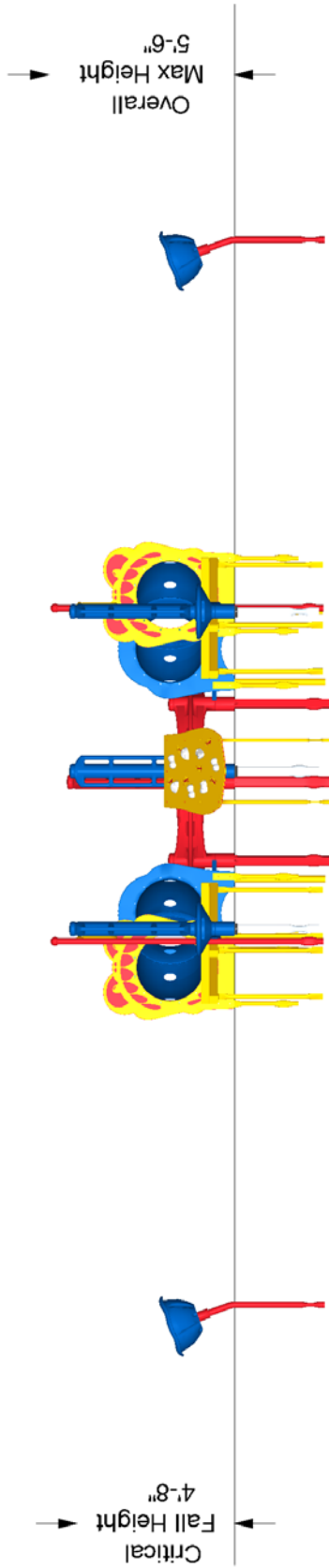


SERIES: 3000, Basics, Intensity  
ELEVATION PLAN  
DRAWN BY: Kari Champeau

GSA Playbook

Premier Playgrounds, LLC  
CPB-1447

BCI Burke Company, LLC PO Box 549 Fond du Lac, Wisconsin 54936-0549 Telephone 920-921-9220



The protective surfacing for this design must accommodate the critical fall height.

May 13, 2009



# Proposal # CPB-1447

May 13, 2009  
2009 Pricing

**Proposal Prepared for:**

**Project Location:**  
GSA Playbook

**Proposal Prepared by:**  
Premier Playgrounds, LLC  
P. O. Box 549  
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Component No.	Description	Qty.	User Cap.	Ext. User Cap.	Weight	Ext. Weight
3000						
300-0284	SINGLE POD WALK 8-16	2	1	2	26	53
Burke Basics						
560-0442	SATELLITE POD, FS	1	9	9	209	209
560-0454	FS 1 BRANCH TREE CLIMBER	3	2	6	51	153
560-0455	FS ANT HILL	1	6	6	140	140
560-0456	FS TIGHT ROPE CLIMBER	2	4	8	79	158
580-0259	WACKY WORM S CRAWL TUNNEL	2	2	4	100	200
590-0386	Z BALANCE BEAM	2	4	8	80	160
Intensity						
560-0441	KIDFORCE SPINNER	2	1	2	44	88
			Total User Capacity:	45		
			Total Weight:	1,161 lbs.		

Information is relative to the May 13 2009 4:35AM database.

# **SPECIFICATIONS FOR BCI BURKE PLAY STRUCTURES**

## **SECTION 02882**

### **Recreational Facility Playgrounds**

**These specifications were current at the time of publication but are subject to change at any time without notice. Please confirm the accuracy of these specifications with the manufacturer and/or distributor prior to installation.**

#### **PART 1 GENERAL**

##### **1.01 Section Includes**

- A. Installation of a playground structure model [\_\_\_\_\_] as shown on the plans and herein specified.

##### **1.02 Related Sections**

- A. Section 02100 - Site Preparation.
- B. Section 02200 - Earthwork.
- C. Section 02790 - Accessible Safety Surfacing System.

##### **1.03 Quality Assurance**

- A. Installer Qualifications - An experienced installer familiar with local building codes and with the latest safety guidelines, who has completed installation of playground structures similar in material, design, and extent to that indicated for this project, and whose work has resulted in construction with a record of successful in-service performance.
- B. Acceptable Manufacturers - Provide play structure/components as manufactured by BCI Burke Company, LLC, P.O. Box 549, 600 Van Dyne Road, Fond du Lac, Wisconsin 54936-0549, Tel: (920) 921-9220, Fax: (920) 921-9566, Toll Free: 1-800-266-1250, www.bciburke.com.
- C. Product Options - Drawing indicates size, components and dimensional requirements of playground structure and is based on the specific system indicated.

##### **1.04 Submittals**

- A. Product Data: Include physical characteristics such as materials, dimensions and finish.
- B. Shop Drawings: Show assembly and installation details.
- C. Samples for Verification: Color selections for [upright posts], [steel accessories], [freestanding panels & signs], [swings], [Kid Koasters™], [Recycled Upright Posts], [plastic components], [other].
- D. Warranty: Include manufacturer's standard warranty.

##### **1.05 References**

- A. ASTM F1487 Standard Consumer Safety Performance Specification for Playground Equipment for Public use CAN/CSA-Z614 Children's Playspaces and Equipment.

- B. ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
- C. U.S. Consumer Products Safety Commission Handbook for Public Playground Safety.
- D. Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Play Areas, amended November 20, 2000.

### **1.06 Delivery, Storage and Handling**

- A. Inspect all components on delivery to ensure that no damage occurred during shipping or handling. Materials shall be stored in original undamaged packaging in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism, and theft until ready for installation. Inspect components prior to installation.

## **PART 2 MATERIALS**

### **2.01 FS 1 BRANCH TREE CLIMBER**

- A. RING SPACER: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction and a textured surface.
- B. RING CAP: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction and a textured surface.
- C. SLEEVE: Linear, low density rotationally molded, U.V. stabilized, polyethylene, .250" thick, single wall construction. Textured outside surface.
- D. HAND HOLD: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction and a textured surface.
- E. 3 SQ X 11 GA X 81 UPRIGHT: 3" square x 11 GA galvanized steel.
- F. COLLAR 4 SQUARE X 1: 4" sq. x 1" x .250" wall aluminum extruded tube finished with a baked on black powder coating.

### **2.02 FS ANT HILL**

- A. FORMED PLATE 125 DEGREE x: 10 GA galvanized steel plate finished with a baked on powder coating.
- B. PANEL, ANT CRAWL: 1/2" co-extruded HDPE.
- C. SUPPORT, ANT CRAWL: One piece all welded construction consisting of 1.315" OD x 12 GA galvanized steel tubing, and 10 GA galvanized steel cap. Finished with a baked on powder coating.
- D. 14 ROCK CLIMBING HOLDS: Molded professional grade rock climbing hold with stainless steel washers.

### **2.03 FS TIGHT ROPE CLIMBER**

- A. FORMED TUBE 1.660 x 90": Formed 1.660" OD x 13 GA galvanized steel tubing finished with PVC coating.
- B. ENCLOSURE LINK BEAM: One piece all welded construction consisting of 1.660" OD x 12 GA and 1.029" OD x 14 GA galvanized steel tubing. Finished with a baked on powder coating.
- C. 2 3/8 x 96, TIGHT ROPE CL: Assembly consisting of 2 3/8" OD x 12 GA galvanized steel tubing, cast aluminum cap, and 1/8" x 15/32" aluminum drive rivets. Tubing and cap finished with a baked on powder coating.

#### **2.04 KIDFORCE SPINNER**

- A. TUBE, 1.900 x 2 7/16": 1.900" OD x 11 GA galvanized steel tube.
- B. THRST BEARING 1 9/16 ID (: Heavy duty, precision thrust, sealed ball bearing.
- C. BOWL, KIDFORCE SPINNER: An average of 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with single wall construction, molded in 3/8" T-nut inserts, and a textured outside surface.
- D. BRACKET, KIDFORCE SPINNER: One piece all welded construction consisting of 3 1/2" OD x 3/8" wall DOM steel tubing, 1/4" HR steel plate. Finished with a baked on powder coating.
- E. SUPPORT, KIDFORCE SPINNER: One piece all welded construction consisting of 2 3/8" OD x 10 GA galvanized steel tubing and 2" dia. solid steel round. Finished with a baked on powder coating.

#### **2.05 SATELLITE POD, FS**

- A. SATELLITE RING: Linear, low density rotationally molded, U.V. stabilized, polyethylene, .250" thick, double wall construction. Textured outside surface.
- B. RING CAP: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction and a textured surface.
- C. SLEEVE: Linear, low density rotationally molded, U.V. stabilized, polyethylene, .250" thick, single wall construction. Textured outside surface.
- D. HAND HOLD: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with double wall construction and a textured surface.
- E. SPACER: 1/2" Extruded HDPE.
- F. POST, 3" SQ X 11 GA X 57": 3" square x 11 GA galvanized steel. Finished with a baked on powder coating.
- G. POST, 3" SQ X 11 GA X 96": 3" square x 11 GA galvanized steel. Finished with a baked on powder coating.

#### **2.06 SINGLE POD WALK 8-16**

- A. POD WALK SUPPORT 40: One piece all welded construction consisting of 2 3/8" OD x 12 GA galvanized steel tubing and 10 GA galvanized sheet steel. Finished with a baked on powder coating.
- B. POD WALK TOP: Formed 1/8" sheet steel with studs welded into place. PVC coated after fabrication.

## **2.07 WACKY WORM S CRAWL TUNNEL**

- A. 45 DEG TUBE W/PORTS: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with a textured outside surface.
- B. 45 D TUBE W/O FLNG W/PORT: 1/4" thick, linear, low density, rotationally molded, U.V. stabilized polyethylene with a textured outside surface.
- C. CLOUD TUNNEL END: 1/2" Extruded HDPE
- D. WACKY WORM TUNNEL END: 1/2" co-extruded HDPE
- E. ANCHOR TUBE 1.66 X 33 1/2: 1.660" OD x 12 GA galvanized steel tubing finished with a baked on powder coating.

## **2.08 Z BALANCE BEAM**

- A. EXIT SUPPORT: 1.660" OD x 13 GA galvanized steel tubing finished with a baked on powder coating.
- B. BAL BM ZIG ZAG 4ft: One piece all welded construction consisting of 3" SQ x 11 GA galvanized steel tubing, and 14 GA galvanized steel plate. Finished with a baked on powder coating.

## **2.09 Descriptions of Coatings**

- A. PVC Coating (Poly-Vinyl Chloride): Prior to coating, each part shall be chemically washed, submerged in a heat-activated primer and dried. After drying, each part shall be pre-heated to a temperature no less than 350° F and immersed in liquid PVC. Play/usage surfaces shall have coating thickness of .085-.150 in. Park and site surfaces (i.e. benches, picnic tables) shall have coating thickness of .050-.080 in. The PVC shall have:
  - 1. Tensile strength of no less than 1830 psi per ASTM 412.
  - 2. Elongation of no less than 350% per ASTM 412.
  - 3. Tear strength of no less than 250 lb./in. per ASTM 624.
  - 4. Hardness of 75 +/- 3 (Durometer, Shore A) per ASTM 2240.
  - 5. UV stabilizer shall be added to PVC to withstand one year in a QUV panel tester without any significant color drift. Burn Rate will meet or exceed Federal Safety Standard MVSS 302. This is the same as a UL 94 HB rating.

B. Standard Powder Coating: Prior to powder coating, all parts shall be cleaned, and pretreated with a non-phosphate and non-chromic process. A polyester/TGIC powder coating with superior color-, gloss-, and UV-stabilizing qualities shall be 2.0 mils minimum and shall be cured in an oven at temperatures no less than 356° F and no more than 410° F. The powder-coat shall have the following properties:

1. Adhesion: No less than 5B [The edges of the cuts are completely smooth; none of the squares of the lattice is detached.] (cross hatch/tape adhesion test per ASTM D3359 Method B).
2. Hardness: No less than 2H (pencil hardness test per ASTM B3363).
3. Resistance to Impact: No appearance of cracks from 80 in/lb direct or reverse impact (ASTM D2794)
4. Resistance to Bending: No visible cracking (1/8" bending test per ASTM 522).
5. Resistance to Salt Spray: No more than 1/32" undercutting and no blistering in 500 hours (salt spray test per ASTM B117).
6. Resistance to Humidity: No more than 1/32" undercutting and no blistering in 500 hours (humidity test per ASTM D2247)
7. Degree of Gloss: No less than 80% reflected (specular gloss test at 60° per ASTM D523).

C. Super Durable Powder Coating: Prior to powder coating, all parts shall be cleaned, and pretreated with a non-phosphate and non-chromic process. A polyester/TGIC powder coating with superior color-, gloss-, and UV-stabilizing qualities shall be 2.0 mils minimum and shall be cured in an oven at temperatures no less than 338° F and no more than 392° F. The powder-coat shall have the following properties:

1. Adhesion: No less than 5B [The edges of the cuts are completely smooth; none of the squares of the lattice is detached.] (cross hatch/tape adhesion test per ASTM D3359 Method B).
2. Hardness: No less than 2H (pencil hardness test per ASTM B3363).
3. Resistance to Impact: Cracking at the perimeter of the concave area, but no cracking pick off from 80 in/lb direct or reverse impact (ASTM D2794).
4. Resistance to Bending: No visible cracking (1/8" bending test per ASTM 522).
5. Resistance to Salt Spray: No more than 1/32" undercutting and no blistering in 1000 hours (salt spray test per ASTM B117).
6. Resistance to Humidity: No more than 1/32" undercutting and no blistering in 1000 hours (humidity test per ASTM D2247).
7. Degree of Gloss: No less than 80% reflected (specular gloss test at 60° per ASTM D523).

D. Power Coating (Coastal Package only): Prior to powder coating, all parts shall be cleaned, treated with a phosphate-free cleaner and sealed with a non-chromic process. + These parts shall be cured in an oven at temperatures no less than 338°F. All metal parts will be coated with a two-part powder coat system that consists of :

\*Min. 3 mil base coat of epoxy based zinc-free primer made for superior corrosion protection.

\*Min. 3 mil top coat will consist of a super durable, weather resistant and opaque Powder Coating.

This two-coat powder coating system provides superior color, gloss and UV stabilizing properties, good chemical resistance, along with excellent corrosion protection properties consisting of the following:

1. Resistance to Humidity: No more than 1/32" undercutting and no blistering in 1000 hours (humidity test per ASTM D2247).
2. Resistance to Salt Spray: No more than 1/32" undercutting and no blistering in 3000 hours (salt spray test per ASTM B117).

## **2.10 Descriptions and Processes of Components**

- A. Aluminum Posts [S2000, S3000] shall be assembled from extruded tubing with a yield test of at least 35,000 psi and a tensile strength of at least 38,000 psi. Tube members shall comply with and shall be tested according to ASTM B-241.
- B. Clamp castings shall be cast aluminum heat-treated alloy with a tensile strength of at least 51,000 psi, yield test of at least 36,000 psi, shear of 40,000 psi, and elongation of 7% minimum.
- C. Fasteners
  1. Carriage bolts and hex head cap screws shall be zinc plated grade 5 steel.
  2. Button head cap screws and socket head cap screws shall be '300 Series' stainless steel, tamper resistant, and treated with a locking/sealing adhesive.
  3. Nuts shall be '300 Series' stainless steel or zinc plated grade 5 steel.
  4. Washers shall be '300 Series' stainless steel or zinc plated grade 5 steel.
- D. Steel (7 GA) shall have a yield test of at least 21,500 psi and tensile strength of at least 36,000 psi.
- E. Steel Posts [S2000, S3000, Little Buddies] shall be cold-formed steel tubing with a yield test of at least 50,000 psi and a tensile strength of at least 55,000 psi. Tube members shall comply with ASTM A-135 and ASTM A-500 Grade A and shall be tested according to ASTM E-8.
  1. Tubing Exteriors shall be galvanized, then coated with a chromate conversion coating and finished with a baked-on powder-coat.
  2. Tubing Interiors shall be coated with a zinc-rich compound.
- F. Plastic Parts, other than recycled materials, shall be manufactured from rotationally molded, linear, low-density polyethylene with an average of .250" wall thickness and textured non-sliding surfaces. Plastic parts shall be UV stabilized to UV-15 and shall range in density from no less

than .938 to no more than .940 per ASTM D-1505. Plastic parts shall have a tensile strength at yield no less than 2250 psi and exhibit no flexural modulus below 78,000 psi.

### **PART 3 EXECUTION**

#### **3.01 Site Preparation**

- A. All new installation shall be laid out by the contractor in accordance with the construction plans.

#### **3.02 Installation**

- A. Install play structure in compliance with manufacturer's written instructions.
- B. Install components in sequence as recommended by manufacturer.
- C. Install play structure as indicated on the drawings provided.
- D. Variations from the installation indicated must be approved.
- E. Variations from the installation indicated and all costs for removal and replacement will be the responsibility of the contractor.

#### **3.03 Cleaning**

- A. The contractor shall clean the jobsite of excess materials, including post hole excavations.

#### **3.04 Demonstration**

- A. Instruct the owner's personnel on proper operation and maintenance of playground components.

END OF SECTION