



STATE COLLEGE AREA SCHOOL DISTRICT

PLAYGROUND MASTERPLAN

JUNE 3, 2019



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INTRODUCTION

The design team began working with the State College Area School District in the fall of 2018 to develop a masterplan to address the district’s outdoor play spaces.

Metcalfe is a firm of experience designers – architects, exhibit and graphic designers, and play professionals. We have devoted our practice to playful learning opportunities in schools, gardens, museums, and other cultural institutions. We regard play as a primary way humans learn and we deeply appreciate the District’s desire to invest in this critical part of student life.

We have worked in concert with Studio Ludo on this masterplan. They are a 501(c)3 organization devoted to building better play through research, design, and advocacy. The center of their research is in playground assessment, examining play value, safety in the context of risk/benefit and they are extremely sensitive to the entire environment in which the invitation to play takes place.

Think Green, LLC is a landscape design and construction firm with a deep connection to children’s play environments. They have provided technical construction advice and cost estimating for the master planning project.

Stahl Sheaffer Engineering, LLC is a State College, PA based civil engineering firm with experience working with the State College Area School District. We have recruited them to help us identify critical civil engineering issues that may confront the project at an individual school basis as the District moves from planning to implementation.

Our team has made it our mission to craft remarkable environments that support the innovation, creativity, discovery, and joy that can be found only through play. We are excited about the potential of the State College Area School District Master Plan to not only address the state of its current play venues, but to rethink the future of its outdoor environments through the lens of play-based learning. Metcalfe’s and Studio Ludo’s combined design experience is well versed in current trends in play and learning environment design, from the integration of risk into play, to the importance of nature in school settings. We believe strongly in the correlation between joy in play and success in learning. In the words of Fred Rogers, “Play is often talked about as if it were a relief from serious learning. But for children play is serious learning. Play is really the work of childhood.”



PROJECT GOALS

Metcalfe was asked to develop holistic playgrounds that emphasized naturalized play spaces and learning opportunities and, where applicable, integrate existing and traditional play equipment towards those aims and to ensure ADA access as outlined in the play area guidelines supplement to the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and the 2010 ADA Standards for Accessible Design.

In order to understand what existed and what was needed, we developed a base knowledge of each school through:

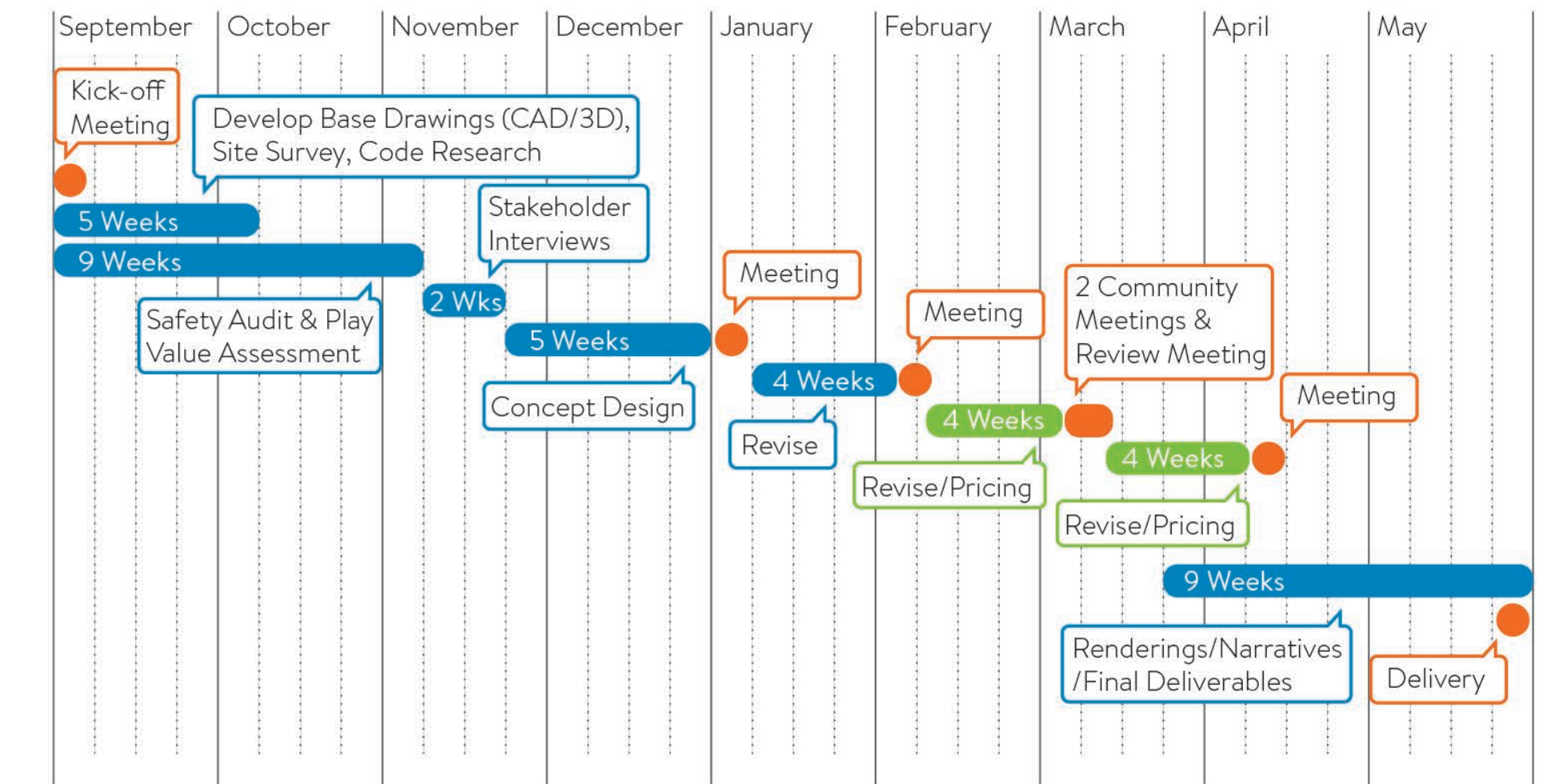
- Documenting existing conditions
- Performing playground safety and play value audits
- Establishing programming needs
- Providing recommendations for the findings

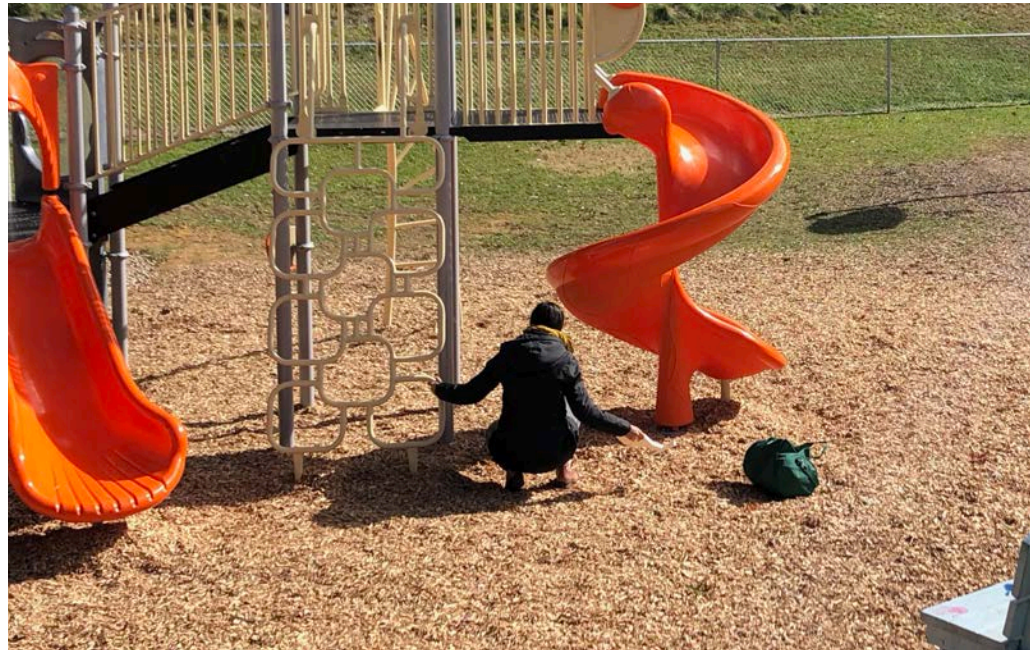
As part of the development and iterative process of design, we lead several community based engagement meetings. We worked with the following stakeholders to gather input and critique during the design process:

- SCASD Board of School Directors
- SCASD Administrative and Professional Staff
- SCASD Designated Playground Task Force
- State College Community At-Large

This document intends to summarize the masterplan process through discovery and analysis, design and suggested phasing for implementation for the following schools:

- Corl Street Elementary School
- Easterly Parkway Elementary School
- Ferguson Township Elementary School
- Gray’s Woods Elementary School
- Mount Nittany Elementary School
- Park Forest Elementary School
- Radio Park Elementary School
- Spring Creek Elementary School (future)
- Mount Nittany Middle School
- Park Forest Middle School
- Delta Program





PLAY REPORT

OVERVIEW

The goal of the play report is to lay the foundation upon which recommendations for the design of existing and future play areas for the State College Area School District (SCASD) will be developed.

The report begins with an overview of nature play, why it is important, and what nature play elements currently exist within the District. It then provides an overview of each of the ten sites, with photographs, illustrative plans that show existing play features and elements, play potentials, safety and accessibility issues.

Playground Safety Audits were undertaken for each of the ten play areas by a Certified Playground Safety Inspector (CPSI) trained by the National Recreation and Park Association (NRPA).

The Playground Safety Audits assess for compliance with ASTM F1487 (Standard Consumer Safety Performance Specification for Playground Equipment for Public Use), CPSC No. 325 (U.S. Consumer Product Safety Commission’s Public Playground Safety Handbook), and the Americans with Disabilities Act of 2010 (ADA).

The Playground Safety Audits include a Priority Ranking System to address any safety issues on a Priority 1-5 scale.

PRIORITY 1:

Non-compliant safety concern that may result in permanent disability, loss of life or body part. Condition should be corrected immediately.

PRIORITY 2:

Non-compliant safety concern that may result in temporary disability. Condition should be corrected as soon as possible.

PRIORITY 3:

Non-compliant safety concern that is likely to cause a minor (non-disabling) injury. Condition should be corrected when time permits.

PRIORITY 4:

Non-compliant safety concern whose potential to cause injury is very minimal. Condition should be corrected if it worsens.

PRIORITY 5:

The item has been determined to be compliant with the owner/operator’s operating policy and standard of care. Continue standard maintenance program.

No site is currently compliant with ADA guidelines due to playground surfacing materials. Recommend upgrading all playground surfacing to a compliant material, such as Engineered Wood Fiber, within the next 1-2 years.

As part of the master plan, an accessible path of travel will be noted at each site, connecting all accessible play elements to primary access points at each school building.

Swing hardware at every site had advanced rust that may have compromised the metal, particularly at swing hangers. Recommend replacing all swing chains and hardware.

Below is a synopsis of key issues at each site that should be addressed as soon as possible.

For more information and photos, see playground sections. For safety audits, see addendum.

CORL STREET ELEMENTARY

- Current building is in the midst of renovations
- Current playground is intact

Due to age, degradation of finishes and metals, as well as compliance issues with ASTM, CPSC, and ADA, it is recommended that all existing equipment and surfacing be removed from this site.

No equipment is currently a hazard, replacement should occur within the next 1-2 years.

EASTERLY PARKWAY ELEMENTARY

- Building renovated in 2001
- Most equipment was installed during renovation

PRIORITY 2: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6’ on each end of swings.

Currently surfacing is too short for the two taller swings. Surfacing must be installed immediately.

Slide has visible rust. Some rust has compromised the structural integrity of the metal and could fail. Either remove equipment or inspect monthly for failure.

PRIORITY 3: Fitness equipment does not appear to be made of treated wood, has visible rust, has some wood degradation, and could fail. Either remove equipment or replace elements.

FERGUSON ELEMENTARY

- Building renovated in 2011
- Most equipment was installed during renovation

PRIORITY 2: Slide (red, white, and blue) is in the use area of two adjacent structures (slide and tunnel) and must be removed as soon as possible.

Rocker has flaking paint and visible rust. Some rust has compromised the structural integrity of the metal and could fail. It should be removed as soon as possible.

PRIORITY 3: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6’ on each end of swings. Use areas are fine, but kickout areas under both swings need to be topped off.

GRAY’S WOODS ELEMENTARY

- Building was built in 2001
- Most equipment was installed at time of construction
- Some equipment recently added

PRIORITY 2: Truck climber does not have compliant use zone and contains areas of head entrapment. It should be removed as soon as possible.

Climber has flaking paint and visible rust. Some rust has compromised the structural integrity of the metal and could fail. It should be removed as soon as possible.

PRIORITY 3: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6’ on each end of swings.

No surfacing deficiencies are currently a hazard, recommended replacement in the next 1-2 years.

HOUSERVILLE ELEMENTARY (FUTURE SPRING CREEK)

- New building under construction
- None of the original playground remains

MT. NITTANY ELEMENTARY

- Building was built in 2011
- Most equipment was installed at time of construction
- Some equipment recently added

PRIORITY 1: On the composite structure, multiple locations (at wheel connection and on underside of platform) have bolts with more than 2 threads showing.

This has a very high likelihood of injury and must be remedied immediately.

PRIORITY 2: On the composite structure, almost all connections are rusted. Any connection showing visible rust must be replaced as soon as possible.

Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6’ on each end of swings.

Use areas are fine, but kickout areas under all swings need to be topped off.

Additionally, the pink swing has some visible rust on support posts. Inspect on a monthly basis for failure, or replace.

PRIORITY 3: Climber is aged with visible rust, that could have compromised the metal. Recommend replacement in 1-2 years.

Sand box wood is degraded and should be replaced as soon as possible.

MT. NITTANY MIDDLE

- Limited playground (no compliance issues)

PARK FOREST ELEMENTARY

- Building was built in 2005
- Most equipment was installed at time of construction
- Some equipment recently added

PRIORITY 2: Both composite structures have flaking paint and visible rust. Some rust has compromised the structural integrity of the metal. Both should be removed within the next 1-2 years.

Under the overhead bars of structure near building, a stone or concrete is within the use area. This should be removed immediately.

Fitness equipment does not have correct use zone (6’ clear). Recommend installation of surfacing or pruning adjacent shrubs as soon as possible.

PRIORITY 3: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6’ on each end of swings. Recommend installation of surfacing as soon as possible at swings near building.

PARK FOREST MIDDLE

- Limited playground (no compliance issues)

RADIO PARK ELEMENTARY

- Current building is in the midst of renovations
- None of the original playground remains

Children and staff behaviors are also included, to understand holistically how each place, its policies, and its people influenced play and learning across sites, and how that could inform future master plan efforts.

In the words of Fred Rogers, “Play is often talked about as if it were a relief from serious learning. But for children play is serious learning. Play is really the work of childhood.”

We hope this report provides valuable insight into play in the State College Area School District.



NATURE PLAY



Children today are less physically fit, less able to concentrate, and are less able to relate socially to peers and adults than any previous generation of children. These issues, in turn, make them less effective in the classroom.

Research^{1,2,3} demonstrates that outdoor education, greener school grounds, and more time playing outdoors in natural settings support:

- Improved classroom behavior, student motivation, and enthusiasm to learn.
- Better performance in math, science, reading, and social studies.
- Reduced Attention Deficit Hyperactivity Disorder (ADHD).
- Higher scores on standardized tests (including college entrance exams).
- Lowered risk of psychiatric disorders, from adolescence into adulthood.
- Improved eating habits, from childhood throughout life.
- Increased self discipline, emotional regulation, and lowered stress.
- Improved eyesight.

Successful nature play fosters a love of the outdoors, while also supporting children's need for active and passive play.

A diversity of gross and fine motor activities are essential, from sliding, climbing, and jumping, to sand play and manipulating small parts. Children seek out variety and refinement in their play experiences as part of their physical and mental development.

Vestibular stimulation (spinning, swinging, and being upside down) supports core muscle development, which in turn helps children sit. These physical sensations also help with emotional regulation, particularly for children with sensory issues.

Equally important are areas to support social/emotional development with peers and adults. Spaces for make believe, socialization in small and large groups, and places to be alone are essential. Passive spaces can also be used for outdoor education and curriculum development.

¹<https://www.nwf.org/en/Educational-Resources/Reports/2010/09-01-2010-Back-to-School-Back-Outside>

²https://naturalearning.org/wp-content/uploads/2017/09/Benefits-of-Connecting-Children-with-Nature_InfoSheet.pdf

³<https://www.pnas.org/content/116/11/5188>

CORL STREET ELEMENTARY

Corl Street Elementary has a heavily planted and wooded edge adjacent to the play area. Many use trails and play areas, with gatherings of sticks and rocks, exist within this space, demonstrating the existence of active nature play.

However, children were actively discouraged against using this area by staff, and no children were observed within this space.

EASTERLY PARKWAY ELEMENTARY

Easterly Parkway Elementary School has wide open expanses of grass, a handful of mature trees, a sand area, and some moderate topography. During our visit, no children were observed in the trees or sand area, but they were using the grass and hills for a variety of play activities. Some were playing pick up games and tag, while others were rolling down the hill.

Staff stated that the sand area was very popular in warmer months, when children would spend time digging and building. In the colder months, they preferred other areas for digging, as the sand did not drain well, as was wet and cold.

FERGUSON ELEMENTARY

Ferguson Elementary School has several potential spaces for nature play, including grass areas, mature trees, boulders, topography, and a stormwater swale.

Children were seen participating in a variety of play behaviors within these natural spaces. Many used the trees for games, like hide and seek, and tag. Forts and fairy houses were built, and signs of digging were seen around the roots of the trees.

The stormwater swale held significant appeal. It had numerous boulders and rocks, for perching, hanging out, and building. Many children borrowed rocks from the swale to use in other games and constructions around the trees and in the bushes.

Few children were seen in the grass areas. Instead, most either played on the playground equipment, or retreated to the edges of the play area, near the trees.

GRAY'S WOODS ELEMENTARY

Grays Woods Elementary School has significant adjacent spaces for nature play, including grass areas both on and off the property, as well as mature woods and understory bushes.

Children were seen participating in a variety of play behaviors within these natural spaces. The grass areas were used for pickup sports and tag. The hillside was used for running, rolling, and digging. The dirt pile was used for digging and jumping.

Stumps were used as perches, for jumping, as parts of forts, and for making 'stews' with sticks, leaves, and acorns. A number of trees were used for climbing, swinging, and fort building.

Loose parts (sticks, acorns, leaves, and rocks) were a crucial part of the nature play experience and are recommended. Stumps and tree parts were also a great part of the fun and should be retained as much as possible.

HOUSERVILLE ELEMENTARY (FUTURE SPRING CREEK)

- New building under construction
- None of the original playground remains

MT. NITTANY ELEMENTARY

Mt. Nittany Elementary School is surrounded by wide open spaces for nature play, including grass areas, mature trees, and areas of immature trees and understory plantings. Children were seen playing and hiding in the planted areas. While not seen in the act, there was evidence of digging.

There are small hills around the play area perimeter that were popular for rolling and jumping. The open grass areas were also used for pick up games and tag. The mature trees were not seen to be part of the play, but it is highly likely that they are used and play was just not observed.

MT. NITTANY MIDDLE

- Limited playground, no students observed

PARK FOREST ELEMENTARY

Park Forest Elementary School is surrounded by mature woods, understory bushes, and boulders, and has large swathes of grass areas for nature play.

During our visit, no children were observed in these spaces, although there was evidence of play (lean tos and fire rings), either from the schoolchildren or those in the neighborhood.

PARK FOREST MIDDLE

- Limited playground, no students observed

RADIO PARK ELEMENTARY

- Current building is in the midst of renovations
- None of the original playground remains

PLAY POLICIES

A culture of nature play is dependent on both the installations within each site, as well as universal policies regarding nature play throughout the District.

Some schools were relaxed in their policies related to nature play, and some were more strict, explicitly stating that natural areas were off limits.

Standardized policies and training for playground staff is recommended in order for nature play to be successful district wide.

DIGGING: Every school within the District had evidence of digging behaviors. We observed several students using sticks and rocks for digging, and there were piles of dirt seemingly left for this activity.

The general consensus of staff was that digging was acceptable and not harmful to the space, except in areas of topography, where digging caused erosion.

Digging is a great activity for this age range, and an important part of nature play. A district wide policy regarding digging, and other aspects of nature play, such as using sticks, loose parts, and informal

constructions, is recommended District wide, rather than on a case by case basis.

LOOSE PARTS: Ferguson and Corl were the only schools where staff were observed preventing children from using the natural resources of the site.

Children were frequently seen collecting sticks, pebbles, rocks, leaves, and other natural parts for play.

Policies should support playing with loose parts and natural features, such as tree, bushes, sticks, rocks, etc, within safe parameters.

TOPOGRAPHY: Hills, both large and small, were an integral part of the play experience at many sites. Some portions of the hills were fenced off, presumably to stop digging and erosion.

Policies related to hill climbing, rolling, and digging should be established, to maintain the integrity of the sites, while also allowing for play.

PLANTED AREAS: There are many beautifully planted spaces adjacent to play areas that seemed to be used for play, but not necessarily encouraged by staff.

These well established planted areas are ideally suited for nature play, as the plants are often hardy enough to withstand footfall and digging, while also providing places to hide or create small forts.

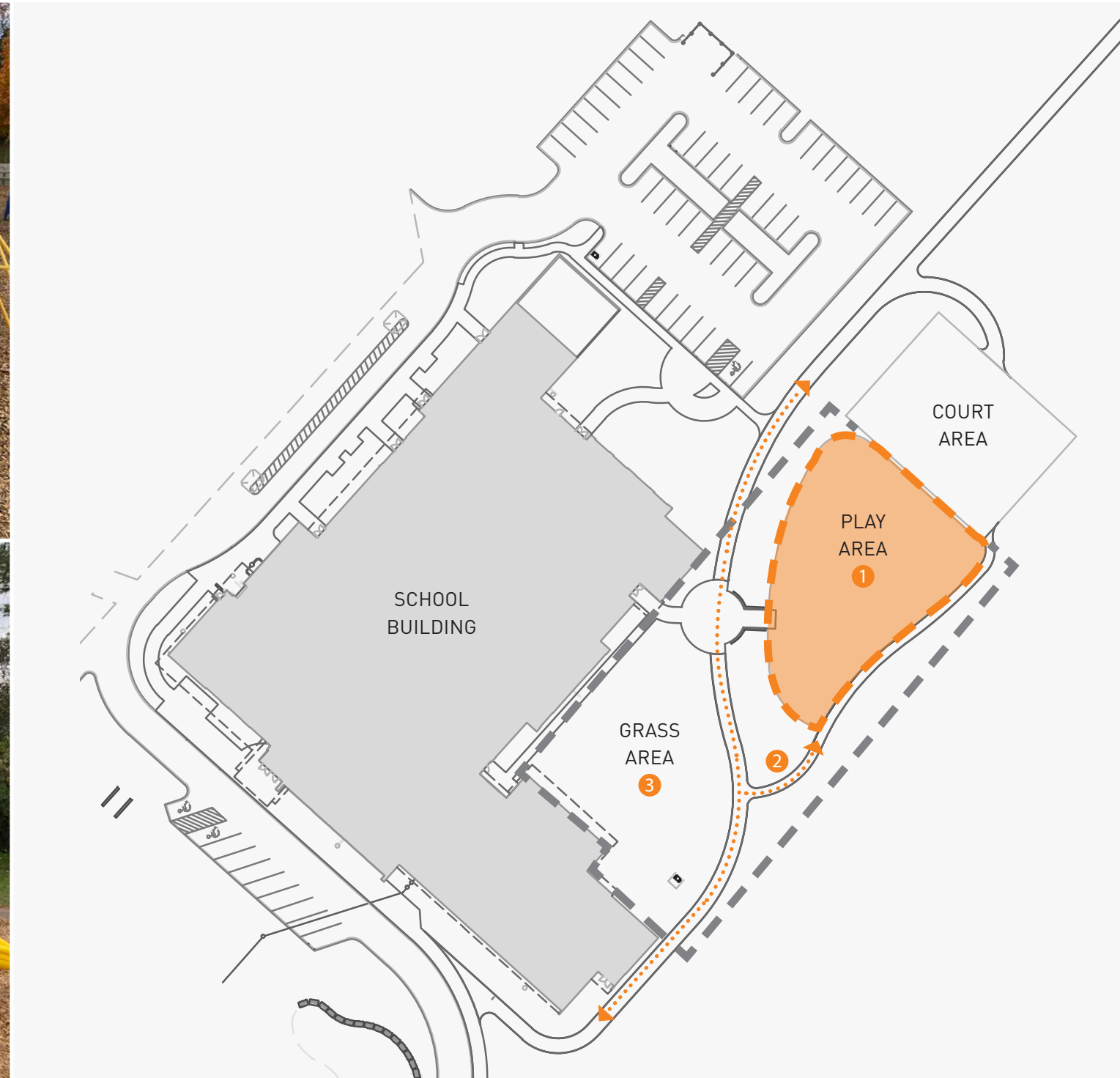
Some of these spaces are not easily visible. If these types of spaces were included in future nature play areas, clear policies related to staff supervision should be addressed.

PLAYFUL LEARNING: A few schools seemed to have a culture of nature play and exploration already established, based on installations (butterfly gardens, bird blinds, green roofs, etc), as well as educational signage.

These installations are a good model for nature based play and learning. A District wide policy related to outdoor educational experiences, classroom time outdoors, signage, and curriculum development would greatly expand the potential of the nature play areas as learning spaces.

CORL ELEMENTARY SCHOOL

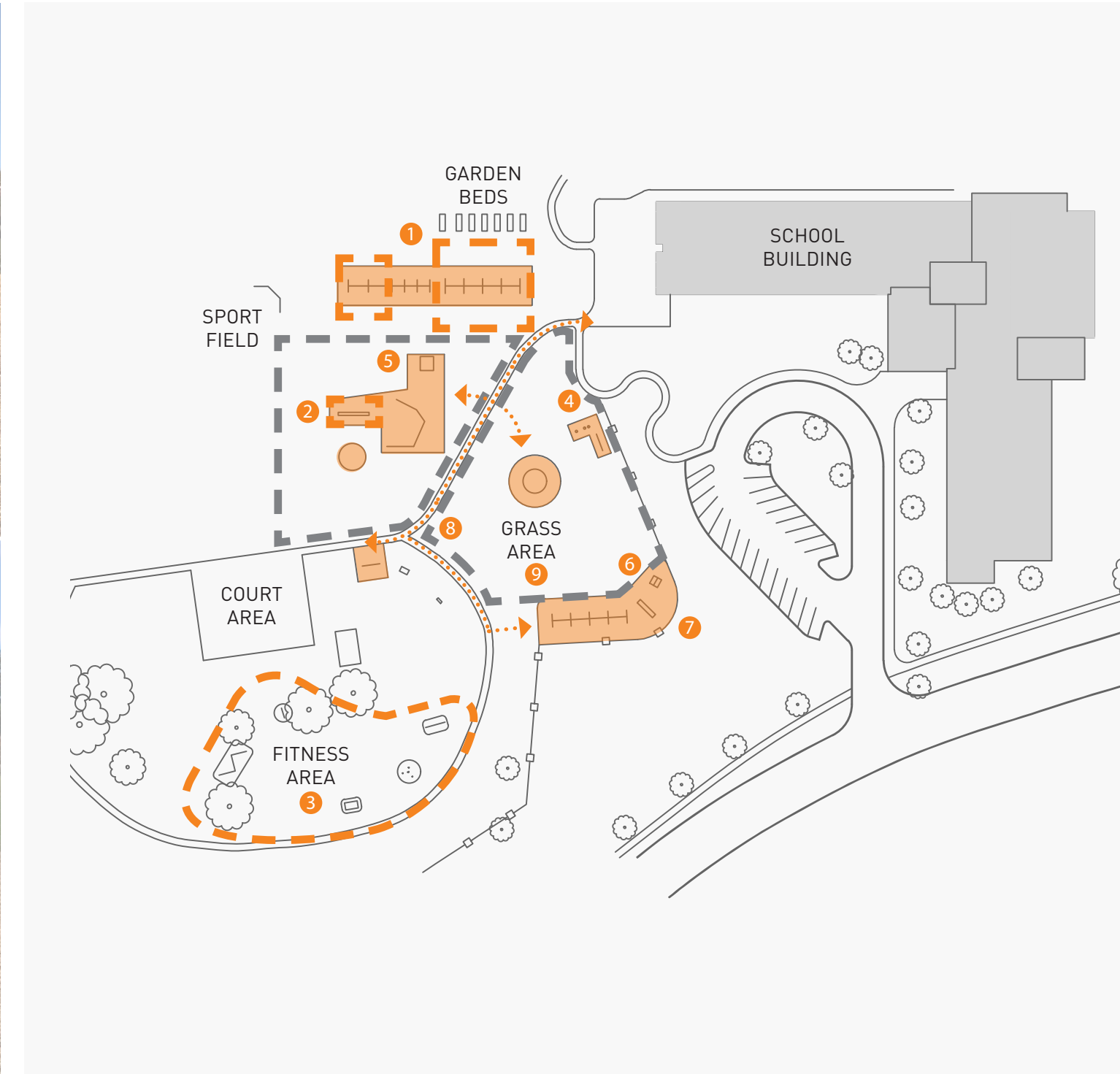
- BUILDING ●
- PLAYGROUND SURFACING ○
- ACCESSIBLE PATH - - - -
- KEY ISSUES - - - -
- POTENTIAL PLAY AREAS - - - -



- 1 Remove all existing equipment and surfacing, non-compliant with CPSC, ASTM, and ADA guidelines. No equipment is currently a hazard, replacement should occur within the next 1-2 years.
- 2 Potential accessible path, ensure compliant route to play equipment.
- 3 Grass area potential for nature play: topographic changes, edged with mature trees and shrubs.

EASTERLY PARKWAY ELEMENTARY SCHOOL

- | | | | | |
|---------------------|---------------------|-----------------------|----------------------|----------------------|
| <u>PRIORITY ONE</u> | <u>PRIORITY TWO</u> | <u>PRIORITY THREE</u> | <u>PRIORITY FOUR</u> | <u>PRIORITY FIVE</u> |
| None | 1 Swings | 3 Fitness Area | 4 Steppers | Safety Labels |
| | 2 Slide | | 5 Climber | |
| | | | 6 Rocker | |



- 7 Replace all surfacing, not compliant with ADA guidelines.
- 8 Accessible path, ensure compliant route to play equipment.
- 9 Grass area potential for nature play: open area, infill around existing equipment to enable all play features to be on accessible path of travel.

EASTERLY PARKWAY ELEMENTARY SCHOOL

PRIORITY ONE:
None.

PRIORITY TWO:



SWINGS: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6' on each end of swings. Currently surfacing is too short for the two taller swings. Surfacing must be installed immediately.



SLIDE: Structure has visible rust. Some rust has compromised the structural integrity of the metal and could fail. Either remove equipment or inspect monthly for failure.

PRIORITY THREE:



FITNESS EQUIPMENT: Does not appear to be made of treated wood, has visible rust, has some wood degradation, and could fail. Either remove equipment or replace elements.

ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant however, and is recommended to be replaced by Engineered Wood Fiber, or other accessible surface.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

FENCING: Playground is near an adjacent high volume street. It is recommended that fencing or a barrier be installed between the play area and the street.

PRIORITY FOUR



STEPPERS: Steppers plastic shell is cracked. Recommend replacement within the next 1-2 years, or when equipment breaks.



RUST: Inspect all fasteners and moving parts for rust. If rust has compromised the integrity of the metal, the part must be replaced. Otherwise, light sanding and repainting (matching paint to be provided by manufacturer) is recommended.

NOTED AREAS OF RUST: Climber, rocker, swing chains and attachments. These areas did not appear to have advanced rust that compromised the metal. Swing support poles have advanced rust that could have potentially compromised the metal. Inspect these areas on a monthly basis for failure.



CLIMBER: Structure has rust at base. Inspect these areas on a monthly basis for failure.

SHADE: Shade is recommended in the play area.

TRASH RECEPTACLES: Trash receptacles are recommended in the play area.

PRIORITY FIVE:



SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:

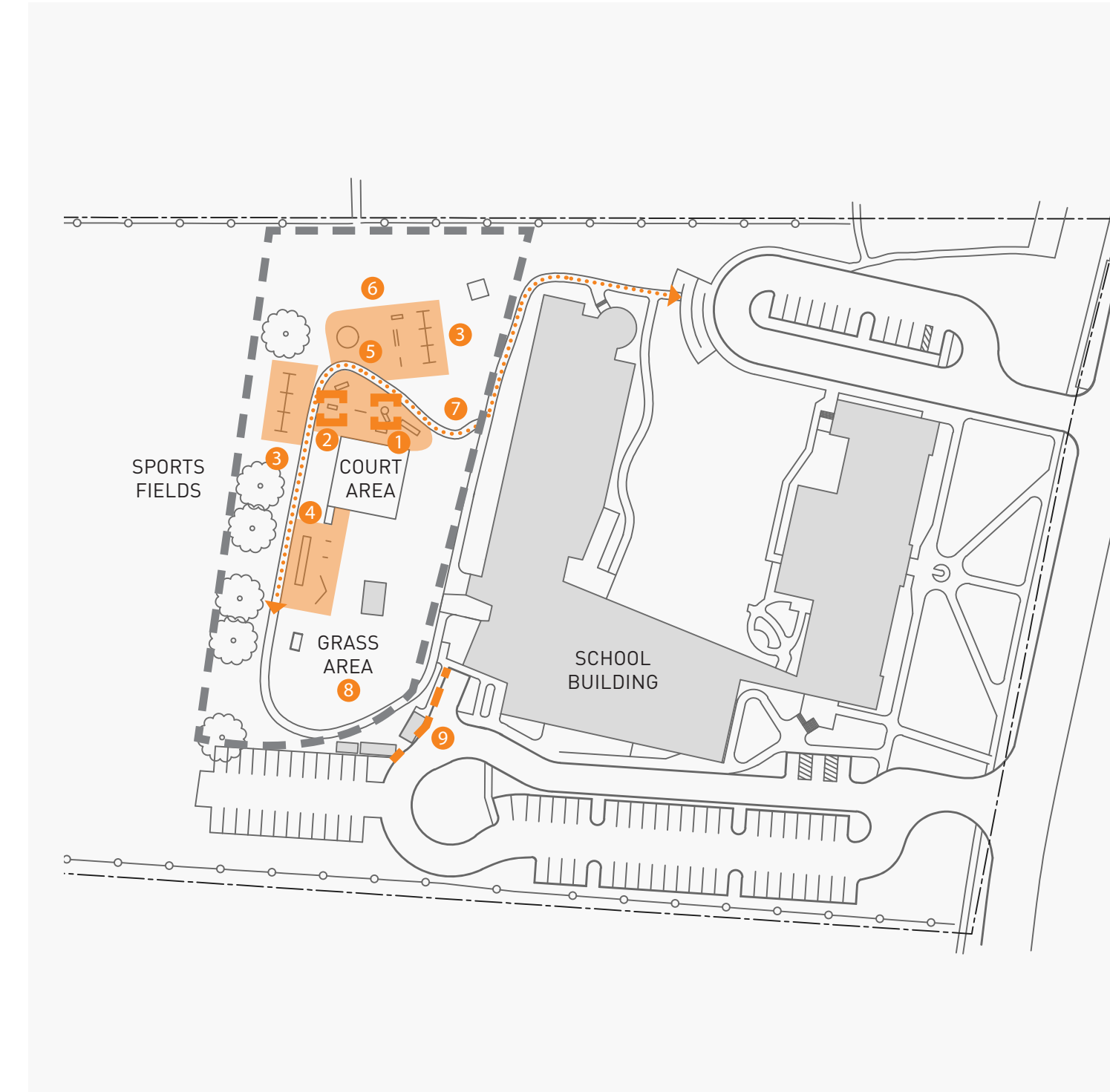
- Age ranges (2-5 and 5-12)
- Adult supervision recommended
- Manufacturer's identification
- Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
- Warning about removing helmets and drawstrings
- Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

FERGUSON ELEMENTARY SCHOOL

PRIORITY ONE	PRIORITY TWO	PRIORITY THREE	PRIORITY FOUR	PRIORITY FIVE
None	1 Slide	3 Swings	5 Truck	Safety Labels
	2 Rocker	4 Sandbox		



- 6 Replace all surfacing, not compliant with ADA guidelines.
- 7 Accessible path, ensure compliant route to play equipment.
- 8 Grass area potential for nature play: open area, mature trees, boulders.
- 9 Fencing recommended between play area and parking lot.

FERGUSON ELEMENTARY SCHOOL

PRIORITY ONE:
None.

PRIORITY TWO:



SLIDE: Slide (red, white, and blue) is in the use area of two adjacent structures (slide and tunnel) and must be removed as soon as possible.



ROCKER: Structure has flaking paint and visible rust. Some rust has compromised the structural integrity of the metal and could fail. It should be removed as soon as possible.

PRIORITY THREE:



SWINGS: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6' on each end of swings. Use areas are fine, but kickout areas under both swings need to be topped off.

ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant however, and is recommended to be replaced by Engineered Wood Fiber, or other accessible surface.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

FENCING: Playground is near adjacent parking. It is recommended that fencing or a barrier be installed between play area and parking.

PRIORITY FOUR:



TRUCK: Several instances of rusted metal and connectors. Recommend sand and repaint, as well as replacement of all loose, broken, or rusted connectors.



RUST: Inspect all fasteners and moving parts for rust. If rust has compromised the structural integrity of the metal, the part must be replaced. Otherwise, light sanding and repainting (matching paint to be provided by manufacturer) is recommended.

NOTED AREAS OF RUST: Swing support beam, guardrail at slide, washer at bolt on underside of slide platform. These areas appeared to have advanced rust that could have potentially compromised the metal. While not currently a hazard, inspect these areas on a monthly basis for failure.



SANDBOX: Sand box wood is degraded and should be replaced as soon as possible.

SHADE: Shade is recommended in the play area.

TRASH RECEPTACLES: Trash receptacles are recommended in the play area.

PRIORITY FIVE:



SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:

- Age ranges (2-5 and 5-12)
- Adult supervision recommended
- Manufacturer's identification
- Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
- Warning about removing helmets and drawstrings
- Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

GRAY'S WOODS ELEMENTARY SCHOOL

<u>PRIORITY ONE</u>	<u>PRIORITY TWO</u>	<u>PRIORITY THREE</u>	<u>PRIORITY FOUR</u>	<u>PRIORITY FIVE</u>
None	1 Truck 2 Climber	3 Swings	4 Hardware	Safety Labels



- 5 Replace all surfacing, not compliant with ADA guidelines.
- 6 Consider fence between play area and parking.
- 7 Accessible path, ensure compliant route to play equipment.
- 8 Grass/tree area potential for nature play: topography, edged with mature trees and shrubs.

GRAY'S WOODS ELEMENTARY SCHOOL

PRIORITY ONE:
None.

PRIORITY TWO:



TRUCK: Truck climber does not have compliant use zone and contains areas of head entrapment. It should be removed as soon as possible.



CLIMBER: Structure has flaking paint and visible rust. Some rust has compromised the structural integrity of the metal and could fail. It should be removed as soon as possible.



SWINGS: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6' on each end of swings. No surfacing deficiencies are currently a hazard, recommended replacement in the next 1-2 years.

ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant however, and is

recommended to be replaced by Engineered Wood Fiber, or other accessible surface.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

FENCING: Playground is near an adjacent parking area. It is recommended that fencing or a barrier be installed between the play area and the parking area.

PRIORITY FOUR:



HARDWARE: Fastener is broken (bottom step of composite climber), another fastener is loose (panel on composite climber), recommend replacement as soon as possible.



RUST: Inspect all fasteners and moving parts for rust. If rust has compromised the structural integrity of the metal, the part must be replaced. Otherwise, light sanding and repainting (matching paint to be provided by manufacturer) is recommended.

NOTED AREAS OF RUST: Bottoms of steppers, all swing attachments and some swing chains, stairs at newer (orange plastic) composite structure, and hardware at backboard of basketball hoops.

These areas did not appear to have advanced rust that compromised the metal.



SLIDE: Slide has significant wear and tear. Recommend replacement in the next 3-5 years, or sooner if broken.

SHADE: Shade is recommended in the play area.

TRASH RECEPTACLES: Trash receptacles are recommended.

PRIORITY FIVE:



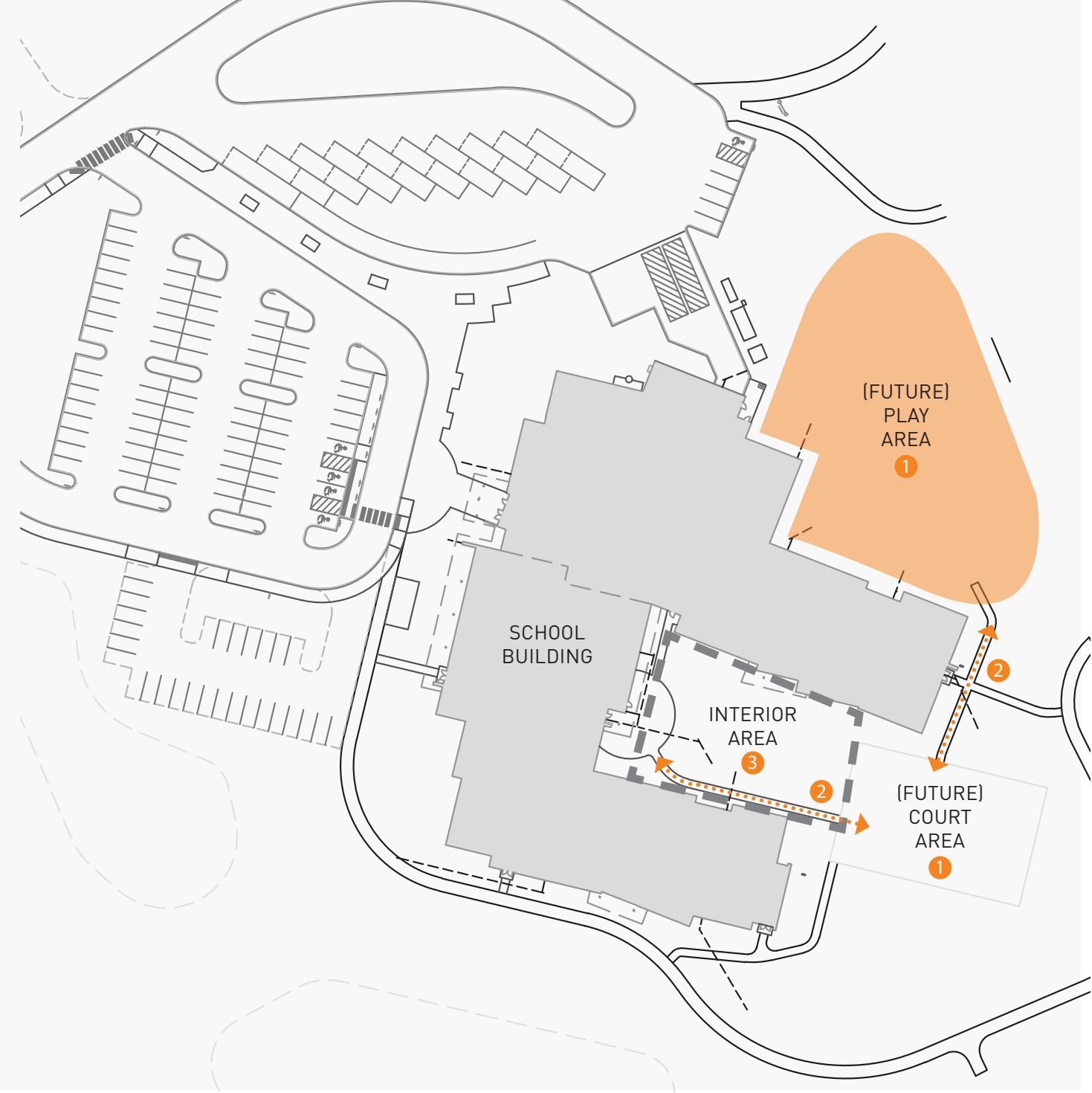
SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:

- Age ranges (2-5 and 5-12)
- Adult supervision recommended
- Manufacturer's identification
- Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
- Warning about removing helmets, drawstrings, and items around the neck
- Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

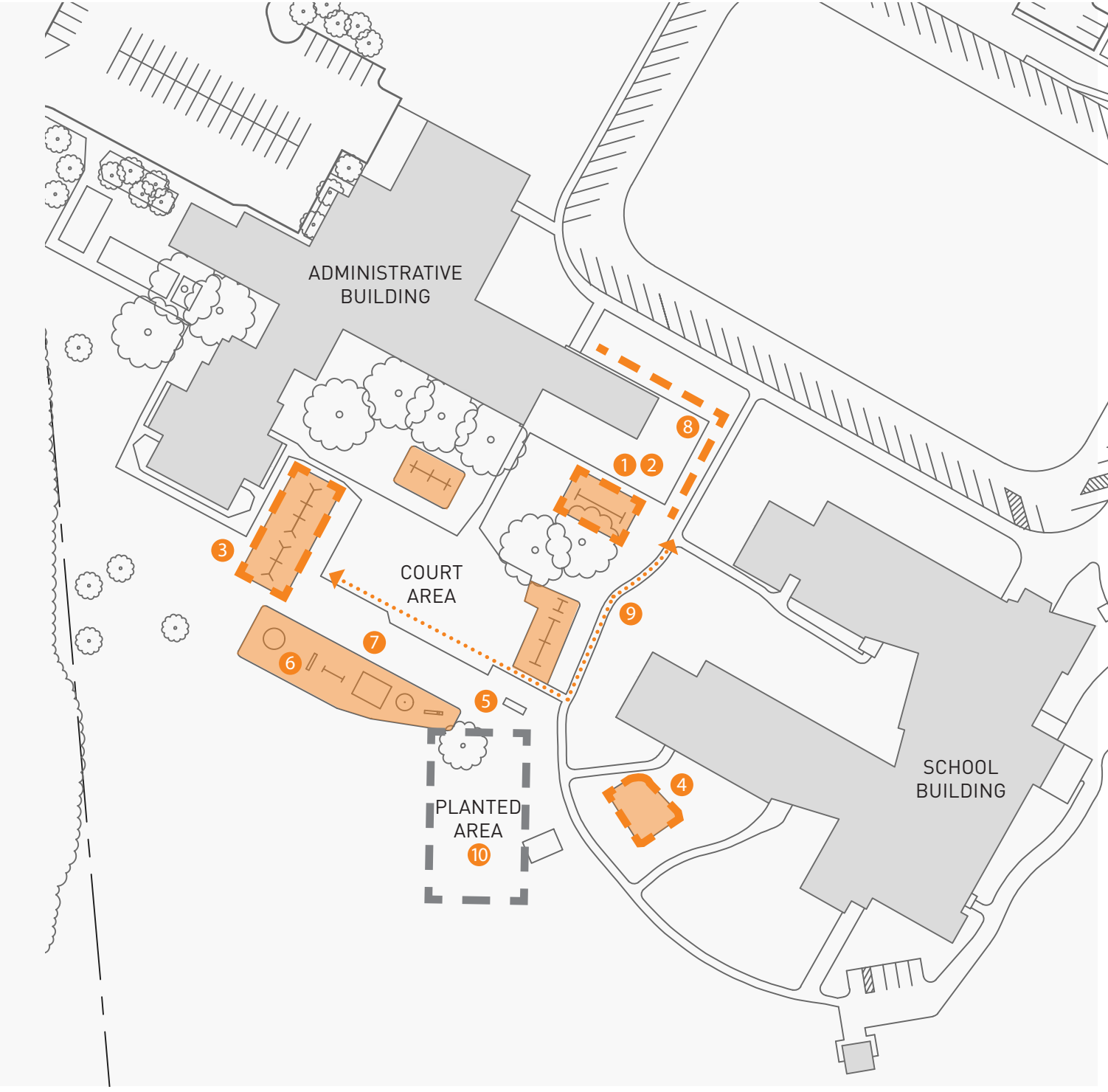
HOUSERVILLE ELEMENTARY SCHOOL (FUTURE SPRING CREEK)



- 1 Building under construction, with future court and play area identified on construction plans. existing play equipment onsite damaged and not recommended for re-install.
- 2 Potential accessible path, ensure compliant route to play equipment.
- 3 Interior area potential for nature play: accessible, visible to staff, protected by buildings.

MT NITTANY ELEMENTARY SCHOOL

- PRIORITY ONE
1 Structure
- PRIORITY TWO
2 Structure
3 Swings
- PRIORITY THREE
4 Climber
5 Sandbox
- PRIORITY FOUR
6 Maintenance
- PRIORITY FIVE
Safety Labels



- 7 Replace all surfacing, not compliant with ADA guidelines.
- 8 Consider fence between play area and parking.
- 9 Accessible path, ensure compliant route to play equipment.
- 10 Planted area potential for nature play: topography, trees and shrubs.

MT NITTANY ELEMENTARY SCHOOL

PRIORITY ONE:



COMPOSITE STRUCTURE: Multiple locations (at wheel connection and on underside of platform) where bolts have more than 2 threads showing. This has a very high likelihood of injury and must be remedied immediately.

PRIORITY TWO:



COMPOSITE STRUCTURE: Almost all connections on structure are rusted. Any connection showing visible rust must be replaced as soon as possible.



SWING: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6' on each end of swings. Use areas are fine, but kickout areas under all swings need to be topped off. Additionally, the pink swing has some visible rust on support posts. Inspect on a monthly basis for failure, or replace.

PRIORITY THREE:



CLIMBER: Structure is aged with visible rust, that could have compromised the metal. Recommend replacement in 1-2 years.

SANDBOX: Sand box wood is degraded and should be replaced as soon as possible.

ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant however, and is recommended to be replaced by Engineered Wood Fiber, or other accessible surface. An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

FENCING: Playground is near an adjacent parking area. It is recommended that fencing or a barrier be installed between the play area and the parking area.

PRIORITY FOUR



RUST: Inspect all fasteners and moving parts for rust. If rust has compromised the structural integrity of the metal, the part must be replaced.

Otherwise, light sanding and repainting (matching paint to be provided by manufacturer) is recommended.

NOTED AREAS OF RUST: Most connectors at composite structure, all swing attachments and some swing chains, and panel at composite structure [see below]. These areas did not appear to have advanced rust that compromised the metal.



SHADE: Shade is recommended in the play area.

TRASH RECEPTACLES: Trash receptacles are recommended.

PRIORITY FIVE:



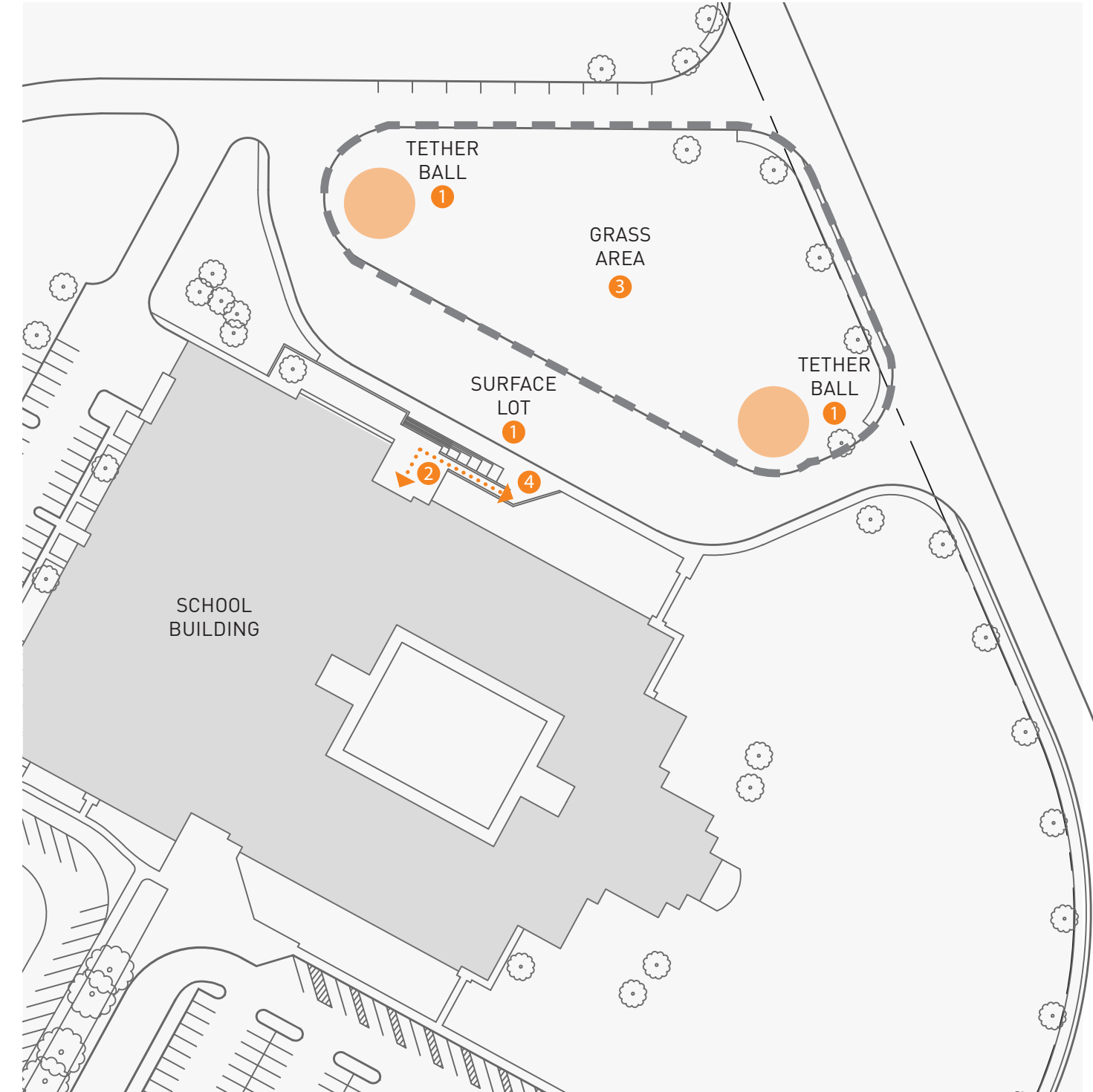
SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:

- Age ranges (2-5 and 5-12)
- Adult supervision recommended
- Manufacturer's identification
- Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
- Warning about removing helmets and drawstrings
- Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries. Manufacturer equipment records and contact information included in the Appendix.

MT NITTANY MIDDLE SCHOOL



- 1 Play area consists of surface lot and tetherball. No compliance issues.
- 2 Accessible path, ensure compliant route to play equipment.
- 3 Grass area potential for nature play: topographic changes, mature trees.
- 4 Accessible ramp potential for play: parkour/skating.

PARK FOREST ELEMENTARY SCHOOL



- PRIORITY ONE**
None
- PRIORITY TWO**
1 Structure 1
2 Structure 2
3 Fitness Equip.
- PRIORITY THREE**
4 Swings
- PRIORITY FOUR**
5 Maintenance
- PRIORITY FIVE**
Safety Labels



- 6 Replace all surfacing, not compliant with ADA guidelines.
- 7 Accessible path, ensure compliant route to play equipment.
- 8 Grass area potential for nature play: large open area edged with mature trees and shrubs.
- 9 Wooded area potential for nature play: boulders, mature trees, and topography.

PARK FOREST ELEMENTARY SCHOOL

PRIORITY ONE:
None.

PRIORITY TWO:



COMPOSITE STRUCTURE 1: Structure does not have compliant use zone, has flaking paint and visible rust. Some rust has compromised the structural integrity of the metal. It should be removed within the next 1-2 years.



COMPOSITE STRUCTURE 2: Structure has flaking paint and visible rust. Some rust has compromised the structural integrity of the metal. It should be removed within the next 1-2 years. Under the overhead bars, a stone or concrete is within the use area. This should be removed immediately.



FITNESS EQUIPMENT: Fitness equipment does not have correct use zone (6' clear). Recommend installation of surfacing or pruning adjacent shrubs as soon as possible.

PRIORITY THREE:



SWINGS: Surfacing should be full depth recommended by manufacturer in front and rear (for 2x height) and 6' on each end of swings. Recommend installation of surfacing as soon as possible at swings near building.

ACCESSIBILITY: Playground is accessed via surface asphalt from building. Playground surfacing is not compliant however, and is recommended to be replaced by Engineered Wood Fiber, or other accessible surface.

An accessible path of travel must connect the building to each piece of play equipment designated as accessible.

PRIORITY FOUR:



RUST: Inspect all fasteners and moving parts for rust. If rust has compromised the structural integrity of the metal, the part must be replaced.

Otherwise, light sanding and repainting (matching paint to be provided by manufacturer) is recommended.

NOTED AREAS OF RUST: Rocker connections, swing chains and connectors. These areas did not appear to have advanced rust that compromised the metal.

Many structural components and fasteners on the composite structures showed advanced rust and must be replaced.



MAINTENANCE: Climber has wobbly end, recommend footing inspection. Seesaw has gaps, recommend eliminating.

SHADE: Shade is recommended in the play area.

TRASH RECEPTACLES: Trash receptacles are recommended.

PRIORITY FIVE:



SAFETY LABELS/SIGNAGE: Labels or signage are recommended in each play area with the following:

- Age ranges (2-5 and 5-12)
- Adult supervision recommended
- Manufacturer's identification
- Warning regarding installation of equipment over hard surfaces, such as concrete, asphalt, or packed earth
- Warning about removing helmets and drawstrings
- Warning about hot surfaces and burns

FINISH: Elements with areas of worn paint are recommended for repainting (matching paint to be provided by manufacturer).

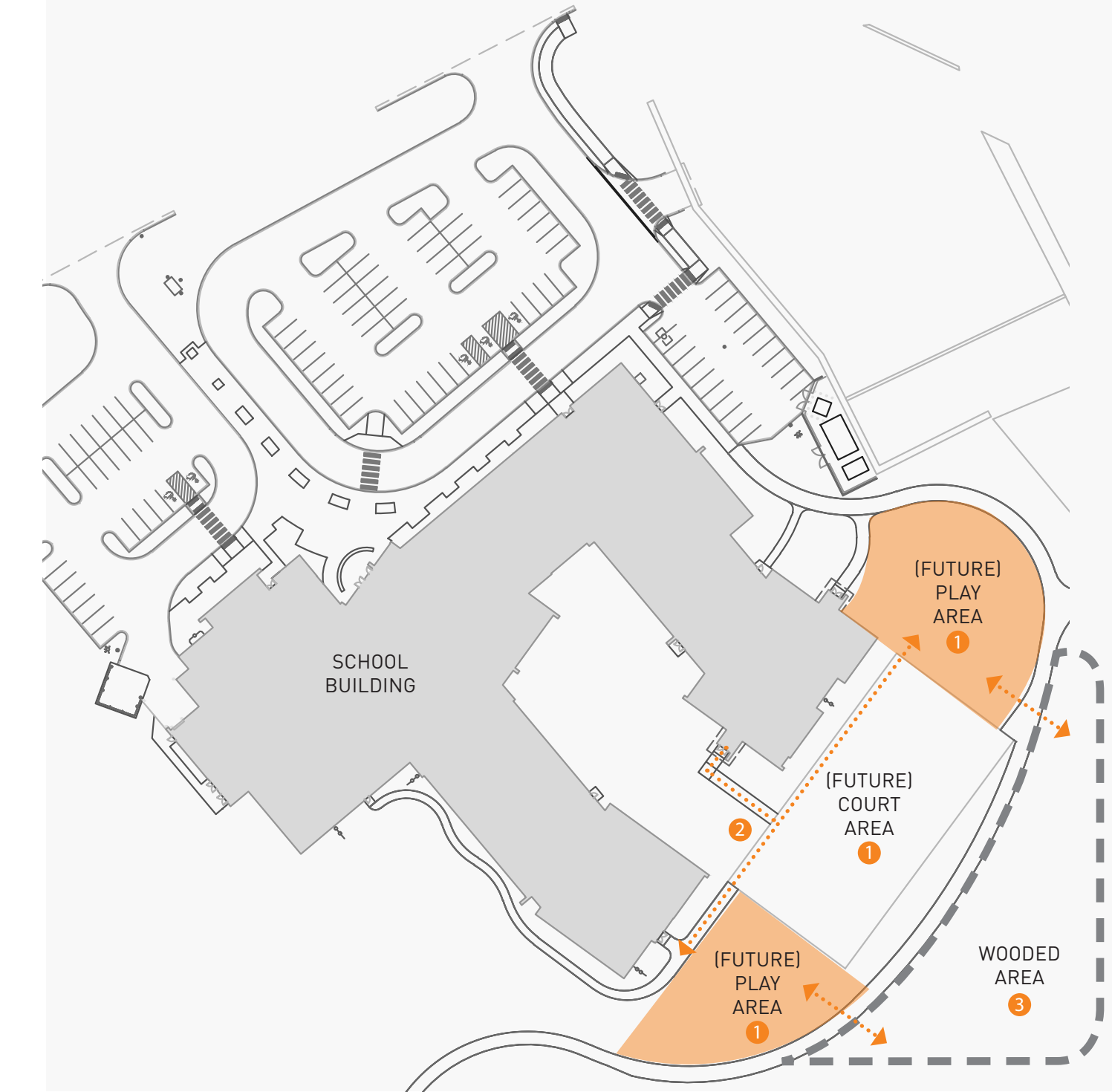
RECORDS: Recommend retaining all records regarding play structures, surfacing, maintenance, and injuries.

PARK FOREST MIDDLE SCHOOL



- 1 Current play area consists of a basketball court and tetherball. no compliance issues of note.
- 2 Accessible path, ensure compliant route to play equipment.
- 3 Grass area potential for nature play: topographic changes, edged with mature trees and shrubs.
- 4 Retaining wall potential for play: climbing/bouldering.

RADIO PARK ELEMENTARY SCHOOL



- ① Building under construction. future court and play areas identified on construction plans. No play equipment currently on site.
- ② Potential accessible path, ensure compliant route to play equipment.
- ③ Wooded area potential for nature play: dense canopy of mature trees, grass, and boulders.



COMMUNITY ENGAGEMENT



WHAT IS YOUR FAVORITE PLAY MEMORY?

STAKEHOLDER MEETING: JAN 16, 2019

Metcalfe and Studio Ludo conducted a meeting with the district appointed stake holders – a group that consists of a cross section of representation for each of the schools involved in the study. We should note that the Delta program did not participate in this exercise. The intent of this meeting was to solicit feedback from the stakeholders about their overall ideas of what play could be and shouldn't be within the district. This wasn't about what equipment should be at each school, but HOW the children play or HOW they should not play.

The approximately 50 stakeholders received a number randomly at the door upon entering the meeting room to "mix up" the attendees at each table – there were six tables in all.

For the first exercise, each participant was to write down or use one of the provided images to explain their fondest play memory from their childhood. They then posted their memories on a bulletin board and a select few shared their memory with the larger group. Many, if not most of the memories of play shared were not even on playgrounds! Playing in the backyard, creeks, woods, riding bikes and climbing trees were very popular...kickball, swings and merry-go-rounds were also mentioned often.



I loved the merry-go-round here were some friends that would get us spinning so fast that you could lift up your feet and fly.

Play with 3 siblings on a 5' tall dirt pile covered with sumac trees + raspberry plants... and a dugout 'cave' to play hide + seek
WILD + FREE

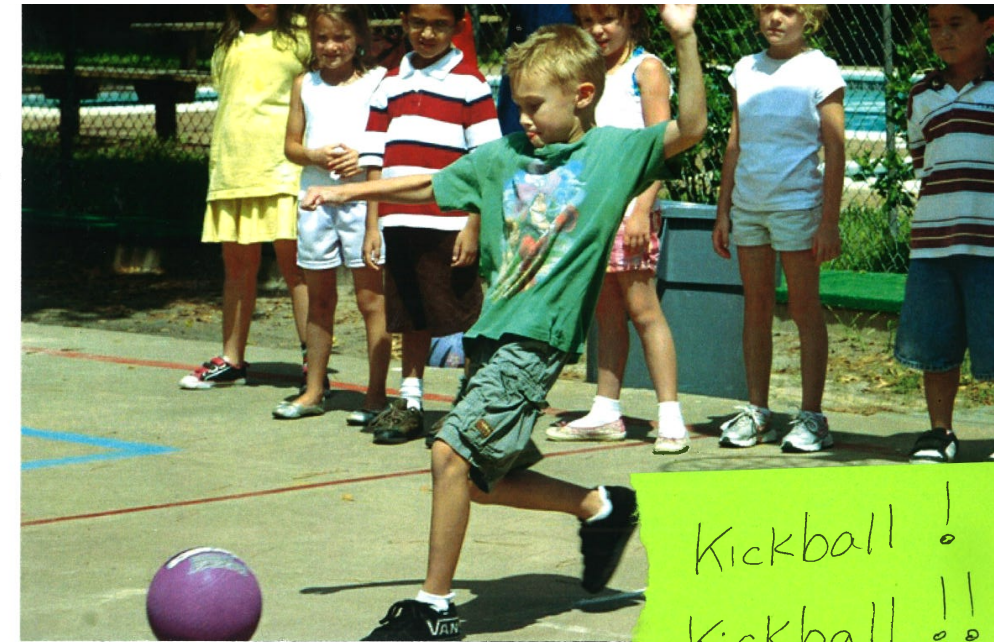
Rope Swing

(Indian Jones Style)

I wrote short stories about a kid who "frenzied" around the neighborhood + town. Even to school.

forts

We would go into the "woods" and make forts. There were apartments next near the woods and we would dumpster dive and get things for our fort – bottles, mattresses, etc. We would make different rooms and sweep them



Kickball!
Kickball!!

Kickball on the blacktop every day – every day. Can still remember who could kick it over the swings –

My fondest play memory as a child was the giant tree in my grandparents front yard. I remember climbing the tree with my friends and creating all kinds of forts with blankets on the branches. We would create all kinds of clubs and just spend hours playing in and around that tree.



Behind a friends house, we would build a fort out of scrap wood. For ^{that was lying around} ~~fort~~ we headed back into the woods. It changed and evolved. We never really finished – it was more the process.

- Playing in the woods and making mud patties during recess at Park Forest Elementary
- Playing in the kindergarten playground at Park Forest and playing chase
- Hanging upside down and climbing on monkey bars (at the same elementary)

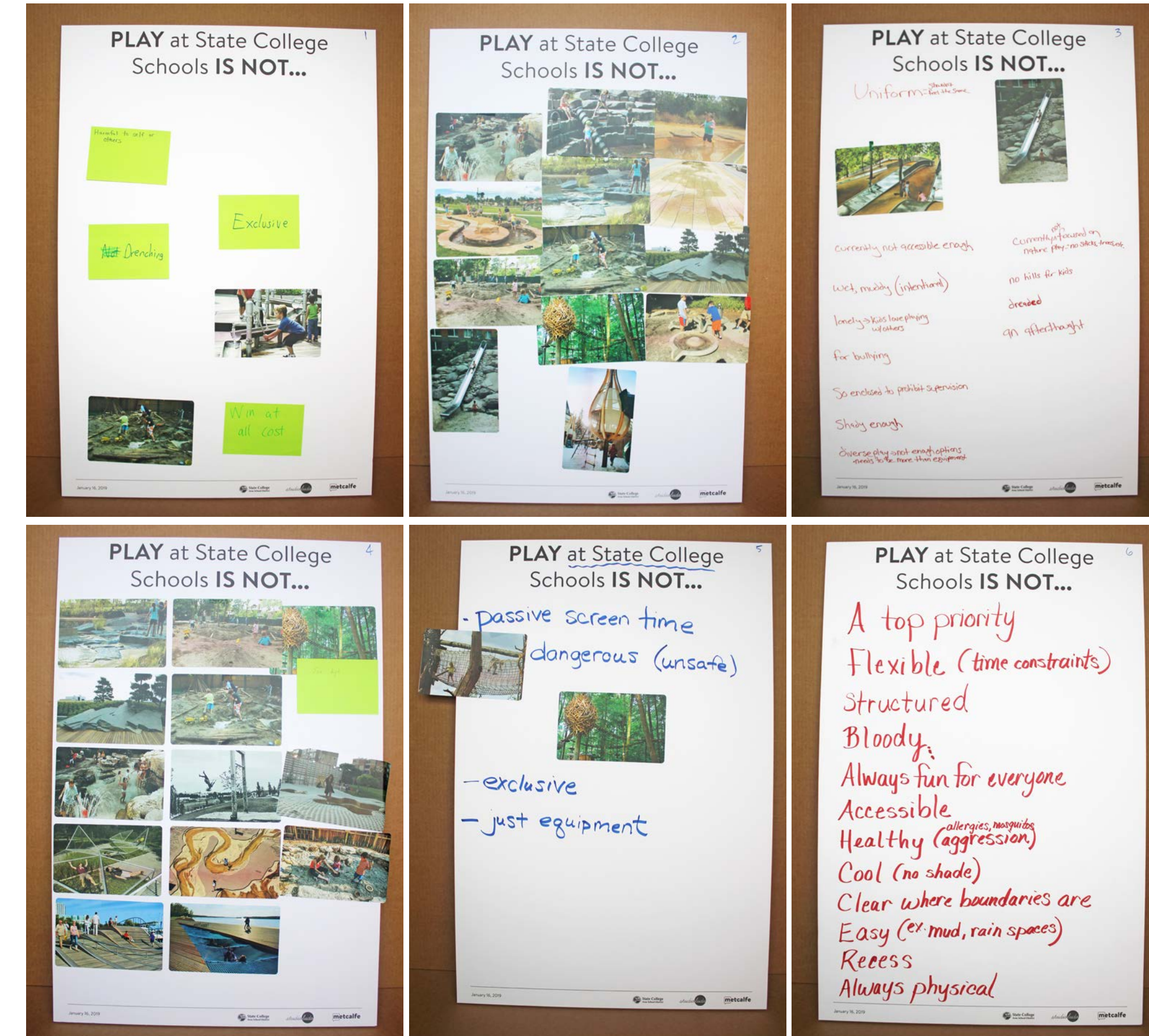
PLAY AT STATE COLLEGE IS...

For the second half of the meeting, each table was to write down, list or use provided images to describe what they thought "Play is" and what "Play is Not" for the district. The attendees at each table were to discuss, agree, argue, disagree – but come to some conclusion for each category. Each table then had a volunteer or two present their boards to the larger group as a summary of their table's discussion.

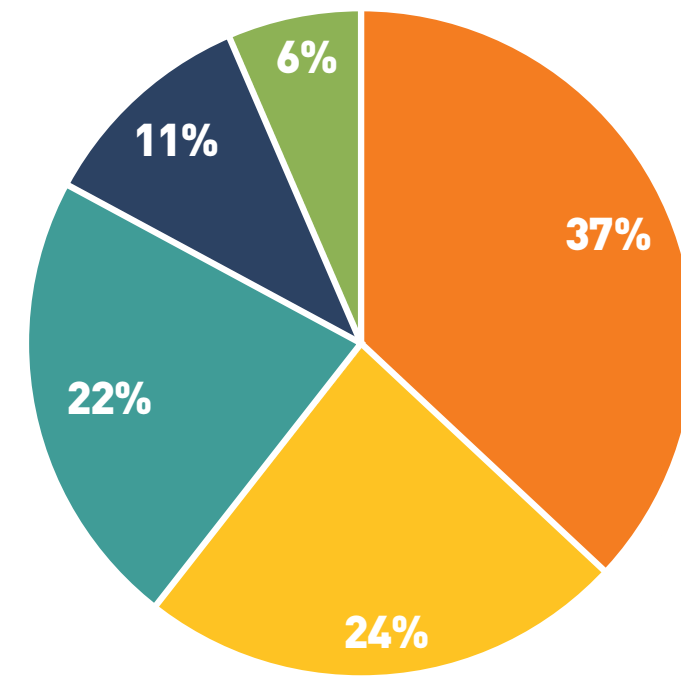
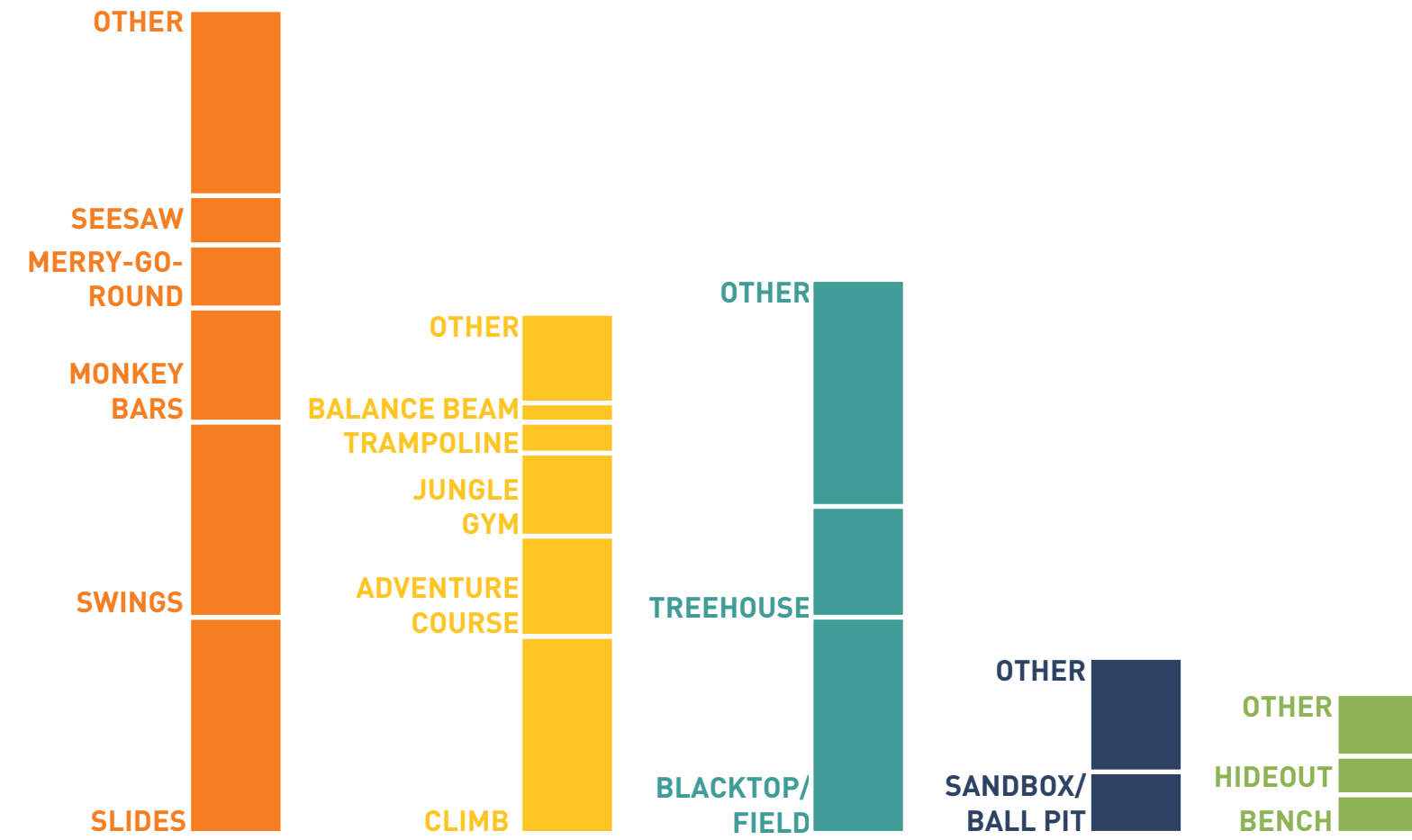


PLAY AT STATE COLLEGE IS NOT...

Some of the major "Play is Not" concepts include water play and hazardous play. While many thought water would be fun and educational, the consensus was that water and mud would be tough for teachers and staff to deal with coming back into the classroom. "Play is" themes included physically challenging the children and risk taking, imaginative play and using natural play elements such as rocks, logs and hills.



WHAT KIND OF ADVENTURES COULD YOU HAVE HERE?



- Woo Spaces**
Vestibular, proprioceptive, ability to sit
- Risky Spaces**
Critical thinking, confidence
- Social Spaces**
Communication, empathy, social cues
- Build Spaces**
Creativity, collaboration
- Solitary Spaces**
mental health, emotional regulation

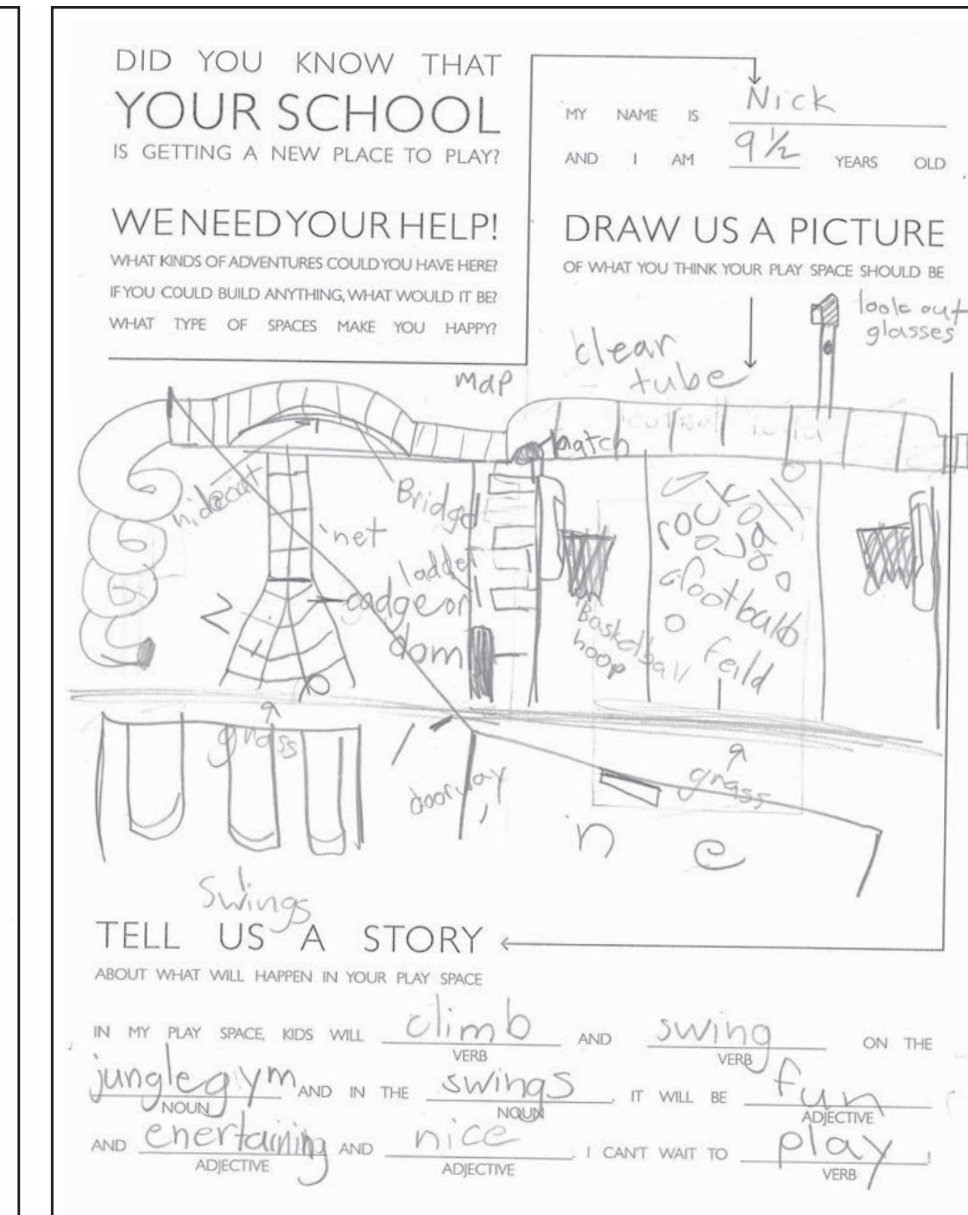
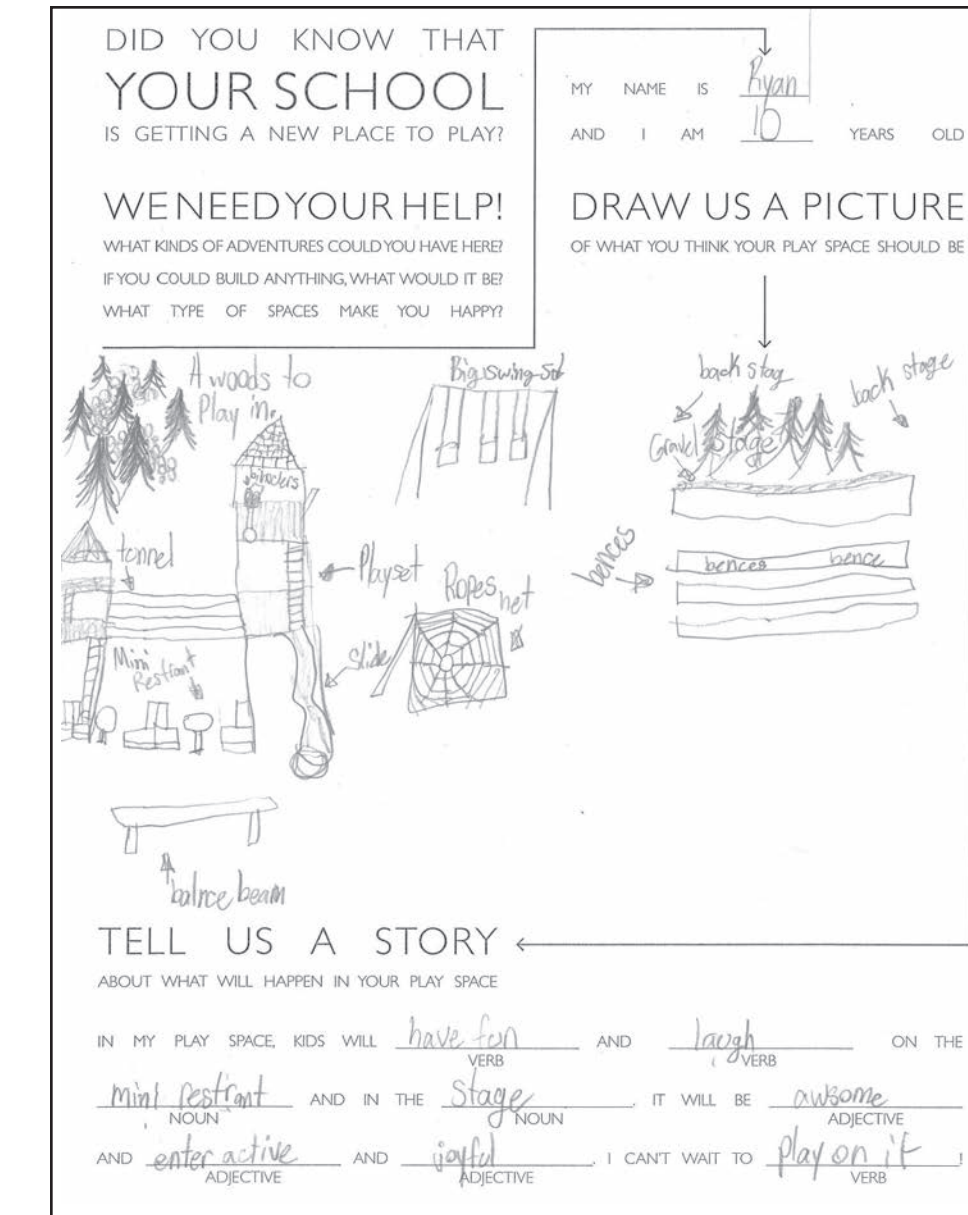
As part of the student survey process of the Masterplan, students were asked to draw pictures and fill out a “mad lib” of what their new play space could be. Examples of these drawings are on the following page.

The results show that the students, using what they know of playgrounds and adding in their imaginations of what could be, focused on “woo” spaces, risky spaces, and social spaces in particular.

Woo spaces give us awareness of our bodies in an environment. The special movement these spaces produce, such as sliding and swinging, make us feel our surroundings in ways that are atypical to our everyday movement.

Risky spaces help us challenge ourselves....at our own pace. We develop physically as we conquer those challenges and develop mentally as well. We are not depending on someone else to assess a situation for us, but understanding our own abilities in the process.

As humans, we are social beings. Whether we are playing a ball game on the blacktop or grass or snuggled close to our friends in a treefort, social cues and communication are developed in these environments.

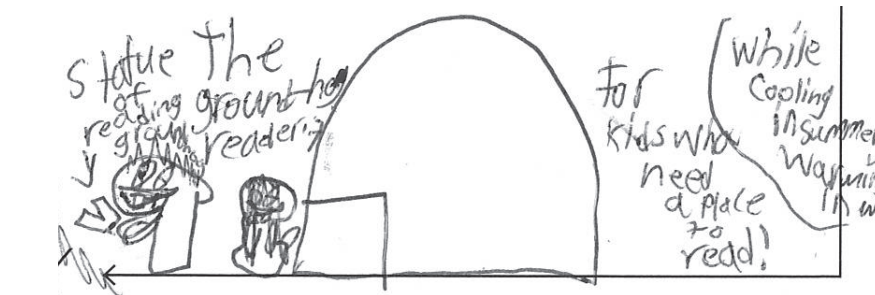


IN MY PLAY SPACE, KIDS WILL play AND fly ON THE equipment AND IN THE pavilion IT WILL BE fun AND silly AND crazy I CAN'T WAIT TO play

IN MY PLAY SPACE, KIDS WILL learn AND explore ON THE ship AND IN THE fort IT WILL BE exciting AND magical AND fun I CAN'T WAIT TO learn and explore it!

IN MY PLAY SPACE, KIDS WILL run AND climb ON THE climber AND IN THE field IT WILL BE great AND pretty AND bold I CAN'T WAIT TO swing and the grass will be green.

TELL US A STORY ABOUT WHAT WILL HAPPEN IN YOUR PLAY SPACE:

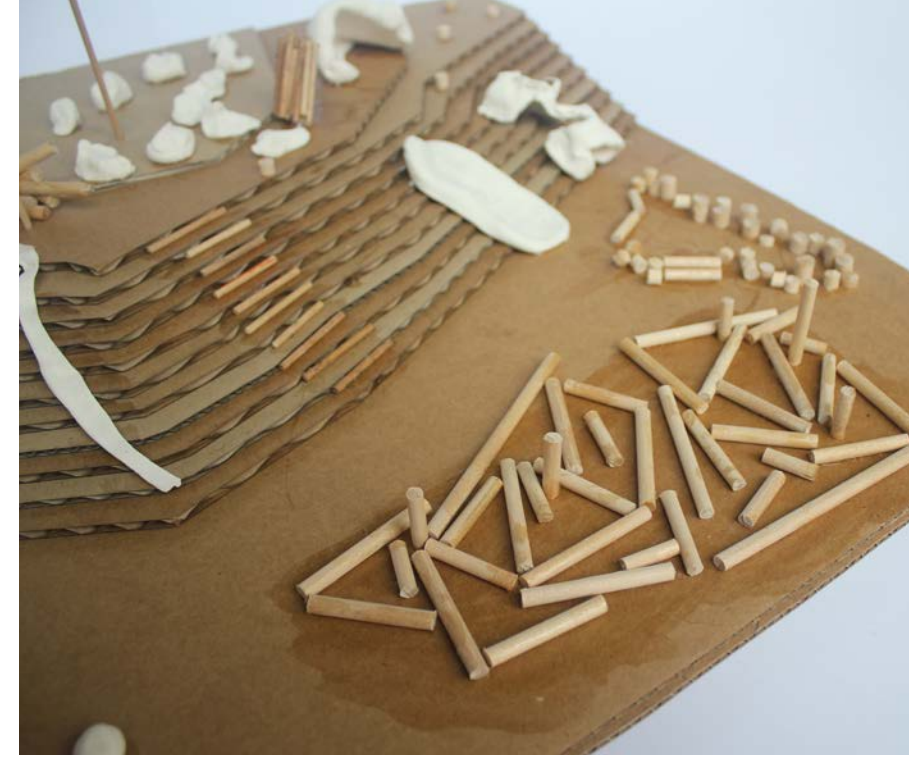




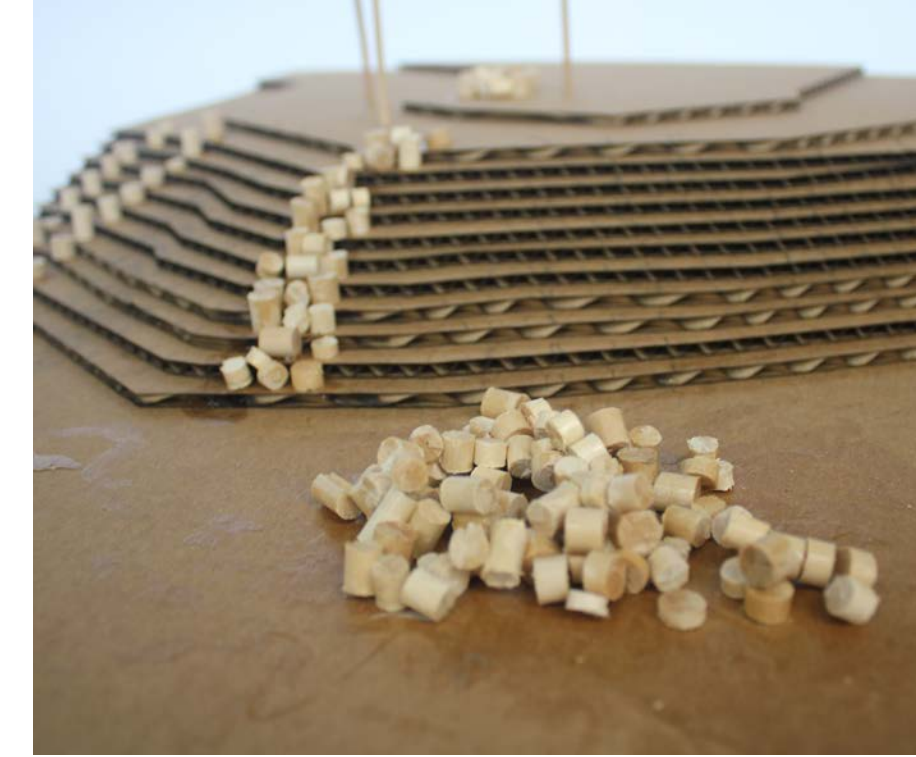
Student model of racing slides and ramps allowing kids of all abilities to enjoy the play ground.



Student model of a tee-pee that could be used as a secret hide out or space for kids to sit quietly when they don't feel like playing.



Student model of a maze, allowing kids to explore freely.



Student model of a hill made of tree stumps, giving kids the opportunity to climb and explore.



The combination model showing the 5 design elements of boulders, logs, vertical sticks, stumps and hills working together.



Racing slides, tree stump paths, a log maze, secret cave hide out, log piles, and balancing logs were used by the students to design their play ground.

DESIGN MEETING

MARCH 21, 2019

Following a small group design meeting several weeks earlier, we conducted a design input meeting with approximately 50 parents and staff and 30 students. The meeting consisted of two groups working concurrently then coming together at the end.

The students were set up in five groups and given a fictitious site with a single nature play design element with which

to work. These elements were the base components the design team was using for each of the schools. The groups consisted of boulders, logs, vertical sticks, stumps and hills. After designing in their assigned groups with their singular element, they were then tasked with combining their thoughts, elements and designs on a singular site. They then presented their designs to the larger parent/staff group. Some of the major points from the students' presentations included designing for inclusivity, desire for secret spaces, problem solving and group play opportunities.

While the students were exploring the relationships of the nature play elements, Metcalfe and Studio Ludo presented the current in-process designs for each of the schools, fielding questions and comments throughout the evening. Some of the major points of conversation with the parents and staff included reinforcing inclusivity as a driver of design, gardens, quieter areas for kids who don't want to play, importance of asphalt for play during snow/rain and enough green space for ball play.



Community Engagement Board for Gray's Woods Elementary.



Community Engagement Board for Park Forest Elementary.



Community Engagement Board for Park Forest Middle School.



Community Engagement Board for Radio Park Elementary.



Community Engagement Board for Corl Street Elementary.

COMMUNITY ENGAGEMENT MEETING

APRIL 10, 2019

The design team conducted four community engagement meetings in April 2019, each meeting focusing on about three schools per meeting. This narrowed focus of only a few schools at a time was structured to encourage more direct and specific feedback from community members and staff of those schools. The following pages note some, not all, of the discussion for each of the school communities.

On the first night we discussed Grays Woods Elementary, Park Forest Elementary, and Park Forest Middle School. A small group of community members participated in the conversation providing fitting insight. A few of the comments included not encouraging play in the courtyard area of Grays Woods as a concern for disruption of adjacent classrooms and considering hammocks as social spaces/woo spaces combined for Park Forest Middle School. The design team is proposing stainless steel group slides on many of the district's playgrounds. There is a concern of "hot" stainless steel. Some of the schools have natural shaded environments that would alleviate this concern. In schools where there is no available shade in

the areas where the group slides are proposed, the team introduced new trees immediately adjacent to the slides to provide shade. The group also discussed having a maintenance plan in place, not only for the equipment and new nature play components, but for the play surface and proposed landscaping to assist the district moving forward.

COMMUNITY ENGAGEMENT MEETING

APRIL 11, 2019

The second evening we engaged with about ten community members from Radio Park Elementary and Corl Street Elementary. Radio Park comments ranged from use of the existing garden area and ensuring it was ADA accessible to ensuring there were basketball hoops on the asphalt area. There was also conversation about separation of age groups of children. It was determined this is not a typical policy of the district to separate (one school does have this separation) and that the designs are set for ages 5-12.

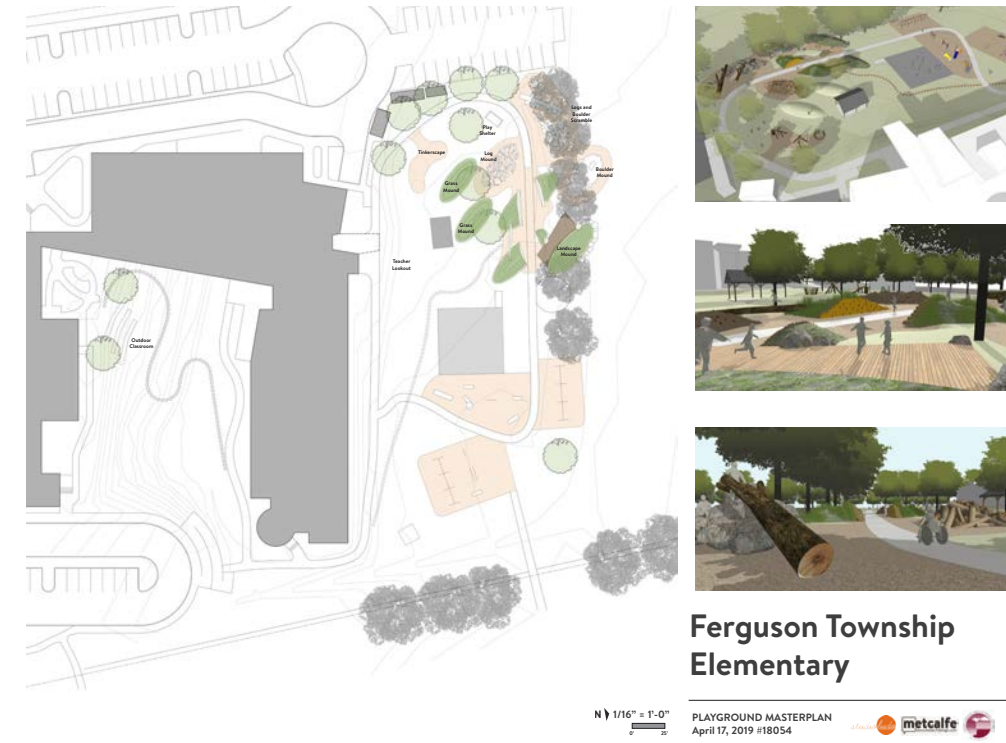
Corl Street also commented on having basketball hoops and confirming the number of swings. Many of the proposed designs for the district included group swings. The design team worked with the community comments to include more individual swings, but still include a group swing. With the Corl Street building expansion, the play area inherited some additional outdoor space. The designs included grass mounds on this space. The team was asked to remove those mounds to allow for an open flat space for group play events like kickball.



Community Engagement Board for Easterly Parkway Elementary.



Community Engagement Board for the Delta Program.



Community Engagement Board for Ferguson Township Elementary.



Community Engagement Board for Mt. Nittany Elementary.



Community Engagement Board for Mt. Nittany Middle School.



Community Engagement Board for Spring Creek Elementary.

COMMUNITY ENGAGEMENT MEETING

APRIL 17, 2019

The third evening approximately 15-20 community members attended the conversation about Easterly Parkway, Delta and Ferguson Township. Easterly Parkway comments and discussion tended toward ADA accessibility and encouraging more interactive play for children with sensory issues. Music devices, a play house and textures were mentioned as options for enhancing sensory engagement opportunities. Delta had a majority of the representation this evening.

Some of the favorite design proposal of the Delta students in attendance included the group swing and the group slide. The students appreciated the design for the nature climbers as they also encourage just sitting and socializing with friends. It was mentioned that the fields at the top of the hill would accommodate any ball field play. Ferguson Elementary mentioned a concern for stick play in the area designated for small parts play for building animal architecture or stacking sculpture. We discussed that there are several other types of small parts tools that can be used in lieu of sticks.

COMMUNITY ENGAGEMENT MEETING

APRIL 11, 2019

The last evening included conversation about Mount Nittany Elementary School, Mount Nittany Middle School and Spring Creek Elementary. There were about 10-15 community members in attendance including several from the Radio Park community. There were limited comments on Mount Nittany Elementary and Middle schools. The main comment was to account for basketball hoops. Spring Creek was hoping to see the proposed trees were native species, a slide and more climbing (traditional equipment type). Radio Park

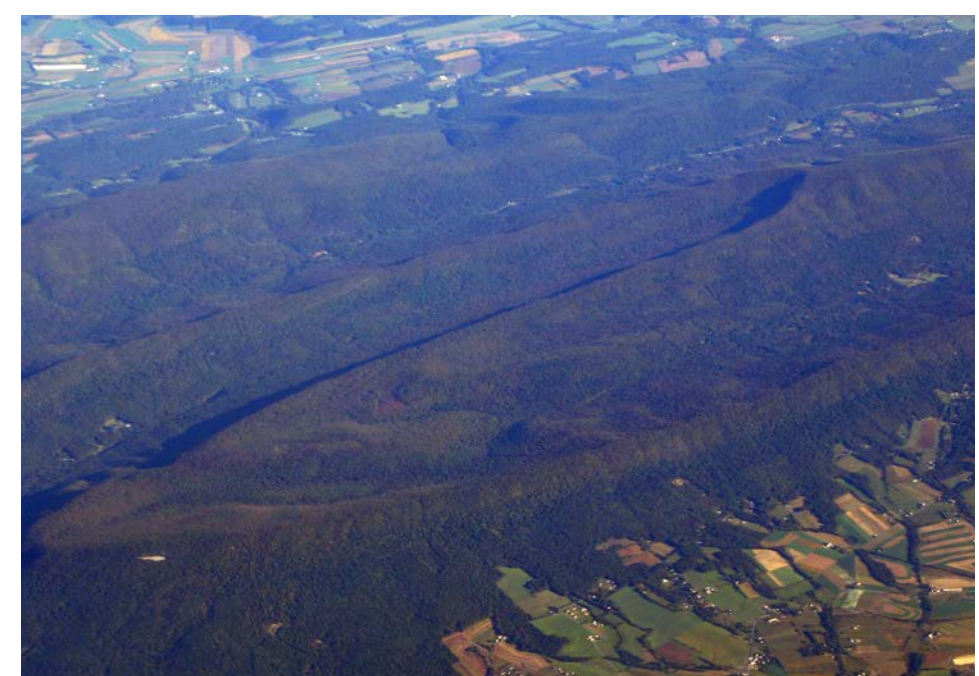
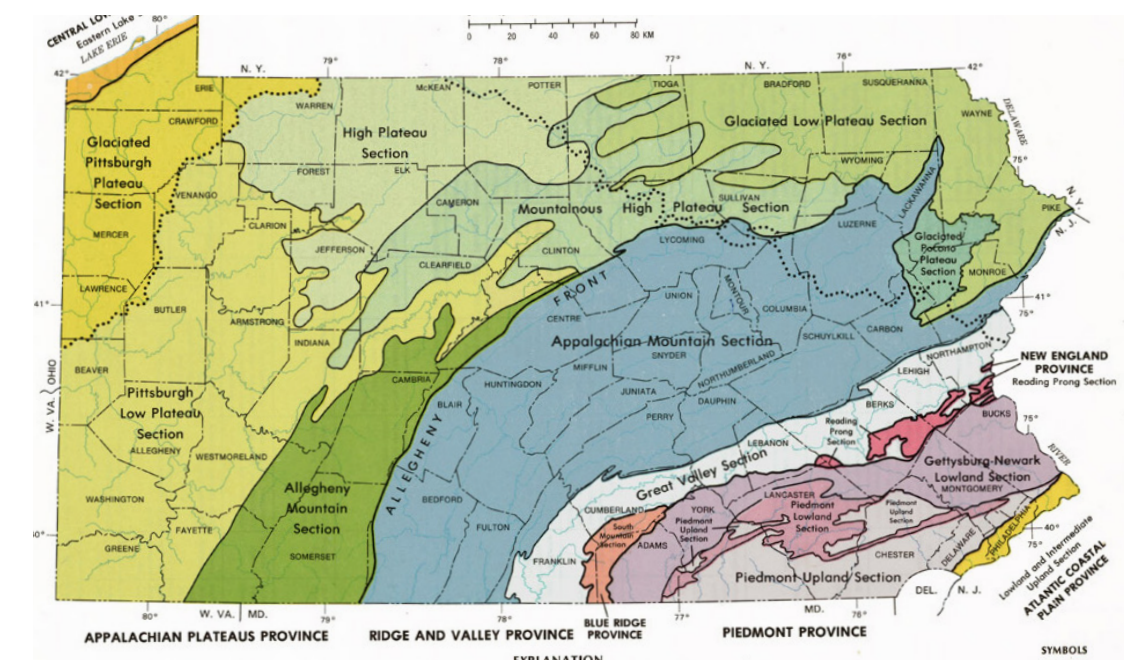
comments included removing the proposed zipline, including a slide and spinning equipment, more vertical play and that it felt too spread out.

Timestamp	Phase Location and School	Feedback from community member
4/22/2019 11:52:39	Radio Park	I have some concerns about the playscape that was shared. I don't see enough equipment for the children to play on. Supervision may also be an obstacle with this set up
4/22/2019 14:14:32	Radio Park	It doesn't look like there is a lot of climbing equipment in the plan. Could more be added in addition to the natural hardscapes? My daughter said that swings were often busy and it looks like there were less than they had before. Can more swings be added, too? Thank you!
4/22/2019 16:56:25	Spring Creek	The overall design looks interesting. I am wondering if all the logs are actual real logs or fake wood? I am concerned obviously about splinters but also the long term sustainability of something like that. We had many wonderful toys before construction and upon showing my three children the future play ground they all asked where the old equipment was. They liked the colorful slides, the tetherball, the spider web to climb. If anything was changed my oldest son going into 5th really wants longer monkey bars to challenge himself on something that has more than 6 bars. He loves Ninja War courses so if something more along those lines could be incorporated all our boys would be fan of that! It seems like a lot of work and money could be spent on this new plan and I think my children aren't looking for mounds to run up and down on, we have hills everywhere. They really just want some great slides, swings and some of those old classic toys.
4/23/2019 7:05:37	Spring Creek	I am concerned with ticks. Pennsylvania is the leading state of cases of Lyme disease and these nature playgrounds are the perfect habitat for them to propagate where are children are playing.
4/23/2019 9:27:27	Ferguson Township	I'm excited to see more natural elements in place with the chance to use creative play!
4/23/2019 10:04:18	Ferguson Township	You have my full support! I love the nature-based open-play. It's difficult not to compare our playground with the other schools', and I am hoping we could have more space intended for empathy, emotional regulation, social cues, or quiet thinking accessible during recess for the little ones. My kindergartner comes home with all kinds of drama-filled stories of social interactions at recess :)
4/23/2019 11:03:51	Mount Nittany Elementary Bemel Rd. Park	I am a staff member at MNE. One thing we always complain about is MUD. Kids miss recess on days where we could be outside but because of the mud they don't get full use of the playground area. They often walk the track and lose free-play time. Other schools do not have this luxury and might possibly miss recess all together. This also happens in winter because it turns to ice. It would be nice to see the muddy/ grassy areas changed to a more weather friendly surface. Something Comparable to the surface at
4/23/2019 13:46:00	Radio Park	It would be nice to have a basketball court. The design is beautiful but coming from a mom of boys it seems to need more equipment.
4/23/2019 13:58:38	Ferguson Township	Appreciate the natural materials and look alongside the traditional playground space.
		I just showed it to my 3rd grader and kindergartner; the third grader immediately said, "Where's all the play equipment?" She liked it but said she would "put in some slides and stuff."
		My kids went to Penn Mont in Altoona for awhile, and they have this lovely sort of natural outdoor play area that seems similar to what is shown for Spring Creek. BUT, they also had a LOT more time outside and more time to develop the sort of imaginative and social play those areas would work well for. I don't think this sort of area is well suited for kids who get 20 minutes to play. They need some quick climbing and large muscle movement activities. I hope that the area also includes basketball courts and the existing play equipment (the orange and purple slide etc.)
		I also wonder how well the piles of logs and wood will fare in harsh PA winters.
		It's also disappointing to have the playground committee was hard to find. In the future, it would be great to have a committee of people invited to be a part of these committees. It would be a great way to engage the community and get their input on the design process.

ONLINE COMMENTS

The State College Area School District provided a link on the district's website for those community members who could not attend any of the four community meetings held in early/mid April, 2019. While not all of the comments could be incorporated into the masterplan process, the team took care to review with the district what could be incorporated now and what could be considered during the implementation design process for each phase for each school. Not all comments/suggestion will be able to be implemented due to restraints and considerations not specified in this section and due to the fact that some comments/suggestions conflict with others. However, it is a great feature to promote conversation and input and goes a long way to ensure many points of interest are considered.

<https://www.scasd.org/cms/lib/PA01000006/Centricity/Domain/1/CommInput.pdf>



OVERALL NARRATIVE

We propose creating nature based playful interactions that find inspiration in the regional landscape of the ridge-and-valley topography of the Appalachian mountains. The opportunity for play in the landscape is highlighted by operations of modification, addition, deletion and opportunistic interventions on the land. The region's long, even ridges and continuous valleys and the challenges of moving against them perpendicularly are reimagined at a different scale and playfully reinterpreted. Each site has a slightly different approach based on the individual landscape and spirit of the community. These influences are expressed in the experiential, play and learning opportunities on each site.

We have used landforms, boulders, logs, trees and grasses – among other things – to create full body interactions, social spaces and pensive opportunities. Group play is emphasized with slides and swings for more than one to use at a time. Open-ended play is at the heart of this process.



PRECEDENTS



PRECEDENTS



PLAYGROUND MASTER PLANS



EASTERLY PARKWAY ELEMENTARY SCHOOL



NATURE PLAY & EQUIPMENT PLAY DIAGRAM



- 1 Group Swings**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 2 Rod Forest**
- Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit
- 3 Group Embankment Slide**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 4 Landscape Mounds**
- Vestibular, Proprioceptive, Ability to sit,
- 5 ADA Path**
- 6 Wheelchair Swing**
- Vestibular, Proprioceptive, Ability to sit
- 7 Existing Swings (8), Slide, & Seesaw to Remain**
- 8 Teacher Lookout**
- 9 Playhouse**
- 10 Balance Logs**
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit
- 11 Existing Balance Beam and Steppers to Remain**
- 12 Existing Swings (15) to Remain**
- 13 Existing Asphalt to Remain**
- 14 Ball Play Area**



ACTIVITY DIAGRAM

- Transfer Station
- Accessible Equipment
- Accessible Path
- Accessible Surfacing



ACCESSIBILITY DIAGRAM

- ① ADA Paths
- ② Relocated Wheelchair Swing
- ③ Existing Swings (15) to Remain
- ④ Shade Trees
- ⑤ Grass Mounds
- ⑥ Log Climber Mound
- ⑦ Mound with Pathway Climber
- ⑧ Existing Swings (8), Slide, and Seesaw to Remain
- ⑨ Existing Equipment (Balance Beam, Steppers) to Remain
- ⑩ Grass Mound with Boulder Seating



PHASE A PLAN



- ① Group Embankment Slide
- ② Accessible Surfacing (EWF)
- ③ Balance Logs
- ④ Rod Forest
- ⑤ Log Scramble
- ⑥ Group Swings



COMPLETED MASTER PLAN





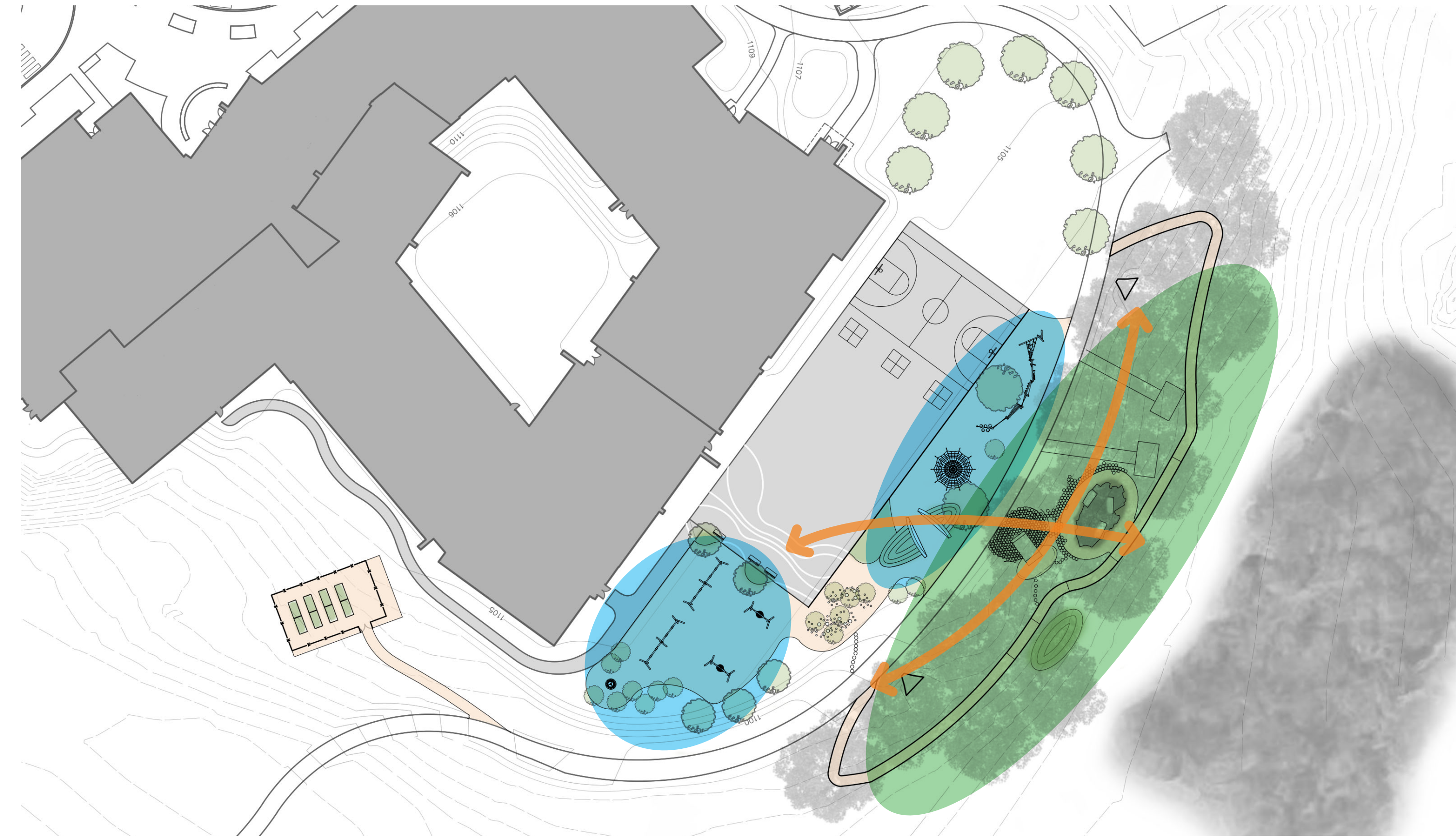
CONCEPT RENDERING



MODEL IMAGERY



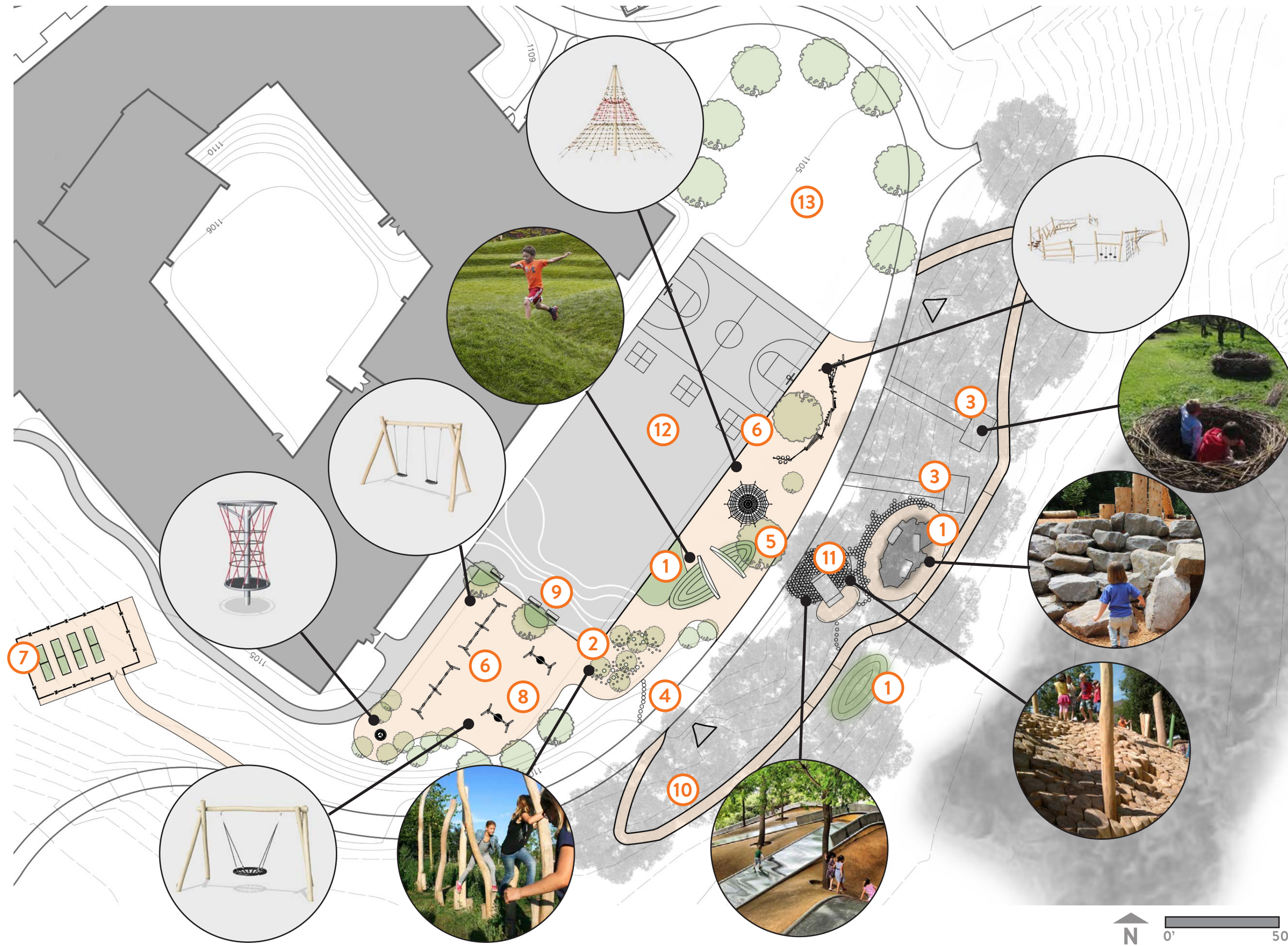
RADIO PARK ELEMENTARY SCHOOL



NATURE PLAY & EQUIPMENT PLAY DIAGRAM



- 1 Landscape Mounds**
- Vestibular, Proprioceptive, Ability to sit, Creativity
- 2 Rod Forest**
- Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit
- 3 Lookout platform/Tinkerscape**
- Creativity, Collaboration, Creativity
- 4 Tree cookie path**
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit
- 5 Teacher Lookout**
- 6 Equipment**
- 7 Pollinator Garden**
- Communication, Empathy, Social Cues
- 8 Group Swings**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 9 Shaded Seating**
- Mental Health, Emotional Regulation
- 10 ADA Path**
- 11 Group Embankment Slide**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 12 Recommended Asphalt Area**
- 13 Ball Play Area**



ACTIVITY DIAGRAM

- Transfer Station
- Accessible Equipment
- - - Accessible Path
- Accessible Surfacing



ACCESSIBILITY DIAGRAM

- ① Group Swings
- ② Swings
- ③ Rod Forest
- ④ ADA Path
- ⑤ Shade Trees & Benches
- ⑥ Mound with Pathway Climber
- ⑦ Parkour Climber
- ⑧ Tree Climber Equipment
- ⑨ Twister Equipment
- ⑩ Basketball Hoops (2)
- ⑪ Tree Cookie Path



PHASE A PLAN

- ① Lookout platform/Tinkerscape
- ② Group Embankment Slide
- ③ Log Stepper Mound
- ④ Grass Mound
- ⑤ Boulder Mound



COMPLETED MASTER PLAN



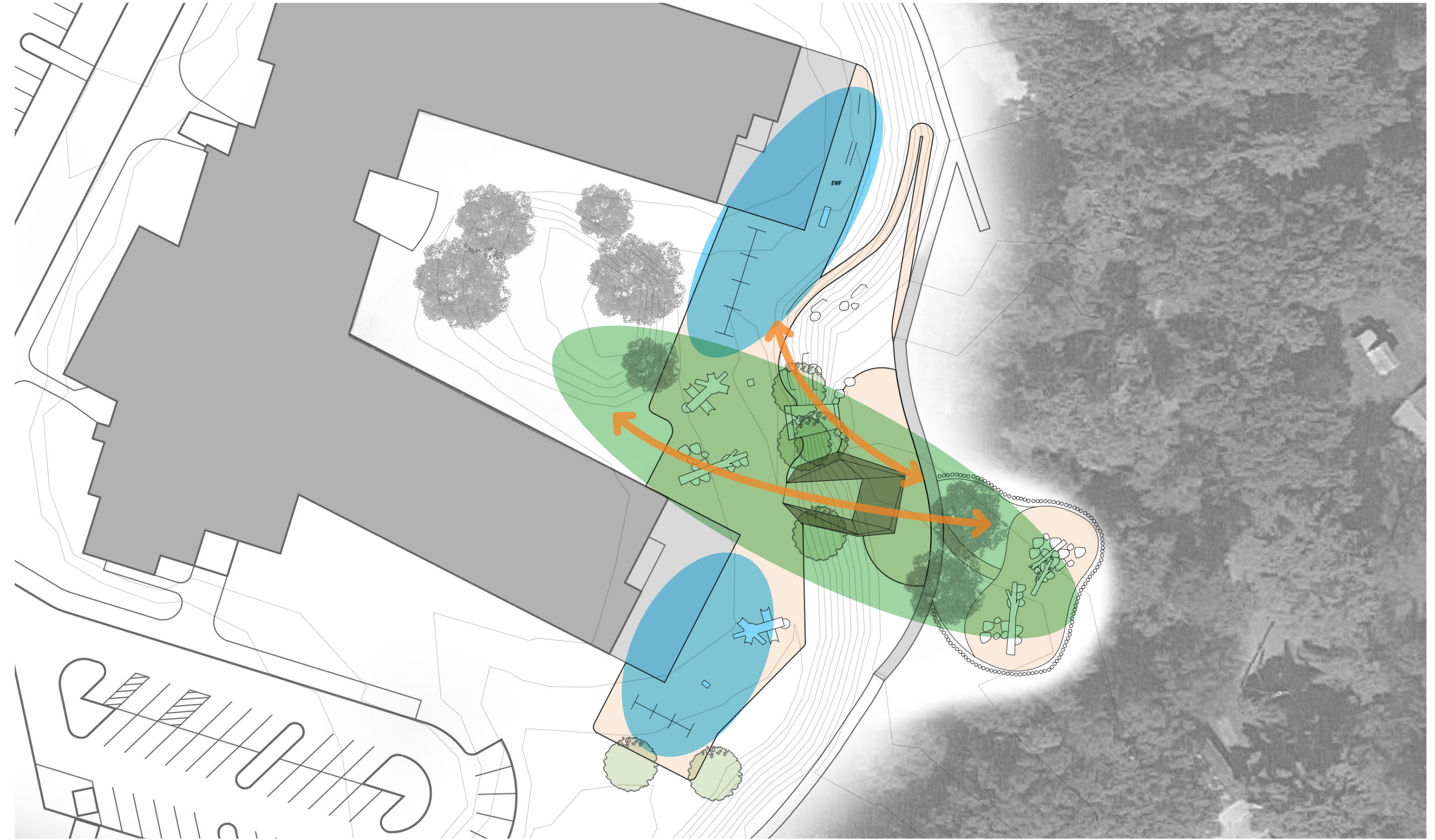
CONCEPT RENDERING



MODEL IMAGERY



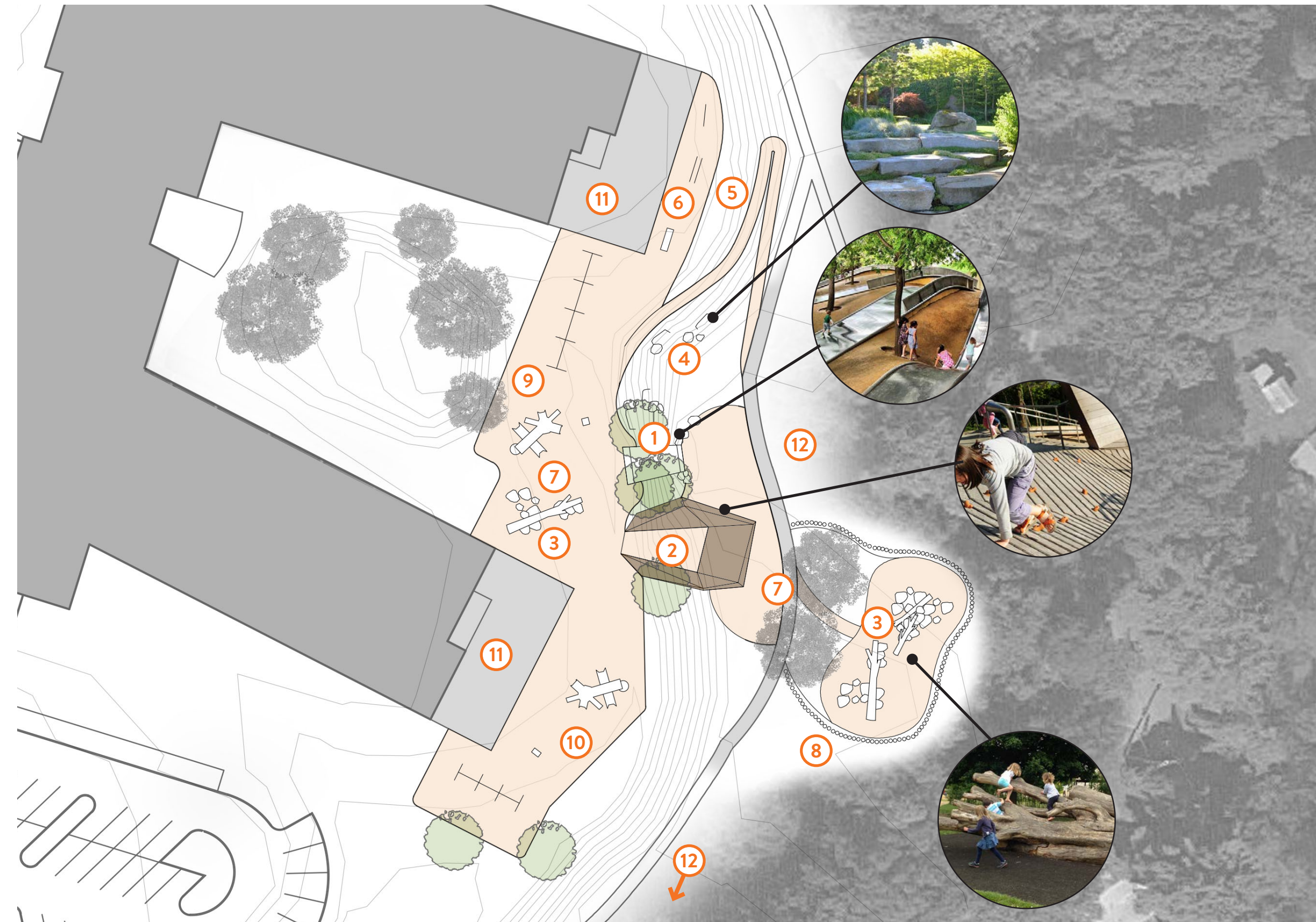
GRAY'S WOODS ELEMENTARY SCHOOL



NATURE PLAY & EQUIPMENT PLAY DIAGRAM

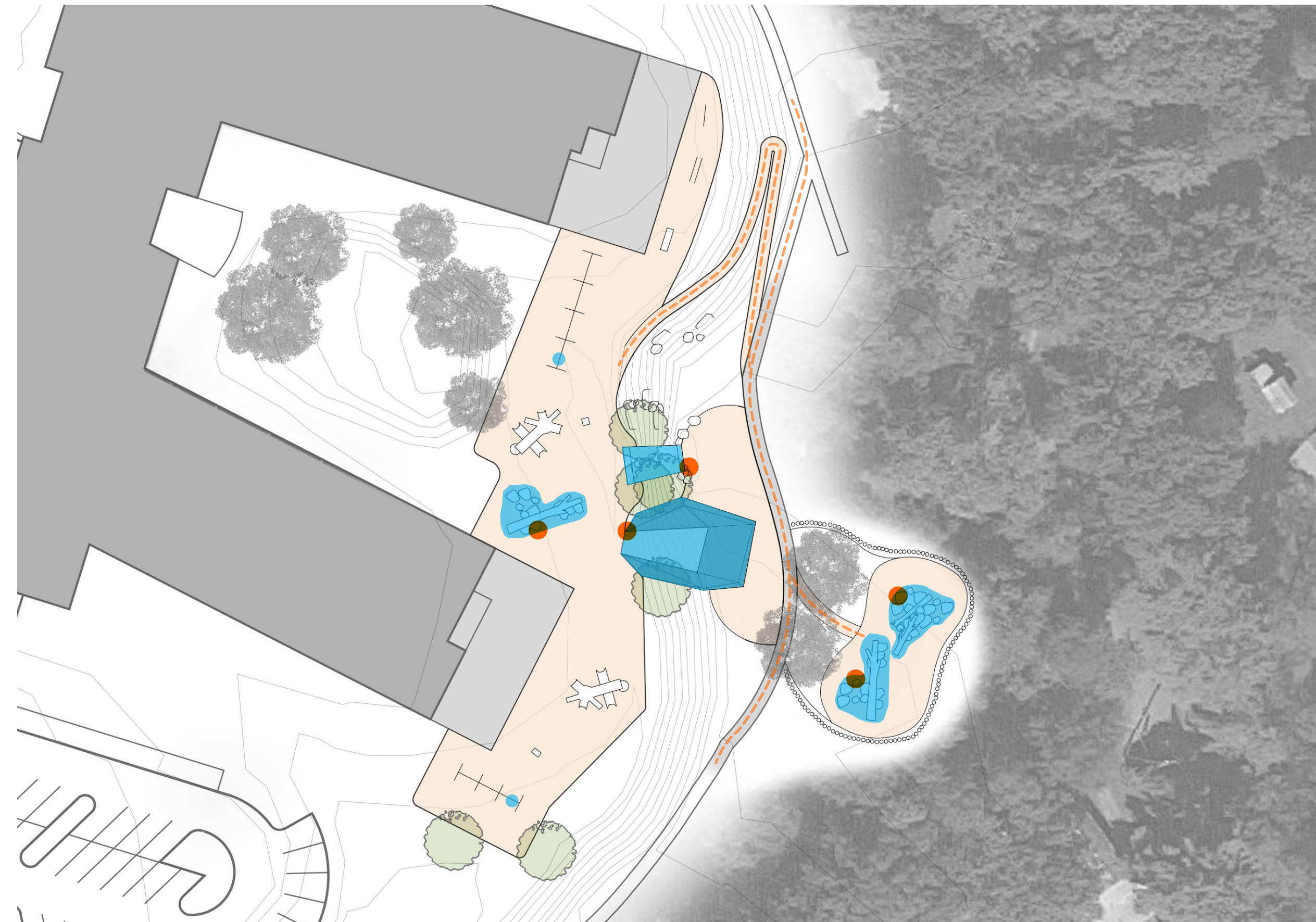


- 1 Group Embankment Slide**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 2 Fractured Climber**
- Critical Thinking, Confidence, Communication, Empathy, Social Cues
- 3 Log and Boulder Scramble**
- Critical Thinking, Confidence, Creativity, Collaboration
- 4 Boulder Seating**
- Mental Health, Emotional Regulation
- 5 ADA Path**
- 6 Existing Equipment (Gymnastics Bars) to Remain**
- 7 Teacher Lookout**
- 8 Tree cookie path**
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit
- 9 Existing Equipment (Composite Structure, Swings (8)) to Remain**
- 10 Existing Equipment (Composite Structure, Tunnel, & Swings (6)) to Remain**
- 11 Existing Asphalt Area**
- 12 Ball Play Area**

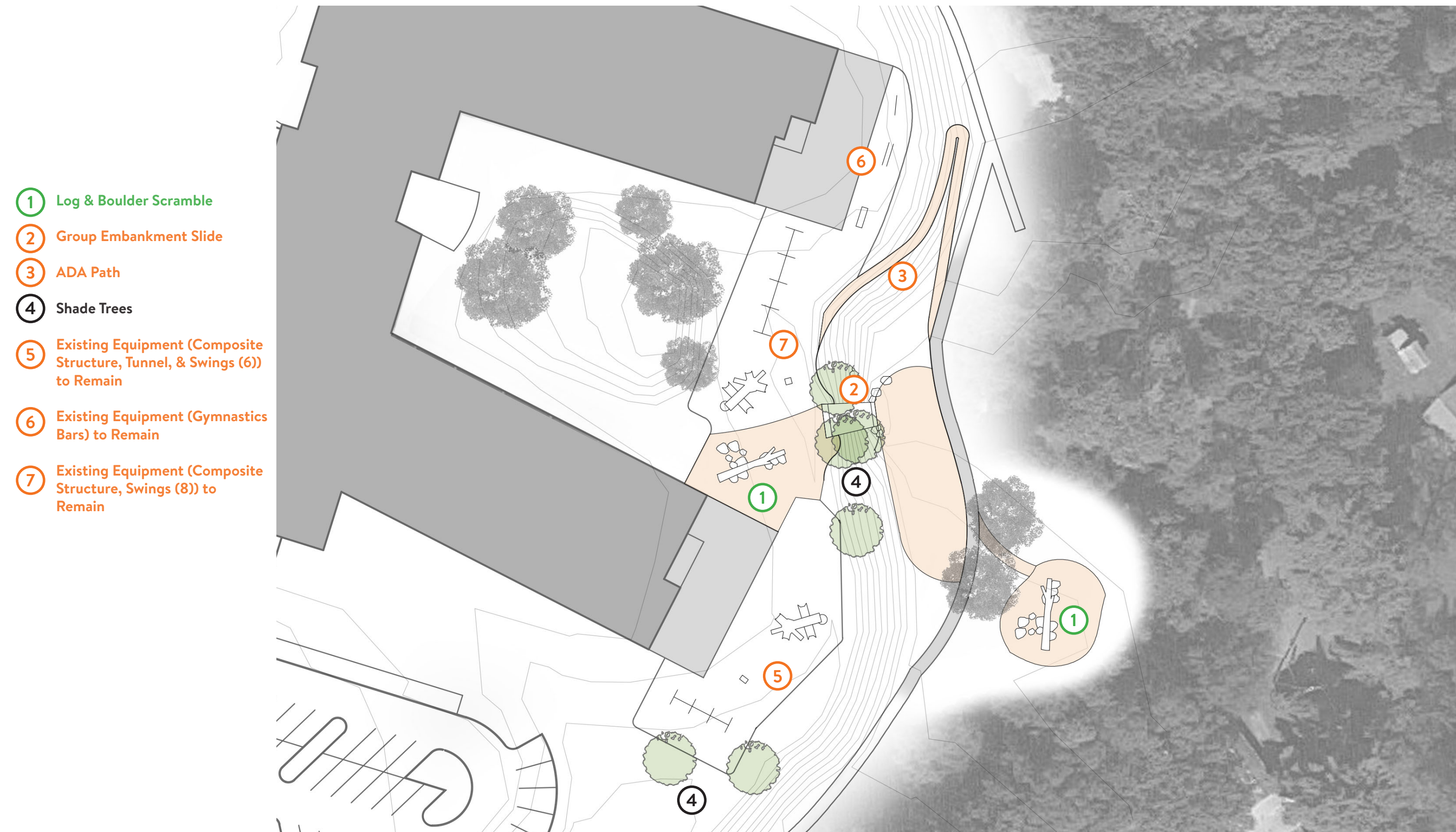


ACTIVITY DIAGRAM

- Transfer Station
- Accessible Equipment
- Accessible Path
- Accessible Surfacing



ACCESSIBILITY DIAGRAM



- ① Log & Boulder Scramble
- ② Group Embankment Slide
- ③ ADA Path
- ④ Shade Trees
- ⑤ Existing Equipment (Composite Structure, Tunnel, & Swings (6)) to Remain
- ⑥ Existing Equipment (Gymnastics Bars) to Remain
- ⑦ Existing Equipment (Composite Structure, Swings (8)) to Remain

PHASE A PLAN



- ① Fractured Climber/Outdoor Classroom
- ② Tree Cookie Path
- ③ ADA Surfacing (EWF)
- ④ Hillside Stone Slab Seating
- ⑤ Log and Boulder Scramble

COMPLETED MASTER PLAN





CONCEPT RENDERING



MODEL IMAGERY

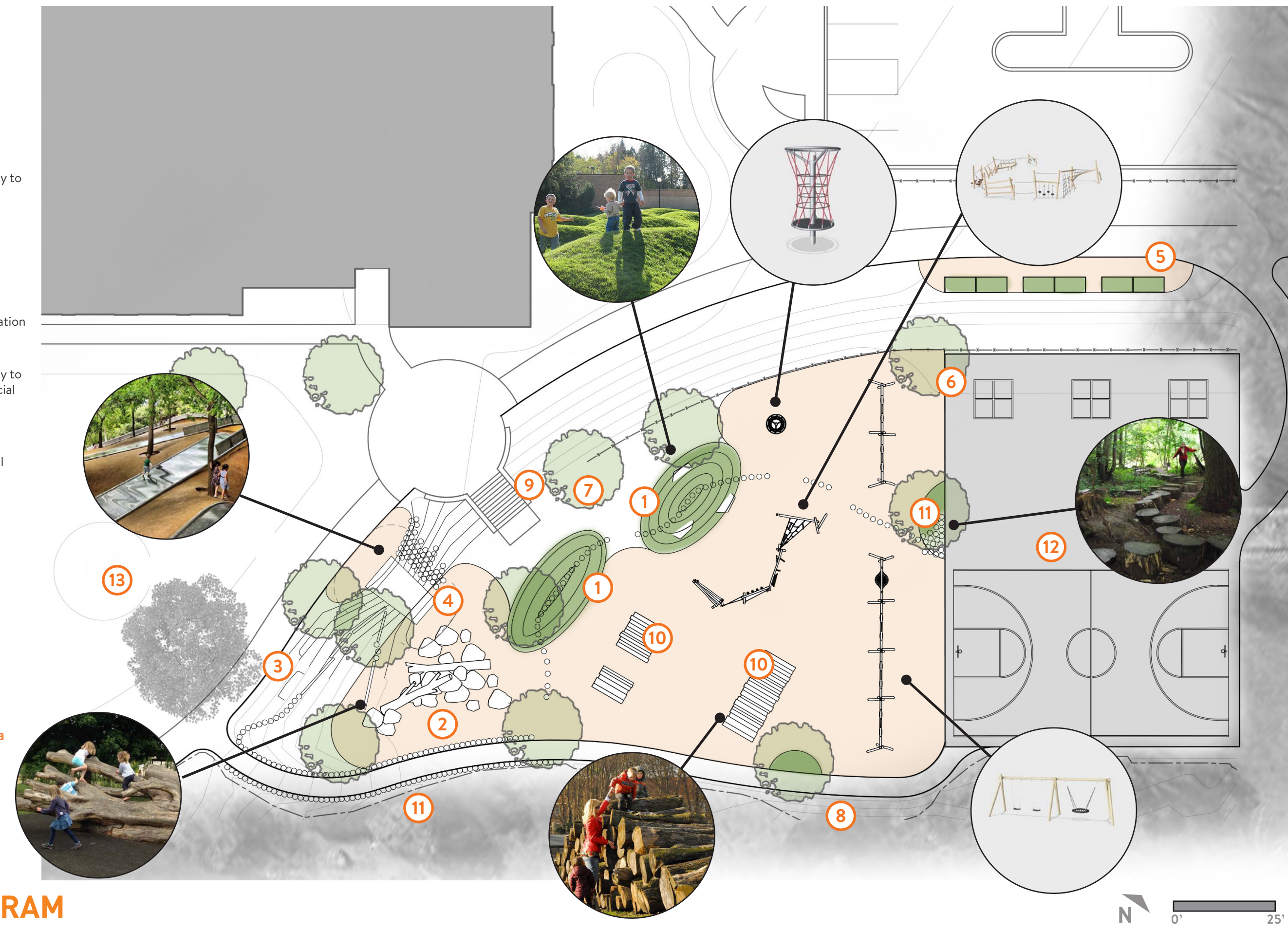


CORL STREET ELEMENTARY SCHOOL

NATURE PLAY & EQUIPMENT PLAY DIAGRAM



- 1 Landscape Mounds**
- Vestibular, Proprioceptive, Ability to sit, Creativity
- 2 Log and Boulder Scramble**
- Critical Thinking, Confidence, Creativity, Collaboration
- 3 Boulder Seating**
- Mental Health, Emotional Regulation
- 4 Group Embankment Slide**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 5 Pollinator Garden**
- Communication, Empathy, Social Cues
- 6 Equipment**
- 7 Teacher Lookout**
- 8 ADA Path**
- 9 Log Scramble**
- 10 Stacked Log Mound**
- 11 Tree Cookie Path**
- 12 Recommended Asphalt Area**
- 13 Ball Play Area**



ACTIVITY DIAGRAM

- Transfer Station
- Accessible Equipment
- Accessible Path
- Accessible Surfacing



ACCESSIBILITY DIAGRAM

- ① Group Swings
- ② Swings
- ③ Shade Trees
- ④ Log & Boulder Scramble
- ⑤ Grass Mound
- ⑥ Stacked Log Mound
- ⑦ Parkour Climber
- ⑧ Twister Equipment
- ⑨ Pollinator Garden
- ⑩ Grass Mound with Stone Slab Seating
- ⑪ Basketball Hoops (2)



PHASE A PLAN



- ① Group Embankment Slide
- ② Log Stepper
- ③ Hillside Stone Slab Seating
- ④ Tree Cookie Path
- ⑤ Accessible Path



COMPLETED MASTER PLAN





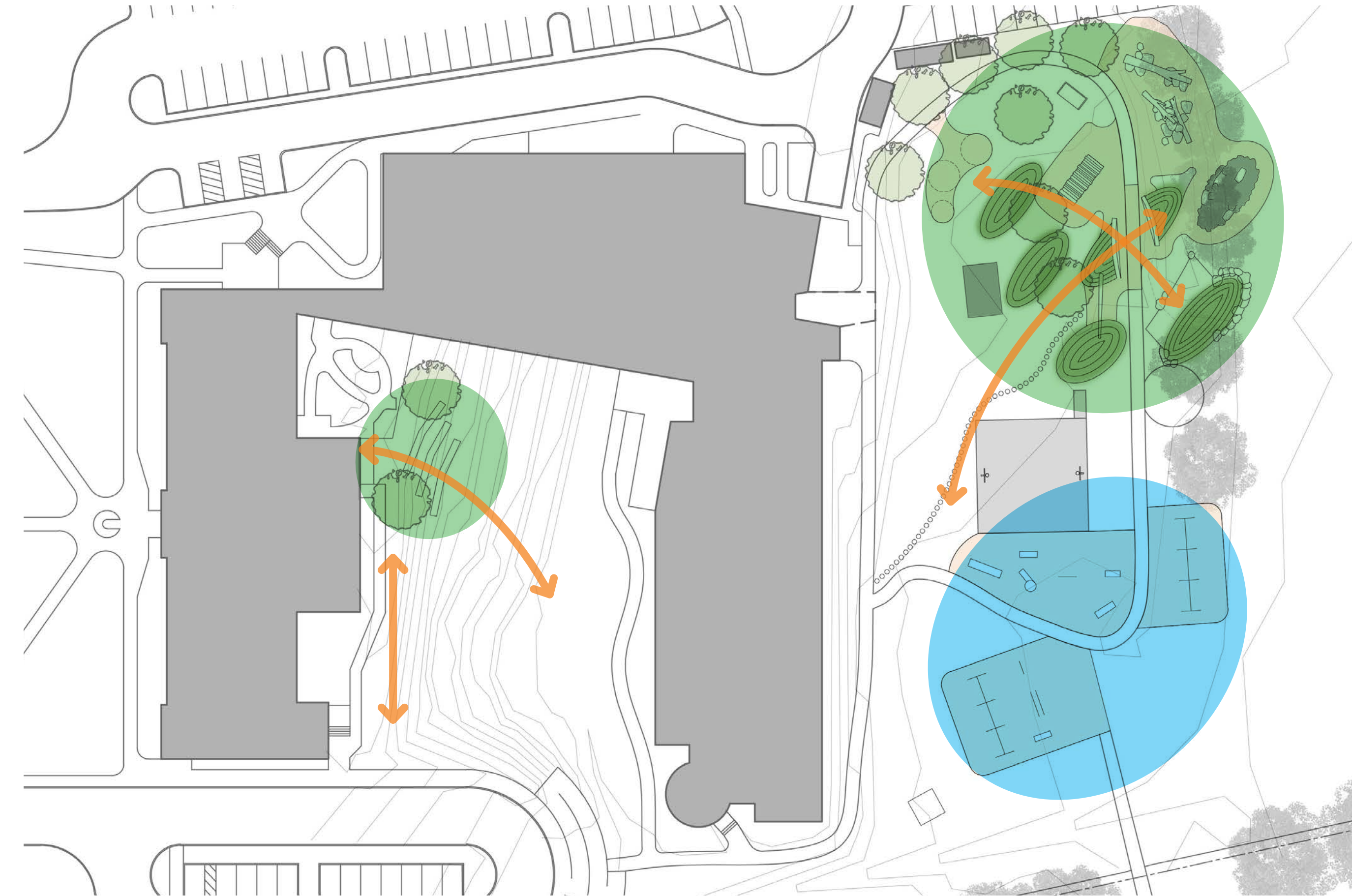
CONCEPT RENDERING



MODEL IMAGERY



FERGUSON TOWNSHIP ELEMENTARY SCHOOL



NATURE PLAY & EQUIPMENT PLAY DIAGRAM

- 1 Outdoor Classroom**
- Communication, Empathy, Social Cues
- 2 Tree Cookie Path**
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit
- 3 Tinkerscape**
- Creativity, Collaboration, Creativity
- 4 Landscape Mounds**
- Vestibular, Proprioceptive, Ability to sit, Creativity
- 5 Log & Boulder Scramble**
- Critical Thinking, Confidence, Creativity, Collaboration
- 6 Existing Equipment (Gymnastics Bar, Slides (2), Tunnel, Rocker) to Remain**
- 7 Teacher Lookout**
- 8 Existing Asphalt Area**
- 9 Stacked Log Mound**
- 10 Boulder Mound**
- 11 Ball Play Area**
- 12 Relocated Playhouse**
- 13 Existing Swings (8) to Remain**
- 14 Existing Equipment (Gymnastics Bars, Slide, Swings (6)) to Remain**



ACTIVITY DIAGRAM



- Transfer Station
- Accessible Equipment
- - - Accessible Path
- Accessible Surfacing

ACCESSIBILITY DIAGRAM



- ① Log & Boulder Scramble
- ② Stacked Log Mound
- ③ Tinkerscape
- ④ Shade Trees
- ⑤ Relocated Playhouse
- ⑥ Mound with Pathway Climber
- ⑦ Grass Mound
- ⑧ Boulder Mound
- ⑨ Balance Log
- ⑩ Existing Equipment (Gymnastics Bar, Slides (2), Tunnel, Rocker) to Remain
- ⑪ Existing Swings (8) to Remain
- ⑫ Existing Equipment (Gymnastics Bars, Slide, Swings (6)) to Remain



PHASE A PLAN



- ① Wood Bridge
- ② Tree Cookie Path
- ③ Accessible Surfacing
- ④ Outdoor Classroom



COMPLETED MASTER PLAN





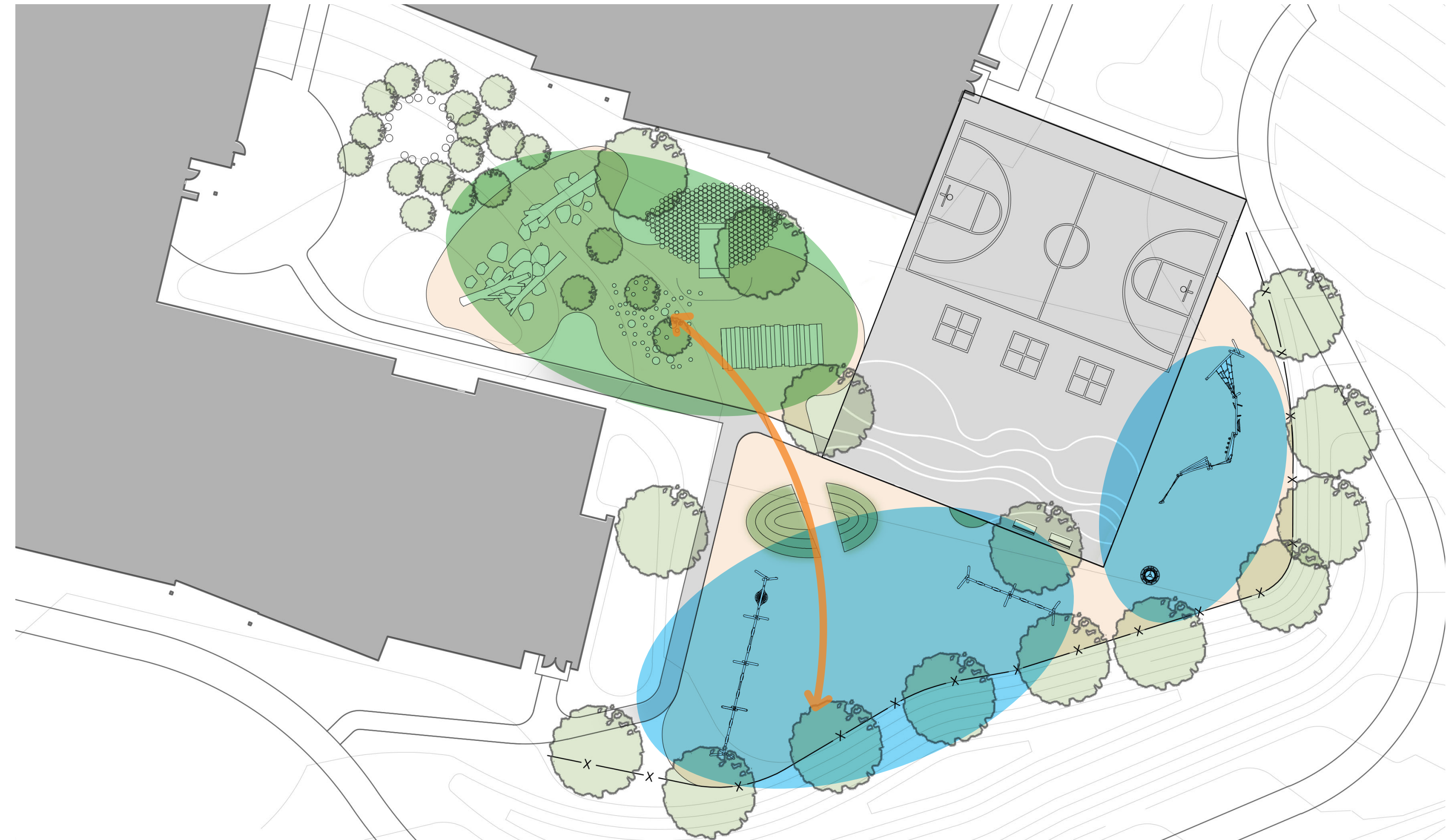
CONCEPT RENDERING



MODEL IMAGERY



SPRING CREEK ELEMENTARY SCHOOL



NATURE PLAY & EQUIPMENT PLAY DIAGRAM



- 1 Rod Forest**
- Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit
- 2 Landscape Mounds**
- Vestibular, Proprioceptive, Ability to sit, Creativity
- 3 Recommended Asphalt Area**
- 4 Log & Boulder Scramble**
- Critical Thinking, Confidence, Creativity, Collaboration
- 5 Equipment**
- 6 Teacher Lookout**
- 7 Group Embankment Slide**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 8 Ball Play Area**
- 9 Existing Equipment to be reinstalled**



ACTIVITY DIAGRAM

- Transfer Station
- Accessible Equipment
- Accessible Path
- Accessible Surfacing



ACCESSIBILITY DIAGRAM

- ① Group Swings
- ② Swings
- ③ Rod Forest
- ④ Shade Trees & Benches
- ⑤ Stacked Log Climber
- ⑥ Mound with Pathway Climber
- ⑦ Log & Boulder Scramble
- ⑧ Basketball Court
- ⑨ Twister Equipment
- ⑩ Existing Equipment to be reinstalled



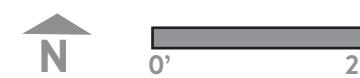
PHASE A PLAN



- ① Group Embankment Slide
- ② Parkour Equipment
- ③ Log Stepper Mound



COMPLETED MASTER PLAN

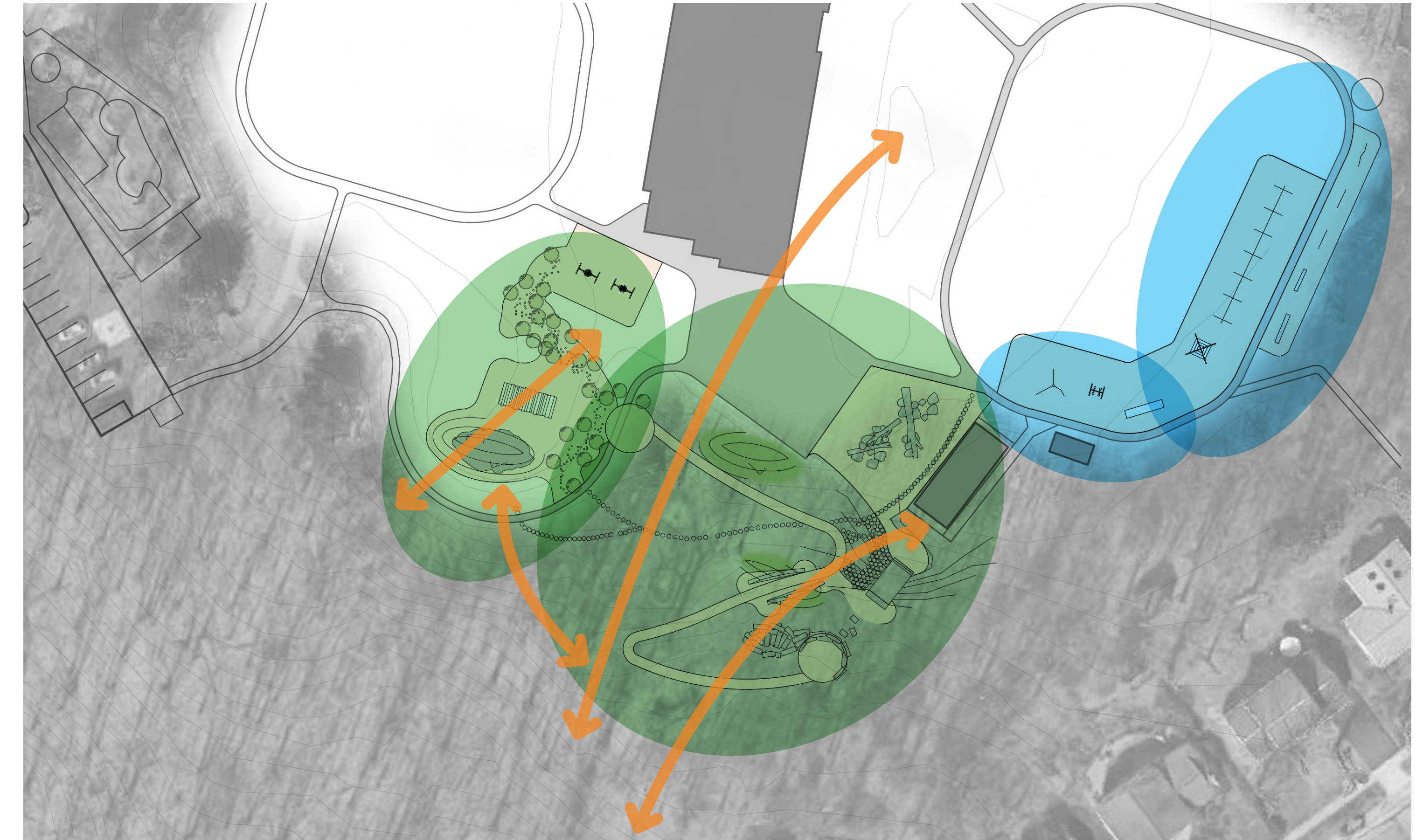
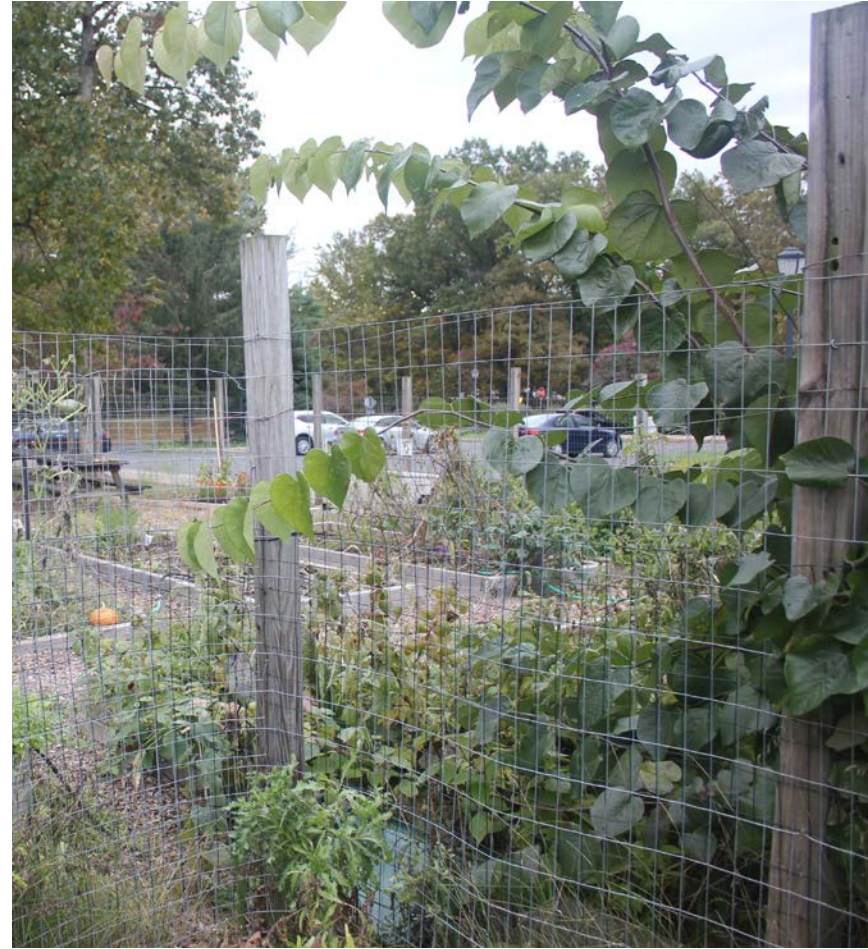




CONCEPT RENDERING



MODEL IMAGERY



PARK FOREST ELEMENTARY SCHOOL

NATURE PLAY & EQUIPMENT PLAY DIAGRAM



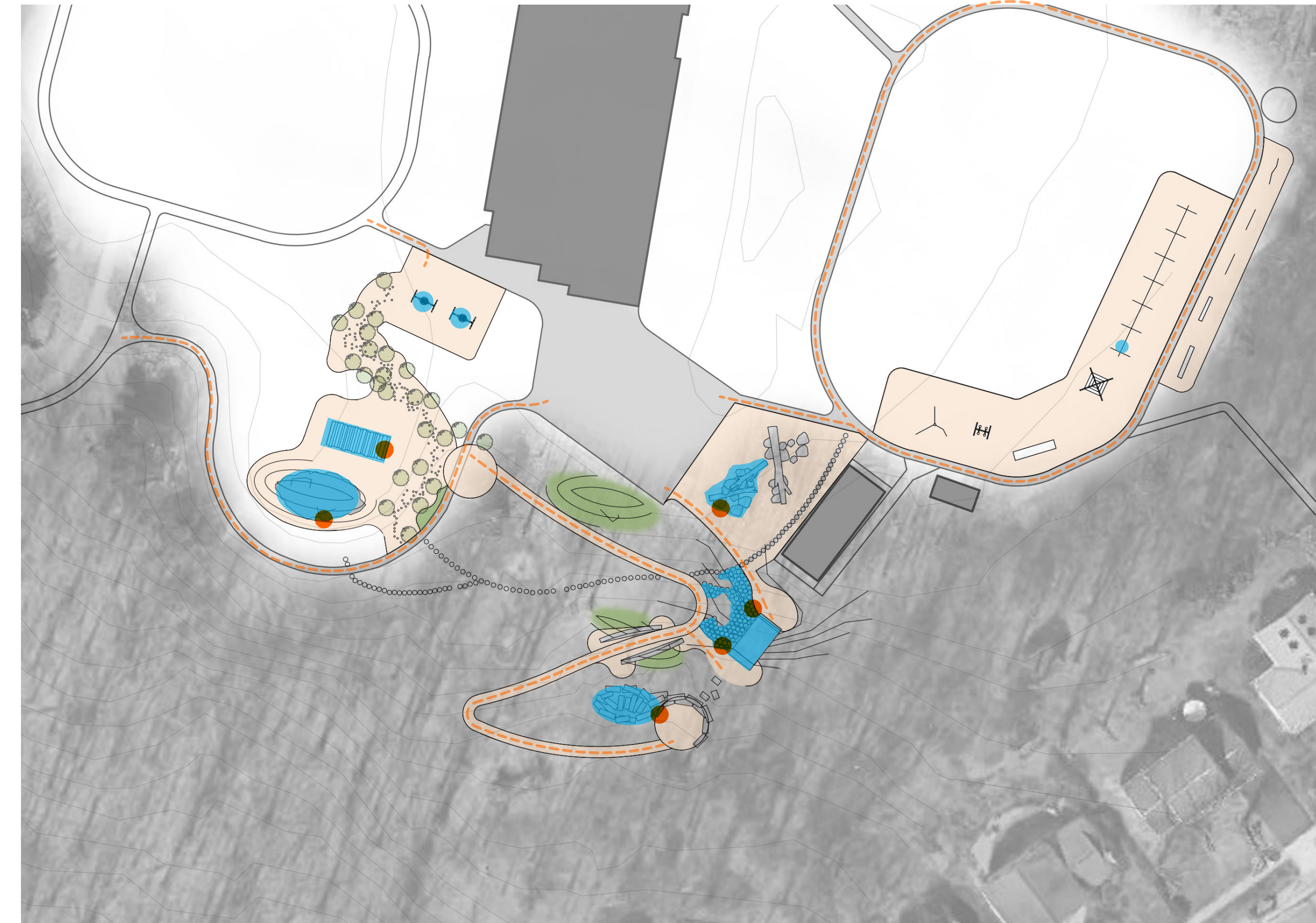
- 1 Log and Boulder Scramble**
- Critical Thinking, Confidence, Creativity, Collaboration
- 2 Group Embankment Slide**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 3 Landscape Mounds**
- Vestibular, Proprioceptive, Ability to sit, Creativity
- 4 ADA Path**
- 5 Rod Forest**
- Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit
- 6 Stacked Log Mound**
- 7 Group Swings**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 8 Existing Equipment (Swings (12) Net Climber) to Remain**
- 9 Teacher Lookout**
- 10 Tree cookie path**
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit
- 11 Outdoor Classroom**
- 12 Existing Asphalt Area**
- 13 Ball Play Area**
- 14 Existing Equipment (Slide, Seesaw, Rock Climber) to Remain**
- 15 Existing Equipment (Gymnastics Bars, Balance Beam) to Remain**



ACTIVITY DIAGRAM



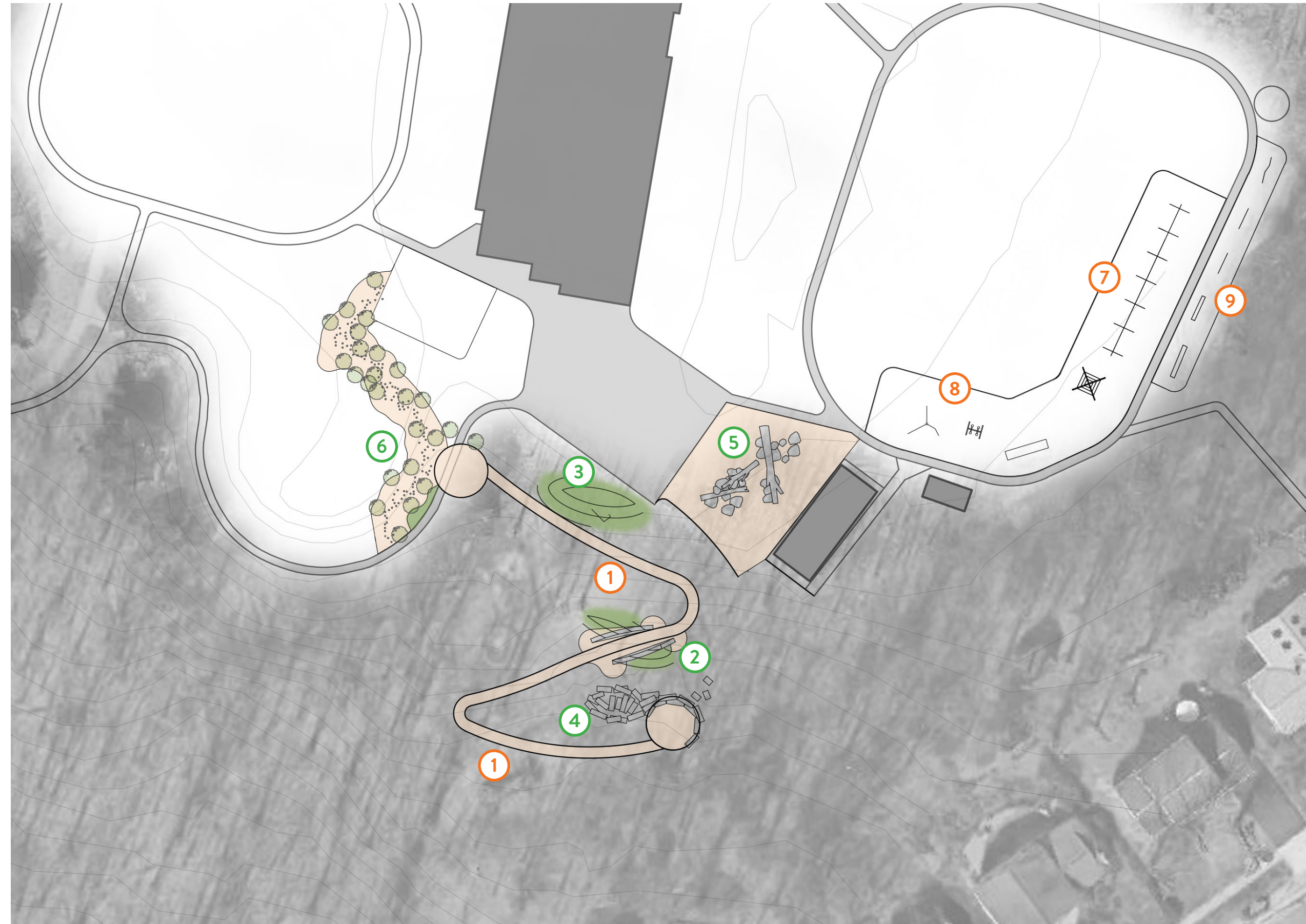
- Transfer Station
- Accessible Equipment
- - - Accessible Path
- Accessible Surfacing



ACCESSIBILITY DIAGRAM



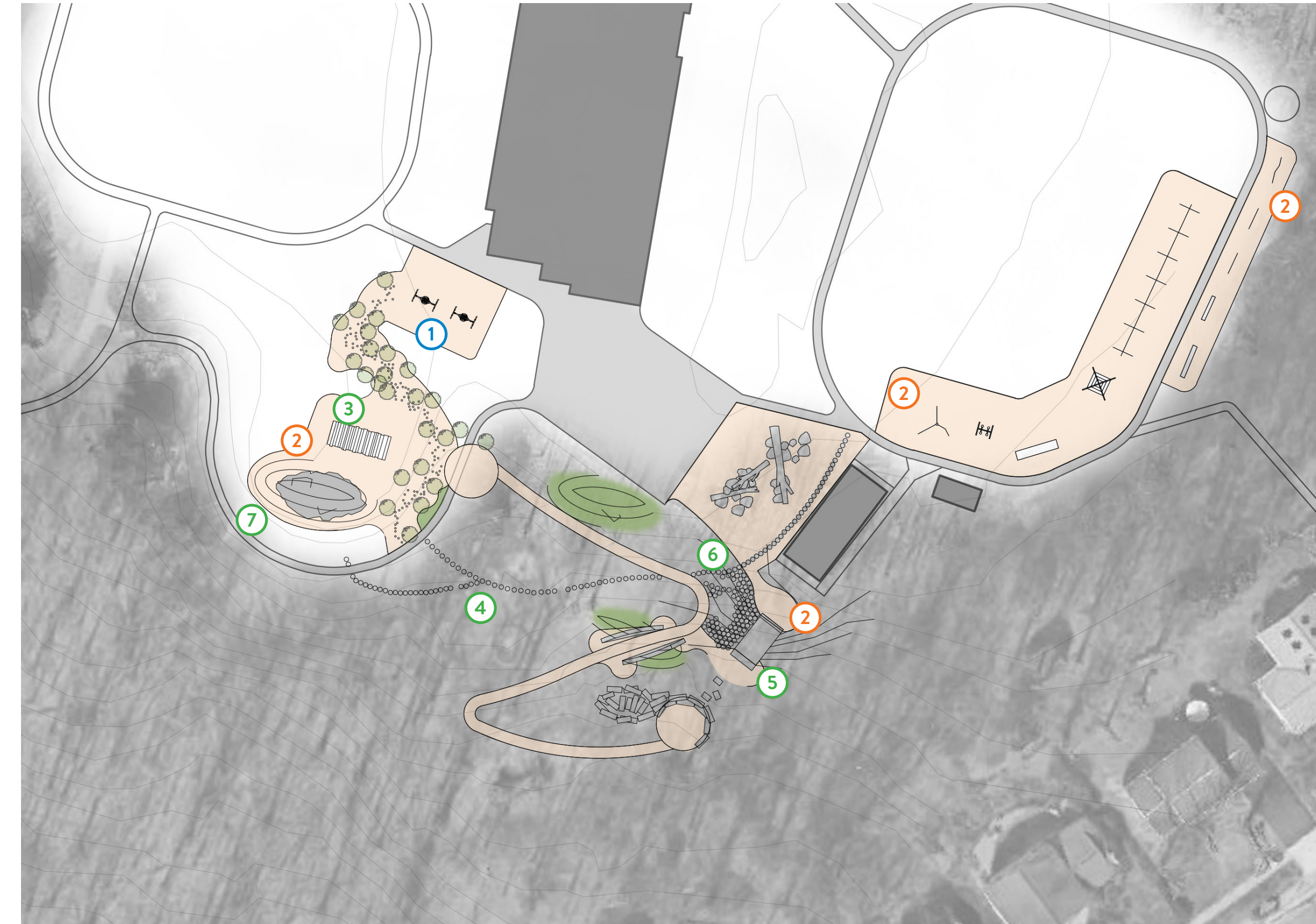
- ① ADA Path
- ② Mound with Pathway Climber
- ③ Grass Mound
- ④ Stone Mound and Outdoor Classroom
- ⑤ Log & Boulder Scramble
- ⑥ Rod Forest
- ⑦ Existing Equipment (Swings (12) Net Climber) to Remain
- ⑧ Existing Equipment (Slide, Seesaw, Rock Climber) to Remain
- ⑨ Existing Equipment (Gymnastics Bars, Balance Beam) to Remain



PHASE A PLAN



- ① Group Swings
- ② Accessible Surfacing
- ③ Stacked Log Mound
- ④ Tree Cookie Path
- ⑤ Group Embankment Slide
- ⑥ Log Steppers
- ⑦ Blouder Mound



COMPLETED MASTER PLAN





CONCEPT RENDERING



MODEL IMAGERY



PARK FOREST MIDDLE SCHOOL

NATURE PLAY & EQUIPMENT PLAY DIAGRAM



- 1 Log and Boulder Scramble**
- Critical Thinking, Confidence, Creativity, Collaboration
- 2 Group Embankment Slide**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 3 Tinkerscape**
- Creativity, Collaboration, Communication
- 4 Hammock Hangout**
- Communication, Empathy, Social Cues
- 5 Hillside Seating**
- Communication, Empathy, Social Cues
- 6 Swings**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 7 Existing Asphalt Area**



ACTIVITY DIAGRAM



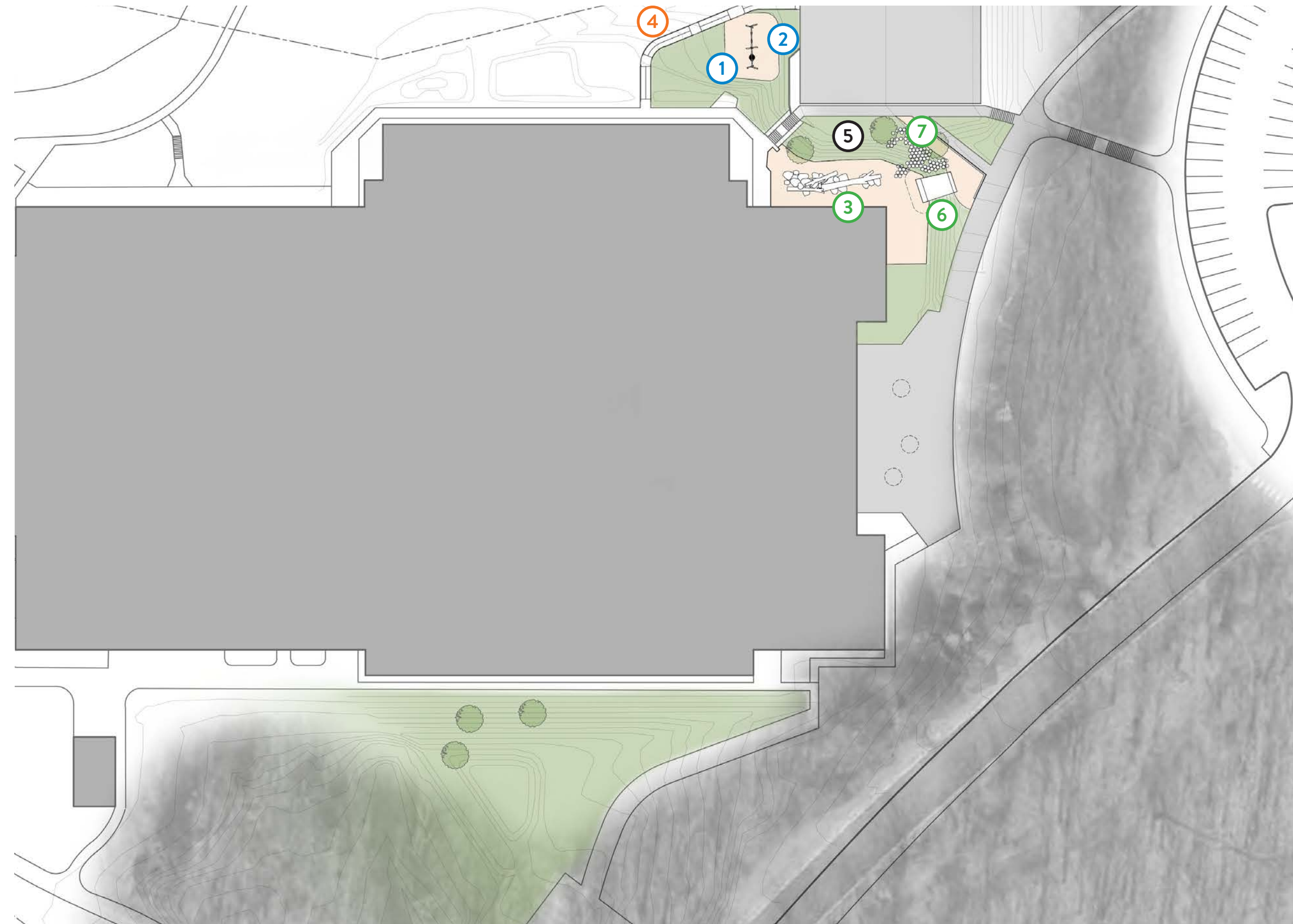
- Transfer Station**
- Accessible Equipment**
- Accessible Path**
- Accessible Surfacing**



ACCESSIBILITY DIAGRAM



- ① Group Swings
- ② Swings
- ③ Log & Boulder Scramble
- ④ ADA Path
- ⑤ Shade Trees & Benches
- ⑥ Group Embankment Slide
- ⑦ Log Scramble



PHASE A PLAN



- ① Group Embankment Slide
- ② Log Scramble
- ③ Stone Slab Seating
- ④ Hammock Hangout



COMPLETED MASTER PLAN

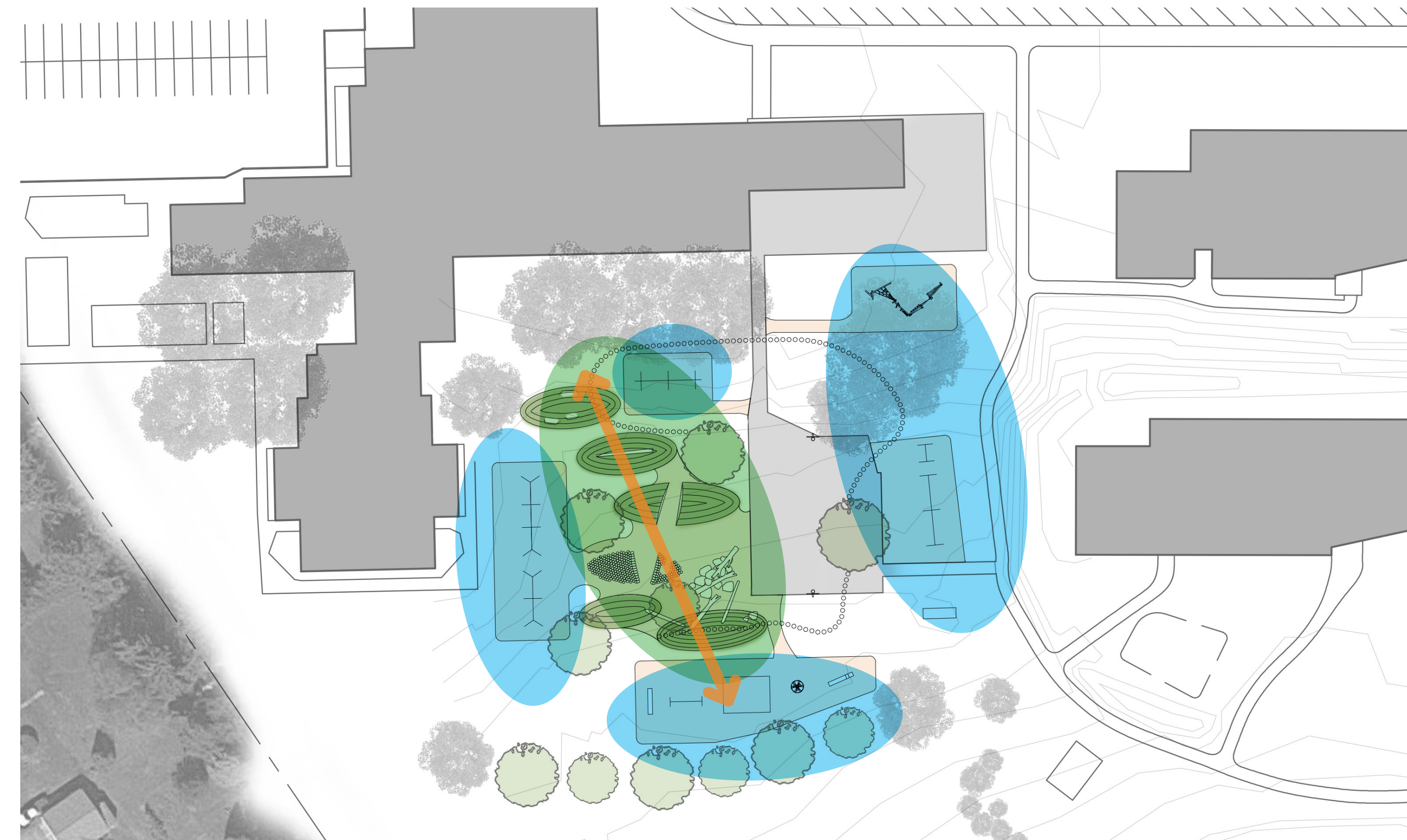




CONCEPT RENDERING



MODEL IMAGERY



MT. NITTANY ELEMENTARY SCHOOL

NATURE PLAY & EQUIPMENT PLAY DIAGRAM







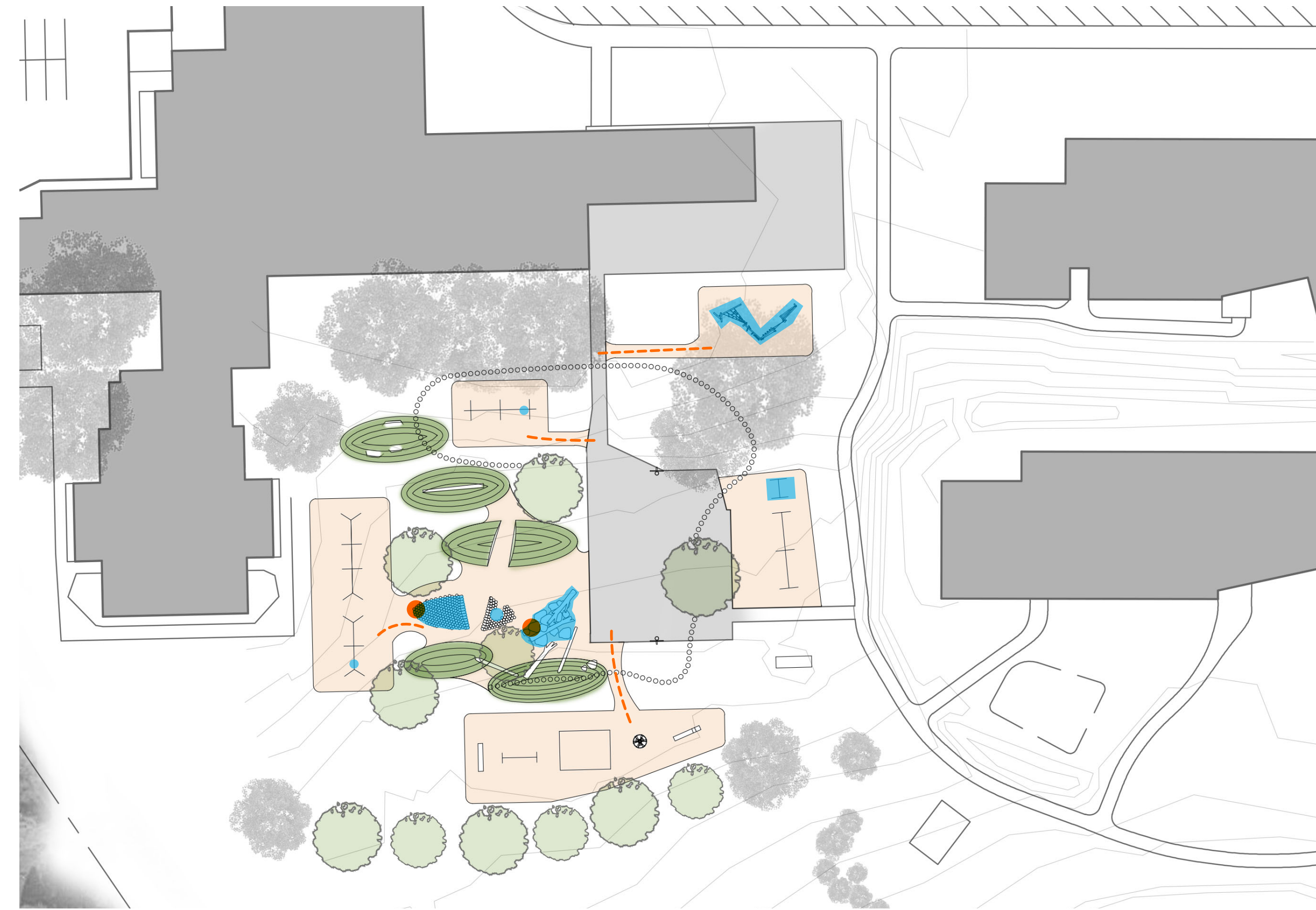
- 1 Landscape Mounds**
- Vestibular, Proprioceptive, Ability to sit, Creativity
- 2 Log & Boulder Scramble**
- Critical Thinking, Confidence, Creativity, Collaboration
- 3 Tree cookie path**
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit
- 4 Log Mound**
- Vestibular, Proprioceptive, Ability to sit, Creativity
- 5 Existing Swings (4) and Wheelchair Swing to Remain**
- 6 Parkour Equipment**
- 7 Teacher Lookout**
- 8 Existing Equipment (Slide, Spinners, Climber, Group Swing, Gymnastics Bars, Seesaw) to Remain**
- 9 Existing Swings (10) to Remain**
- 10 Existing Swings (4) to Remain**
- 11 Existing Asphalt Area**
- 12 Ball Play Area**



ACTIVITY DIAGRAM



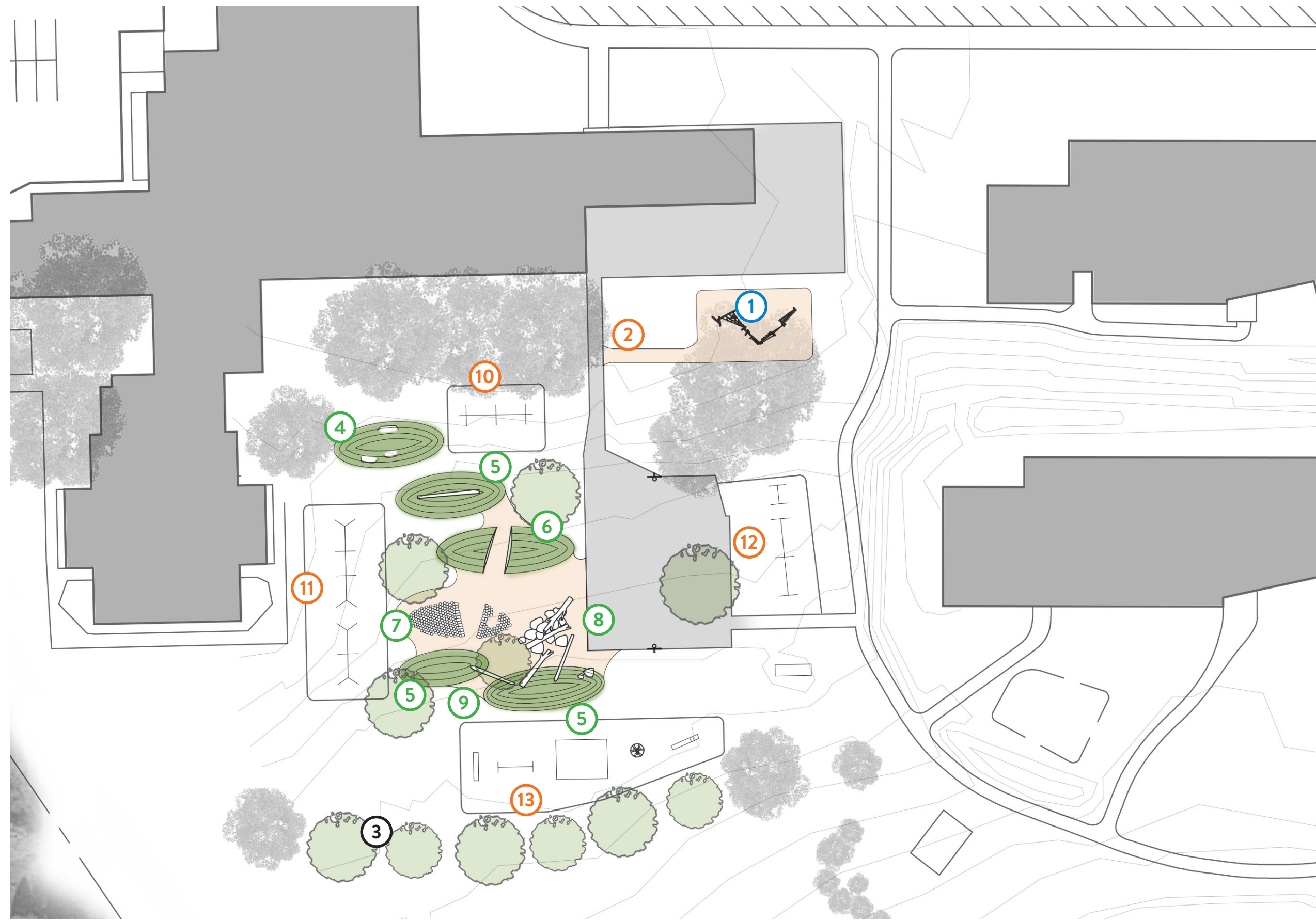
-  Transfer Station
-  Accessible Equipment
-  Accessible Path
-  Accessible Surfacing



ACCESSIBILITY DIAGRAM



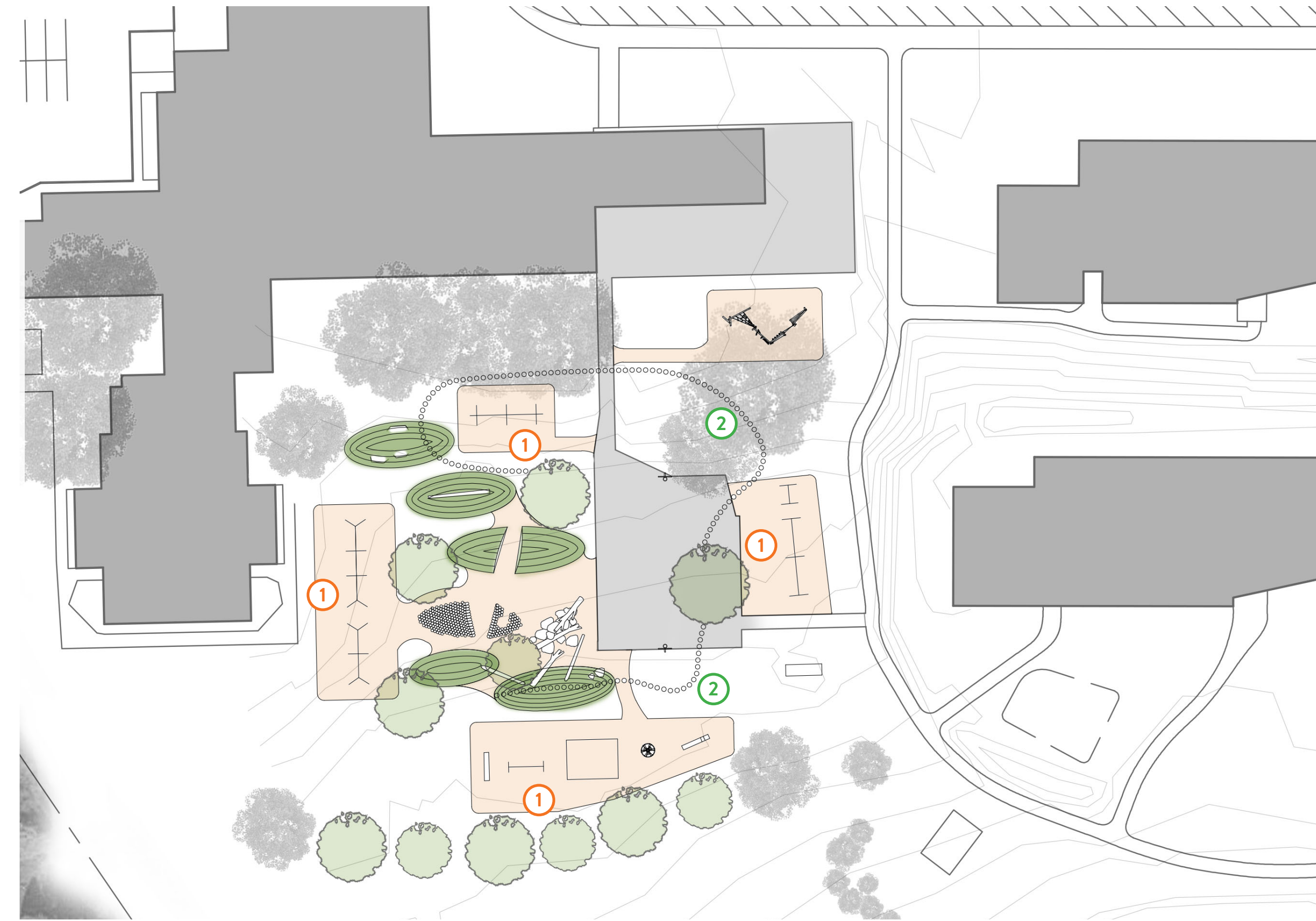
- 1 Parkour Climber
- 2 ADA Access
- 3 Shade Trees
- 4 Grass Mound with Stone Slab Seating
- 5 Grass Mound
- 6 Mound with Pathway Climber
- 7 Split Log Mound
- 8 Log and Boulder Scramble
- 9 Balance Beam
- 10 Existing Swings (4) to Remain
- 11 Existing Swings (10) to Remain
- 12 Existing Swings (4) and Wheelchair Swing to Remain
- 13 Existing Equipment (Slide, Spinners, Climber, Group Swing, Gymnastics Bars, Seesaw) to Remain



PHASE A PLAN



- 1 ADA Surfacing (EWF)
- 2 Tree Cookie Path



COMPLETED MASTER PLAN





CONCEPT RENDERING



MODEL IMAGERY

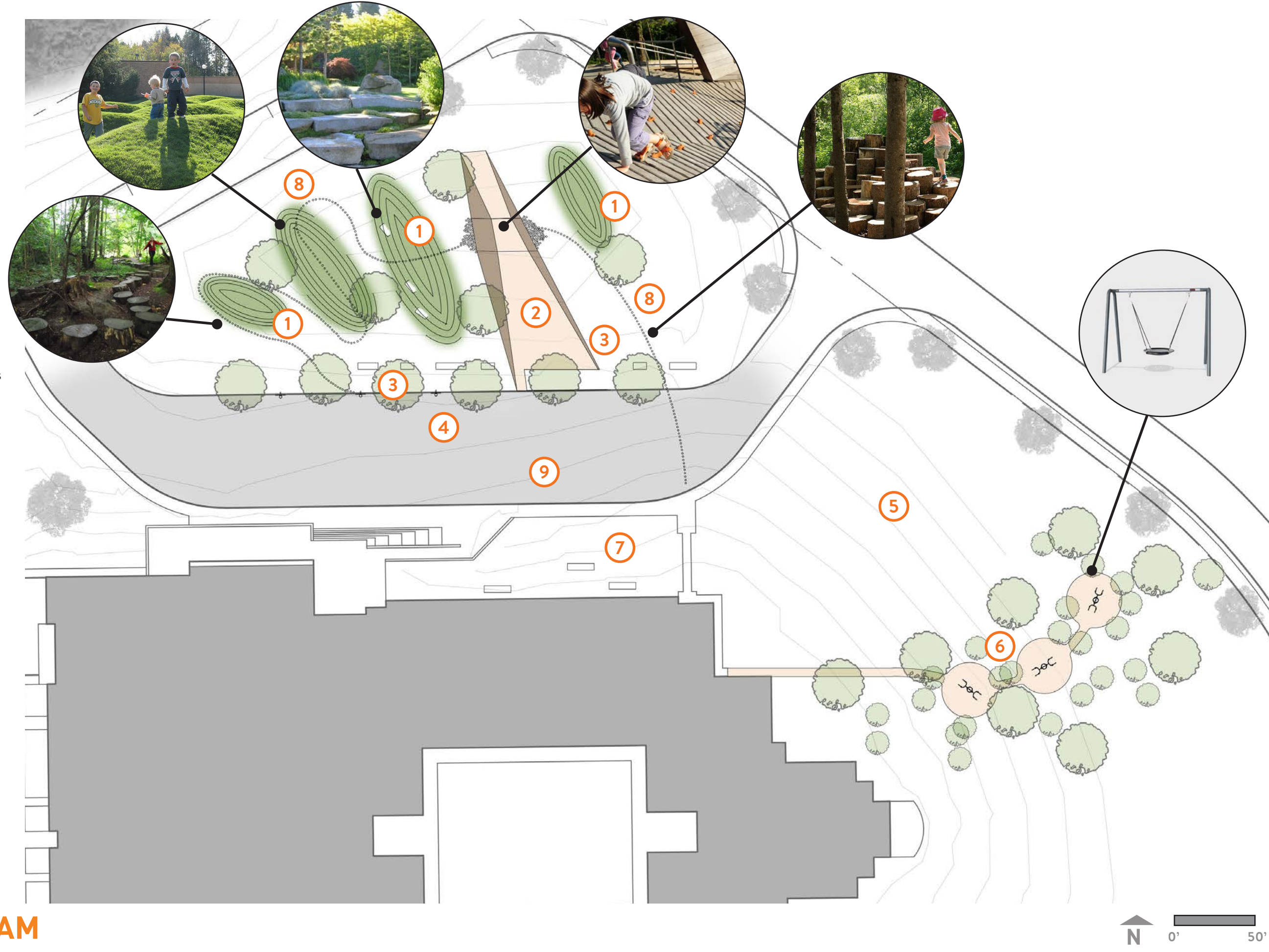


MT. NITTANY MIDDLE SCHOOL

NATURE PLAY & EQUIPMENT PLAY DIAGRAM



- 1 Landscape Mounds**
- Vestibular, Proprioceptive, Ability to sit, Creativity
- 2 Fractured Climber**
- Critical Thinking, Confidence, Communication, Empathy, Social Cues
- 3 Benches**
- 4 Art Zone**
- Creativity, Collaboration
- 5 Ball Play Area**
- Communication, Empathy, Social Cues
- 6 Group Swings**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 7 Seating/Hang-out**
- Communication, Empathy, Social Cues
- 8 Tree cookie path**
- Creativity, Collaboration, Vestibular, Proprioceptive, Ability to sit
- 9 Existing Asphalt Area**



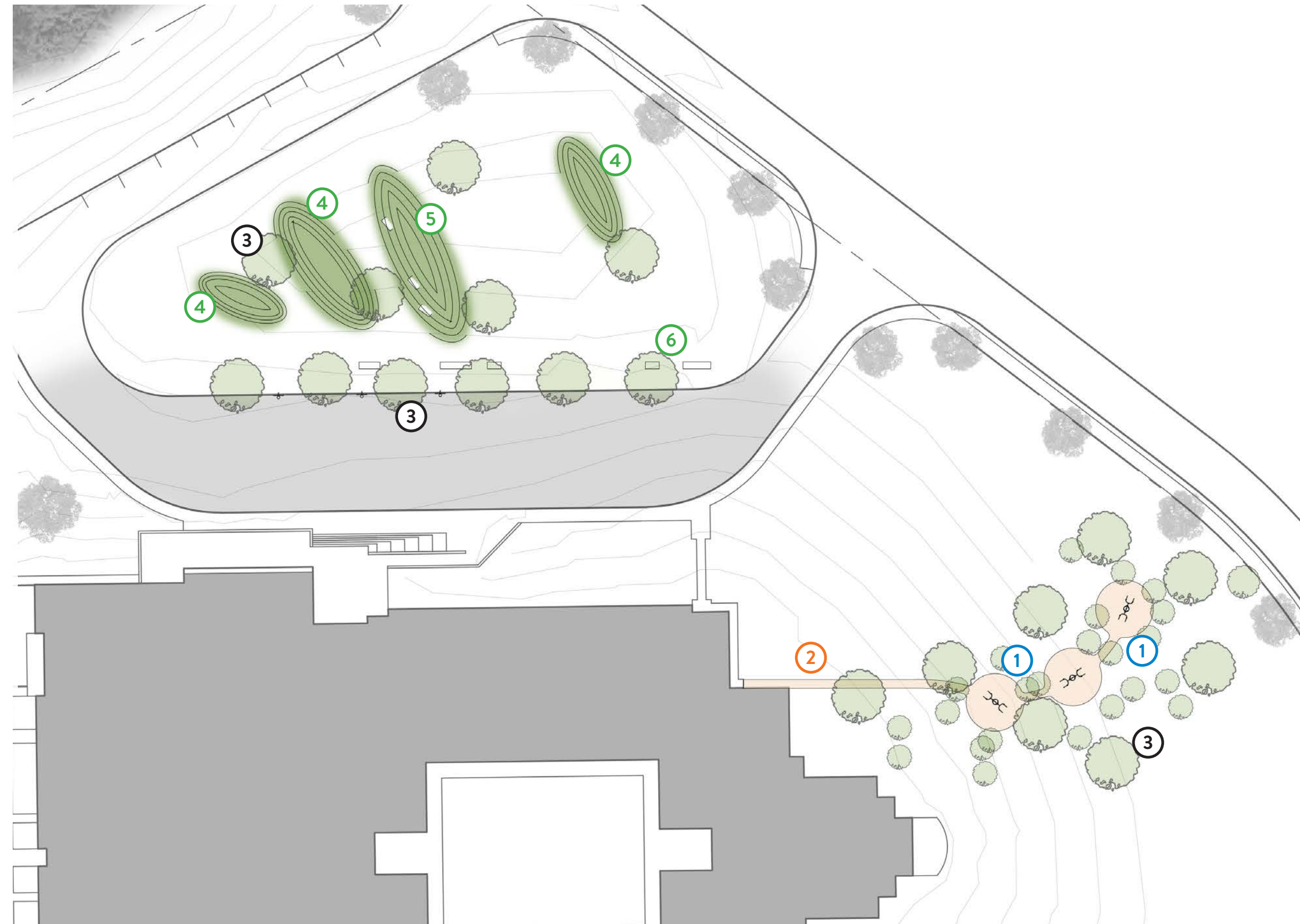
ACTIVITY DIAGRAM

- Transfer Station
- Accessible Equipment
- - - Accessible Path
- Accessible Surfacing

ACCESSIBILITY DIAGRAM



- ① Group Swings
- ② ADA Path
- ③ Shade Trees
- ④ Grass Mound
- ⑤ Grass Mound with Stone Slab Seating
- ⑥ Stone Slab Benches



PHASE A PLAN



- ① Fractured Climber
- ② Tree Cookie Path
- ③ Stone Slab Seating

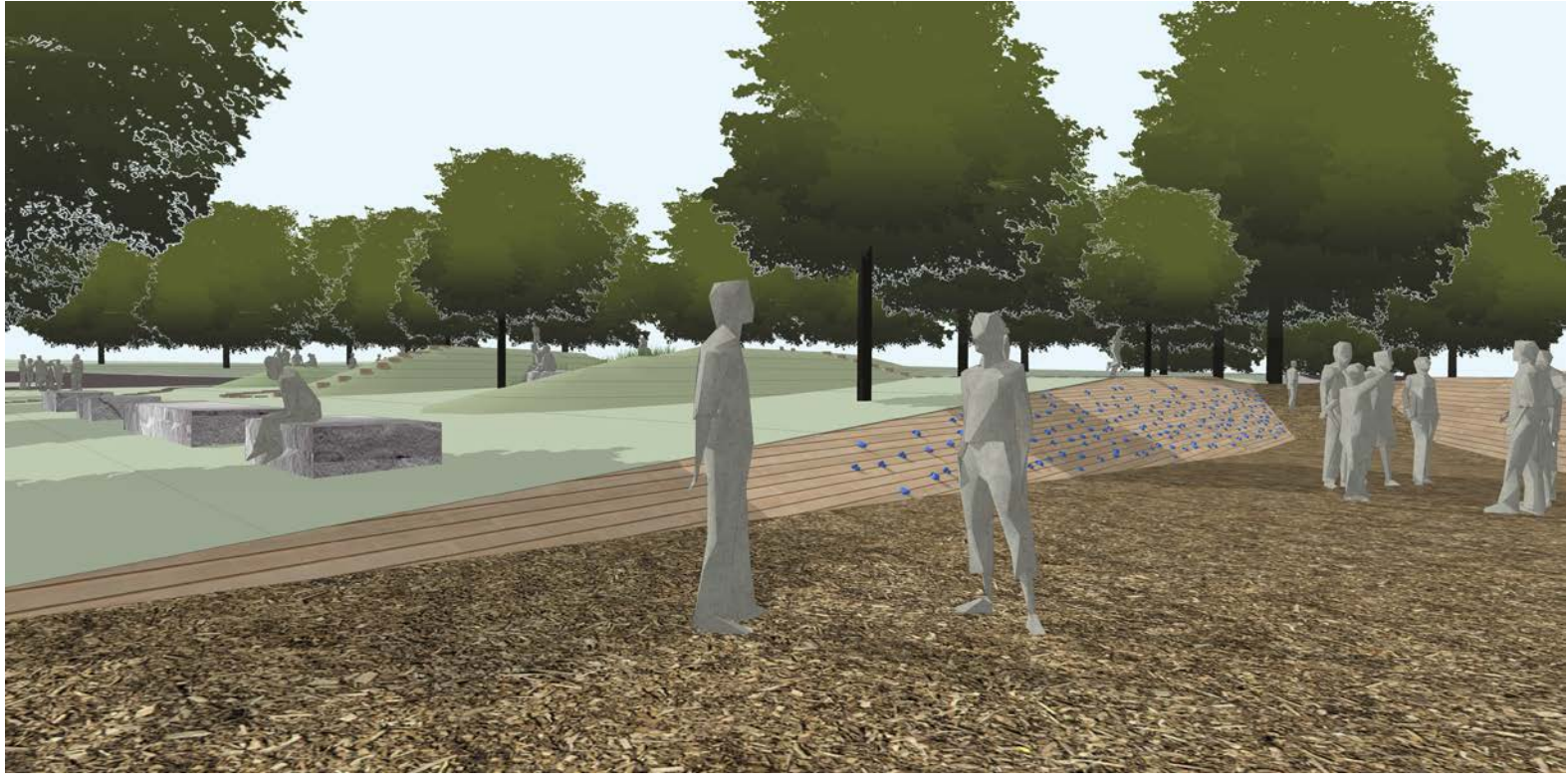


COMPLETED MASTER PLAN





CONCEPT RENDERING



MODEL IMAGERY

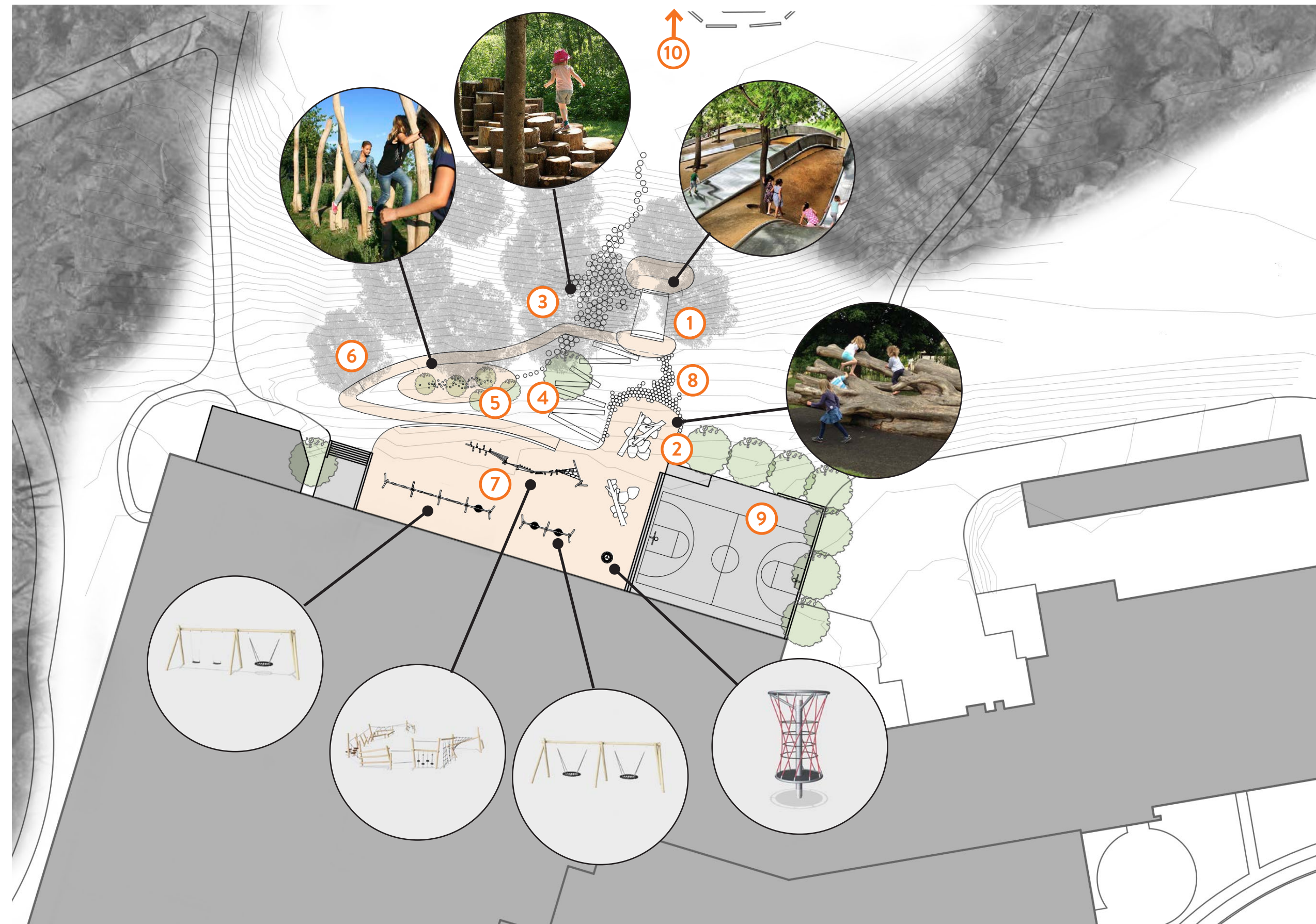


DELTA PROGRAM

NATURE PLAY & EQUIPMENT PLAY DIAGRAM



- 1 Group Embankment Slides**
- Vestibular, Proprioceptive, Ability to sit, Communication, Empathy, Social Cues
- 2 Log and Boulder Scramble**
- Critical Thinking, Confidence, Creativity, Collaboration
- 3 Tree Cookie Climber**
- Critical Thinking, Confidence, Communication, Empathy, Social Cues
- 4 Garden Seating/Steps**
- Mental Health, Emotional Regulation
- 5 Rod Forest**
- Critical Thinking, Confidence, Vestibular, Proprioceptive, Ability to sit
- 6 ADA Path**
- 7 Equipment**
- 8 Log Steppers**
- Critical Thinking, Confidence, Communication, Empathy, Social Cues
- 9 Recommended Asphalt Area**
- 10 Ball Play Area**



ACTIVITY DIAGRAM



- Transfer Station
- Accessible Equipment
- - - Accessible Path
- Accessible Surfacing



ACCESSIBILITY DIAGRAM



- ① Group Swings
- ② Swings
- ③ Rod Forest
- ④ Shade Trees & Grass Field
- ⑤ Log & Boulder Scramble
- ⑥ Outdoor Classroom
- ⑦ Parkour Climber
- ⑧ Twister Equipment



PHASE A PLAN



- ① Recommended Asphalt Area with Basketball Hoops (2)
- ② Log Scramble
- ③ Group Embankment Slide
- ④ New Entry
- ⑤ ADA Path

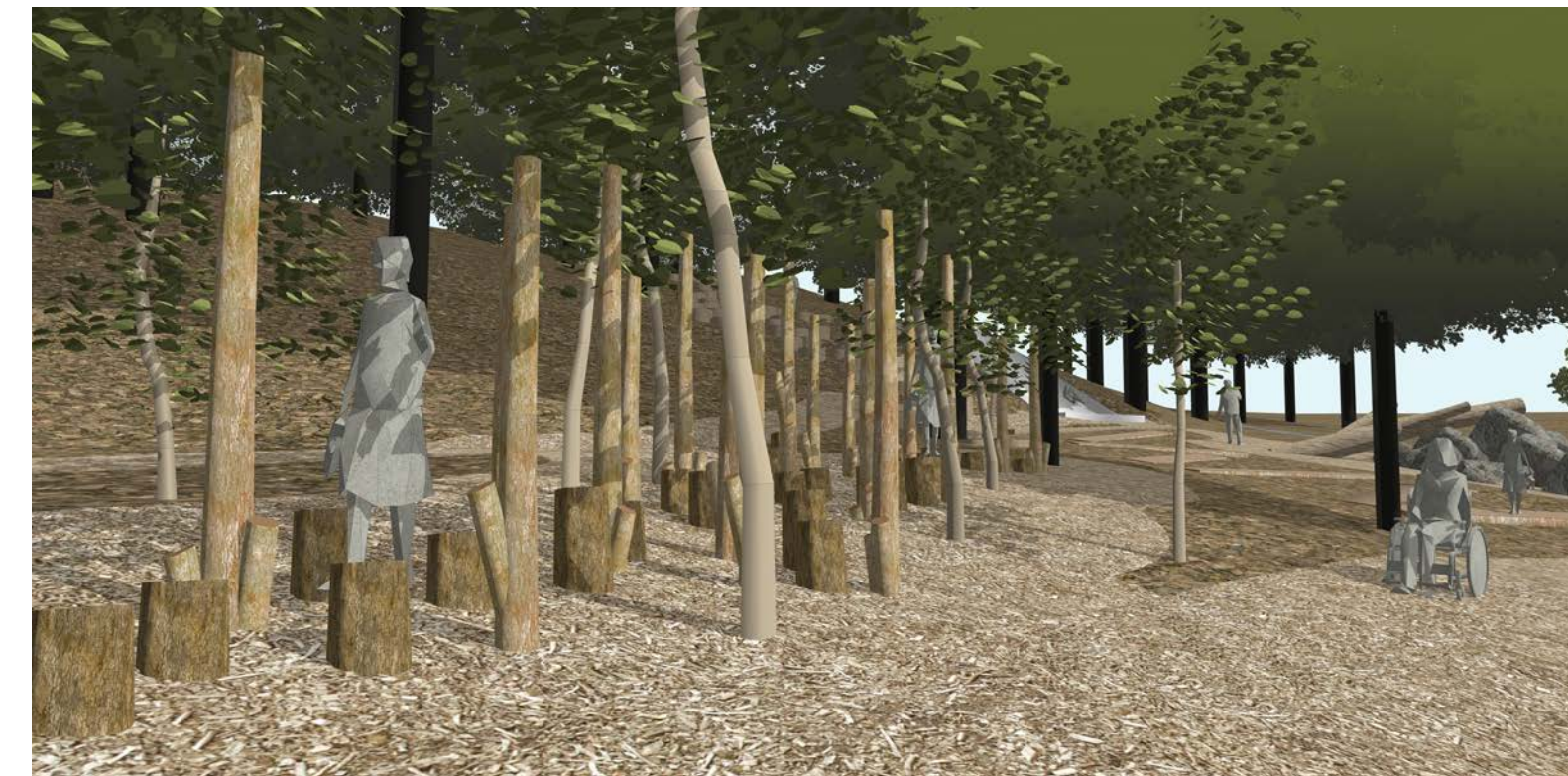


COMPLETED MASTER PLAN





CONCEPT RENDERING



MODEL IMAGERY



MAINTENANCE OVERVIEW

MAINTENANCE

Nature based play spaces have different maintenance needs than fixed equipment sites. However, this does not mean that maintenance is more complicated, once the basic approach is understood. A useful reference tool is the Nature Play: Maintenance Guide by Play England.¹

INSPECTION PROGRAM

All playgrounds require routine inspections, to determine health and safety, as well as maintenance needs. It is recommended that those responsible for playground maintenance go through a training program, similar to the National Recreation and Parks Association's Playground Maintenance Course.²

The State College Area School District (SCASD) should develop a schedule of inspections, both High Frequency (often) and Low Frequency (less often), that is reasonable and realistic given staff and resources, and regular enough to keep playgrounds safe for use.

Frequency of inspections should be based on the level of use on the playground, environmental issues (such as weather and being located next to the ocean – salt damage), type of surfacing, type of equipment, and other pertinent factors.

Playground components with moving parts require more frequent inspection, maintenance, and replacement. Inspections should also be based on manufacturer's recommendations along with industry standards and play safety guidelines.

Visual Inspections: Playgrounds should have a daily visual inspections, to identify hazards from vandalism, use, or weather conditions. These inspections can be done by school staff and do not require any specific training.

Any health and safety issues should be noted and communicated to State College Area School District (SCASD) staff responsible for playground maintenance.

Operational Inspections: Playgrounds should have monthly operational inspections, to identify issues related to wear and tear, loose and worn parts, and surfacing issues, particularly in relation to accessibility. These inspections should be done by staff trained in playground maintenance.

Annual inspections: Playgrounds should have annual inspections, to identify issues related to health and safety, such as structural deficiencies, broken equipment, and surfacing issues, particularly in relation to attenuation. These inspections should be done by staff trained in playground maintenance.

MAINTENANCE RECORDS

It is essential that proper record keeping is established for all playgrounds, to ensure health, safety, and accessibility. These records should include manufacturers documentation of all equipment, plans and specifications, documentation of all inspections, injury records, as well as maintenance work of all structures, nature areas, and surfacing.

It is recommended that this documentation be retained for a specified time (at least 10-15 years), which should be confirmed with the State College Area School District's (SCASD) legal department.

TREES AND CLIMBING

Children naturally want to climb trees, and low branches offer wonderful opportunities for swinging and climbing. The State College Area School District (SCASD) should determine if trees within the playgrounds are allowed to be climbed during school and recess times.

Risk–benefit assessments are a good tool to determine if trees are an acceptable play element within a playground. Managing Risk in Play Provision: Implementation Guide³ provides a hypothetical example of how to do a risk–benefit assessment of whether or not children should be allowed to climb trees, including how to perform a visual inspection for weak or damaged branches, which would otherwise be left to the child's judgment.

This tool could be revisited each year, as part of the annual inspection, in case weather and use modifies the environment. In general, the risk benefit assessment is recommended as a tool to evaluate nature play areas, as they change seasonally and through use.

PLANTS AND VEGETATION

Plants attract living creatures, such as birds, butterflies, and insects, and enable children to interact with, observe, and learn about nature. They also provide a supply of loose parts and demonstrate seasonal change.

However, new planting areas are particularly susceptible to damage and vandalism. They may need temporary protection during the establishment period or during times of stress or over use. All planting areas benefit from routine maintenance and the following actions should be noted:

MULCHES: Recommended to a depth of 2-3" at all planted areas to suppress weeds and retain soil moisture. Mulches are biodegradable and need to be topped up annually.

WATERING: During the establishment period, watering will be required in dry conditions and periods of stress or overuse. Likely, contractors will be responsible for the survival of the plants during the establishment period. However, the cost of maintenance, specifically for damage to plants through use, must be taken into account. Once established, most plants will be able to find adequate soil moisture to survive. Most trees will take two years to establish. Shrubs and perennials will be established after the first year.

FERTILIZER: New planting areas will benefit from an annual application of a slow release fertilizer.

VANDALISM: Many trees and shrubs will regrow if they are broken, though this will depend on the extent of the damage. Damaged joints should be checked and cleaned to prevent the tree from becoming infected and to ensure healing.

GRASS: Grass offers considerable play value. Maintenance of grass within play areas can follow a typical mowing regime as established by the State College Area School District (SCASD), and should be able to be mowed either by hand or by riding mower, depending on steepness of the grade. Weekly mowing should be acceptable, depending on weather conditions.

TREE TRUNKS, LOGS, AND BOULDERS

Fallen or cut down tree trunks, logs, and boulders offer children and young people great play value, including the opportunity to discover different textures, practice balancing and climbing, or providing passive places to sit or hang out with peers.

The State College Area School District (SCASD) should review the condition of tree trunks, logs, and boulders regularly, and modify maintenance to take account of the natural aging process of natural materials. Right after installation, this could be done through monthly or biannual inspections.

As the trees age over time, they should be monitored more closely, as part of a weekly inspection. Different tree species will also age at different rates. The design team has selected tree species with care to the aging process, but weather and heavy use can advance cracking, splitting, and rot. The inspections should include removal of loose objects, sharp or ragged edges, moss and algae when necessary.

Not all boulders are the same. Some are susceptible to frost, others are hard and brittle, and others may weather very rapidly. While the design team has selected boulders with care, it is possible that weather and heavy use may cause advanced aging and cracking. Boulders should be inspected monthly for cracking and extremely sharp edges.

ENGINEERED WOOD FIBER

Maintenance of playground ground mulch (also referred to as Engineered Wood Fiber or EWF) is critical for playground safety and accessibility. EWF naturally settles on a stable play surface but with use, the material will shift around.

Depending on weather and usage, the EWF may need to be topped off with additional material, wetted, and compacted to depths recommended by manufacturer.

The State College Area School District (SCASD) should review the need to install new material on an annual basis.

On a daily basis:

- Visually inspect the EWF surface for debris, sharp objects, fallen branches, trash, and other hazards, and remove as soon as possible upon discovery.

On a weekly basis:

- Visually inspect under high-traffic play features, such as slides or swings, if EWF is worn down use rake or shovel to move additional EWF from low-traffic areas to areas that have been worn down.
- Rake EWF to keep surface level and maintain original depth.
- A level surface is required for wheelchair access and ADA-compliance.
- At accessible entrances onto playground surface, ensure that the surface material, accessible route, or the top of the access ramp is within one-quarter (1/4) inch of the finished grade of play area border.

On an annual basis:

- Determine if new EWF material is needed.
- Check performance of drain system by ensuring that water is flowing from drain system outflow pipe immediately after rain.
- Ensure there is no standing water on playground surface.

FIXED EQUIPMENT

Fixed equipment should be inspected based on manufacturer's recommendations along with industry standards.

Steel and plastic equipment are often viewed as not needing maintenance as regularly as natural elements. Unfortunately, this is not the case. UV degradation and heavy use impacts fixed equipment and can significantly shorten its lifespan. Additionally, fasteners and moving parts can corrode quickly, and must be inspected frequently to ensure health and safety of children and other users.

It is recommended that all fixed equipment be inspected on a monthly basis, with particular focus on fasteners and moving parts. If painted components chip or have exposed rust, it is recommended that they be lightly sanded and painted.

Any advanced rust noted on components that has compromised the structural integrity of the metal should be replaced immediately.

Through a regular maintenance regime and trained staff, the playgrounds within the State College Area School District (SCASD) will provide play value for decades of children to enjoy.

¹ <http://www.playengland.org.uk/media/120468/nature-play-maintenance-guide.pdf>

² <https://www.nrpa.org/careers-education/certificate-programs/playground-maintenance-course/>

³ <http://www.playengland.org.uk/resource/managing-risk-in-play-provision-implementation-guide/>



**SCASD Playground Master Plan
Civil Engineering Narrative
May 15, 2019**

SITE NARRATIVES

Corl Street Elementary

This site is located at 235 S. Corl St., State College, PA 16801, in State College Borough. The proposed playground is located to the east of the building. Proposed playground area includes a wedge shaped high flat area with an existing playground in place, with partial wood chip ground cover and partial asphalt cover. From there, a steep sloped hill continues downward to a parking lot on one side, the school in the center, and the low proposed playground area to the far side. The hill is currently fenced off for safety, with dirt ground cover due to active construction in the area. The low area of proposed playground is a flat dirt and gravel mixture, with dirt mounds and construction debris due to active construction.

Stormwater is managed at the site via overland sheet flow from high playground area, downhill, then directed towards one of two storm grates. One grate is in a low area near the parking lot and the other is located on the far end of the low playground area. Based on a review of the approved land development plans for the current construction project, the inlets appear to be part of two separate subsurface stormwater management facilities. The final placement of the proposed mounds and tree plantings should be designed to allow for positive drainage and to not interfere with the function of the subsurface stormwater facility



Storm Grate in proximity of proposed mound



Piping in proximity of proposed mound



Existing playground (high area)

Delta Program

The site is located at 650 Westerly Pkwy, State College, PA 16801 (North of Westerly Parkway) in State College Borough. The proposed playground is located to the North of the building. The proposed playground area consists of a steeply sloped, densely wooded hill adjacent to the building. The density of the woods made it challenging to identify additional features or challenges on the hillside. Directly next to the building are concrete platforms near doorways, and an asphalt driveway extending part way across the site. The lowest grades are at two separate doorways. Beyond the site, on the high side of the hill, are flat, grass sports fields. The site slopes towards the building direct all stormwater from the hill in that direction. There does appear to be a shallow, terrace-like swale cutting across the hill part way up, which may redirect some of the runoff around and away from the building, but the extent of the benefit is unclear. There are floor drains near the doors of the buildings at multiple locations, intended to collect and carry off the stormwater runoff from the hill. It is unclear where the drains direct the stormwater.

The grading, directing stormwater towards the building, creates design challenges. The playground design appears to envision clearing much of the tree and brush cover from the hillside, which will increase runoff towards the building. In order to accomplish the design components directly next to the building, especially given the low grade of the existing doorways, it appears that a considerable amount of additional excavation will be necessary, which will also exacerbate the drainage issue. The stormwater drainage and conveyance system will need to be redesigned to minimize the potential of runoff entering the building. There are also overhead power lines and poles in the area of the proposed playground. The Borough does not allow development within the right-of-way easements of utilities but it is unclear how large the easements are for these power lines and poles or whether they will directly conflict with the design layout but there will be an impact on aesthetics regardless.



Wooded hillside (typ)



Power pole/lines on hill (typ of multiple)



Low point, entrance 1

Low point entrance 2

Easterly Parkway Elementary

The site is located at 234 Easterly Parkway, State College, PA 16801, in State College Borough. The proposed playground is located to the northeast of the building. This large site includes a series of existing playground areas in open space on the high area above a hillside. The ground cover consists of woodchip ground cover at several locations of existing playground equipment, grass open space, and an asphalt walkway cutting through the site. The entire site is sloped towards the road below, at varying steepness. Stormwater is managed at the site by overland runoff towards the paved parking lot and roadway, with stormwater drainage grates in the paved areas.

At the high south side of the site, the proposed design includes a row of large trees near a swing set replacement. It is noted that just south of the swing set in proximity of the proposed trees are existing garden boxes which are proposed to remain. It is anticipated that the proposed trees may block sunlight to the garden boxes.



Playground sloping towards road (typ)



ADA swing in location of development



Area of proposed trees near garden boxes

Ferguson Township Elementary

The site is located at 215 W. Pine Grove Rd., Pine Grove Mills, PA 16868, in Ferguson Township. The proposed playground is split into two locations, one in the core area of the building and the other to the north of the building.

In the core area, the site consists of a steep, rolling, grass hill, with a concrete platform and asphalt walkway at the low end. Stormwater travels downhill overland in this area. Once at the bottom of the hill, the site slopes slightly towards the opening on the east side of the core area and ultimately towards a large, partially rock-lined swale running parallel to the east side of the building. Despite this slope, there are multiple low points which could create temporary minor ponding or saturation during rain events. The proposed playground development in this area should not exacerbate any existing stormwater issues in this area.



Core area from top of hill

Core area from bottom of hill

To the north of the building in the location of the proposed playground is an existing playground. Ground cover consists of woodchips in the areas of playground equipment, an asphalt play surface, and grass. The site includes a mix of sloped and flat areas, ultimately leading away from the building towards a grass field to the north. However, there are multiple low points in the playground area, creating a risk of ponding or saturation during rain events. Bordering the north west corner around the north side of the existing playground site is a grass swale, which receives an outflow pipe delivering stormwater from the parking lots to the west of the building. This swale appears to be a significant stormwater management feature for the site. The proposed playground development for this site appears to show multiple features in and around the location of this swale and may interrupt the swale's function.



Main playground area



Existing swale in northwest border of playground

Grays Woods Elementary

The site is located at 160 Brackenbourne Dr., Port Matilda, PA 16870, in Patton Township. The proposed playground is located in the core area and continuing to the east of the building.

The center of the core area consisted of a mounded grass landscape, with tree and brush growth in the high area. Around the mounded area and to the building on three sides the ground is generally flat and grass, with a slight slope away from the building towards the opening in the core area. Stormwater appears to be adequately managed to run overland out of the core area around the mounded area. Beyond the core area directly to the east is an existing playground. It includes playground equipment with a wood chip ground cover, areas of grassy ground cover in between, and an area of asphalt play surface. Beyond the playground area, the ground slopes up significantly via a grass hillside. At the top of the hillside is a safety fence, beyond the fence an asphalt walkway runs along the hilltop, and beyond the walkway is a flatter area with sporadic mature trees, grass ground cover and a slight slope towards the hill. The result of these three components (core area, hilltop/hill, and playground area) is a concentration of site stormwater running towards the playground area at the low ground. To manage the stormwater collecting in this location, stormwater grates are present, one in the center of the playground and a second directly to the south of the playground. It was unclear from the field view where the stormwater is conveyed once collected by the storm grates.

The placement of the central playground storm grate creates challenges for the site. As it currently exists, the grate is in the center of the playground area, creating a potential safety concern. Additionally, the grate is in an area with wood chip ground cover, resulting in a high risk of debris collecting on the grate (currently managed by a screen cover over the grate). The proposed plan includes a new walkway through the playground area directly over the location of this grate. It will be important to design this walkway with drainage in mind, to promote runoff towards the grate and minimize risk of debris laden runoff to the grate. To the south side of the site, it appears that runoff is intended to collect at the base of the hillside and travel from there to the south towards the second grate. However, it appears that this is not adequately accomplished due to low spots in this pathway. The ground was noticeably saturated and spongy in this area. This location is also proposed to have new tree plantings as part of the playground improvements, and it is recommended that grading be addressed during installation to promote proper runoff towards the secondary grate. Finally, it is noted that on the southwest corner of the proposed playground design, new tree plantings are specified. However, there is an existing box garden in this area. Recommend either adjusting design to avoid garden or removal of garden to accommodate design.



View of main playground area and building core area from the top of hillside



View of south side of playground area, showing hillside and secondary storm grate

Mt Nittany Middle

The site is located at 656 Brandywine Dr., State College, PA 16801, in College Township. The proposed main playground area is located to the north of the building, with a small extension located to the east of the building.

The main proposed playground area is currently a grass covered island of open space bordered by curbing and surrounded by paved roadway. The open space is graded with its high point in the center and consistent slope away towards the road on all sides, forming a soft mounded area. Stormwater runoff flows toward the road on all sides and is collected in stormwater inlet and piping system in the roadway. On the opposite side of the road to the south of the island is a concrete sidewalk, then stairs leading up to a concrete pedestrian area, abutting the building and its doorways. The sidewalk area is sloped away from the building to direct stormwater towards the road. The pedestrian area has a retaining wall on two side, and stormwater inlets to collect runoff. There are also small drainage weep holes in the exterior of the half wall, likely for secondary drainage of the retaining walls. To the east of the building, in the secondary area of proposed playground development, there is grass covered open space with sporadic trees. Sloping slightly away from the building towards the road. This sloping provides adequate overland runoff for stormwater.

The only challenge noted for this site is associated with the proposed changes in the concrete pedestrian area abutting the building. The design of the proposed improvements will need to consider the existing stormwater drainage features, within the pedestrian area, and may require alterations to those systems to accommodate the new design.



Retaining/half wall of concrete platform area

Platform area, showing stormwater grate



View of grass island area looking North

Mt Nittany Elementary

The site is located at 700 Brandywine Dr., State College, PA 16801, College Township. The proposed playground is located to the west of the building.

The proposed location for this playground is the location of an existing playground, consisting of a large asphalt play surface, playground equipment with wood chip ground cover, and grass areas throughout. The site slopes slightly away from the building to the south in all locations. Some stormwater to the southeast is collected in a swale system directing stormwater around the east building in that location. Otherwise, stormwater drainage is via overland sheet flow south towards grass covered open space. Stormwater does not appear to be an issue for this site. It appears that a large section of asphalt will need to be removed to accommodate the proposed improvements, but this should not create any major challenges.



Main asphalt area of existing playground and location of proposed mounded areas

Park Forrest Elementary

The site is located at 2181 School Dr., State College, PA 16803, in Patton Township. The proposed playground is located to the east of the building.

The site, near to the building, consists of a large existing playground area, including playground equipment with wood chip ground cover, asphalt play surfaces and walkways, and grass covered areas throughout. This portion of the site slopes slightly away from the building. Beyond this area is a large, moderate to significantly sloped hillside, sloping down away from the building elevation in a choppy, inconsistent pattern. The hillside contains many mature trees, the remnants of old asphalt walkways, curbs and platforms, and an existing playground area at the bottom of the hill. The hill side is partially grass covered, with exposed rocks and boulders, dirt and sand. Stormwater runs overland away from the building towards the hill, then down the hillside and away from the site into the wooded area beyond the site. There are signs of erosion in areas when the stormwater flow is concentrated towards the hill.

The signs of erosion create a concern for improvements proposed on the hillside and therefore the design will need to adequately address stormwater runoff to avoid further erosion. Also, on the hillside, the sporadic asphalt remnants should be removed to allow for the proposed design and to minimize safety concerns. It is also worth noting that the proposed plan appears to require the removal of multiple existing playground areas currently in use of the school.



Large rocks and trees near pavilion in location of proposed development



Signs of erosion on hillside

signs of erosion on hillside (2)



Sporadic remnants of asphalt walkway, curbing and platforms on hillside

Park Forrest Middle

The site is located at 2180 School Dr., State College, PA 16803, in Patton Township. The proposed playground is in two sections, one located to the northwest of the building and the other located to the east of the building.

To the east of the building, in the area of the proposed improvements, is an existing stormwater management basin. Beyond a narrow walkway lining the building, the site slopes steeply away from the building into the basin. The basin is grass covered, with a swale leading towards the basin that is rock-lined. In the basin is an outflow structure which discharges to the densely wooded area to the south of the basin. The initial concern noted for this section of the proposed improvements is the proximity to the existing and functioning stormwater management basin, which may pose a safety concern. The proposed embankment slide appears to be positioned to direct user directly into the existing rock-lined swale. The top of the proposed slide is also in close proximity to an existing sanitary manhole. The final location of the proposed improvements should take into consideration the location and function of the existing stormwater management basin.



View of basin on the east side of building, facing west



View of basin and wooded area on east side of the building, facing west

To the northwest of the building, the proposed playground area is at a low elevation directly next to the building, with steep hillsides sloping from high to low towards the building. The hillside is grass covered, with signs of minor erosion. In the low area, there is some existing playground infrastructure with wood chip ground cover. On the high side of the hill are concrete and asphalt walkways and play surfaces. Stormwater flows downhill into the low area. Once in the low area, there is a slight slope towards the south along the building towards a stormwater grate, located in an asphalt area. There are concerns with low points around the building which don't appear to provide positive drainage towards the storm grate, creating a saturated spongy condition. There are also concerns for additional erosion on the hillside in the area of proposed development, if proper erosion control measures are not implemented as part of the plan. Additionally, the proposed treefall area of the new design will be in the direct path of stormwater flow towards the grate, creating a risk of obstruction or washout during rain events.



Low area of proposed playground at northeast of building



Existing storm grate at NW of bldg.

Hillside where development proposed at NW of bldg.

Radio Park Elementary

The site is located at 800 W. Cherry Ln., State College, PA 16803, in State College Borough. The proposed playground is located to the east of the building.

This is an active construction site. The main asphalt play surface is existing and directly next to the building, with fenced construction zones on the remaining 3 sides. The construction zones are dirt covered on either side and gravel in front of the asphalt area. The dirt areas are currently being used to store construction equipment. Beyond the construction zone is an asphalt walkway extending around the building in both directions. Beyond the walkway is a wooded area 10-15 yards deep, beyond which there is an open grassy area of approximately the same width, then more woods beyond that. In this transition area beyond the site exists a large sink hole that is fenced off. The proposed site generally slopes away from the building to allow overland stormwater flow towards the wooded area and ultimately the sink hole. The areas of active construction do not appear to be at final grade elevations yet, but we assume the final grade will provide adequate drainage away from the building. There are two headwalls with stormwater outflow piping on the site. The one to the north appears to collect stormwater from storm grates to the north of the building beyond the area of proposed playground and carry stormwater under the proposed playground site to the outflow, which is positioned just beyond the asphalt walkway. The headwall to the south is similarly positioned just beyond the walkway and appears to collect stormwater either from building roof drains or other storm grates which were not identified during the field view.

The two outflow headwall pipes are located within the footprint of the proposed playground, creating a risk of washout resulting from concentrated flow in those areas. Additionally, a portion of the property is within the FEMA designated 100-year floodplain. Based on the depiction of the floodway found on the approved land development plans for the current project, some of the proposed improvements may be located within the 100-year floodplain.



Asphalt play area from bldg. facing southeast

Active construction in area of north playground



South headwall outflow (note this is within footprint of proposed walkway but beyond existing wooded area)

Spring Creek (Houserville) Elementary

The site is located at 675 Elmwood St., State College, PA 16801, in College Township. The proposed playground is located within the courtyard and to the east of the building.

This is an active construction site. The core area of the building is currently dirt covered due to construction and is graded such that stormwater flows into the core and is collected in a storm inlet in a low point. Beyond the core area there is a high flat area, dirt-covered, which appears to be planned for an asphalt or concrete play surface. On the building side, this flows towards the core area or towards the building on either side of the core opening, with storm inlets to collect stormwater in front of the building on both sides. To the south and east of the high area, the site slopes down steeply away from the site. Within the sloped area there is a drainage swale with an inlet located at the low point which conveys runoff to an on-site stormwater management basin. The only concern noted for this site is the location of the south end of the group swing. This proposed swing is location in close proximity to a stormwater manhole which may create a safety concern for users.



Core area facing east.

Drain (covered by plywood) in proximity of swing #5 loc.

PERMITTING

Centre Region COG

All playground sites are within the Centre Region and Centre Region Council of Governments (COG) Permitting requirements apply to all sites. For playgrounds, applicant is required to obtain a commercial building permit for playground equipment. Design must demonstrate compliance with IBC 2018, Chapter 11 (1110.4.13 Play Areas; 1104 Accessible Routes) and ICC A117.1 Accessible and Usable Building and Facilities (1108.2 Play Areas). Submit 2 copies of plan set, application form and fee deposit. Must demonstrate compliance with local zoning requirements, either by supplying required permits or a letter from the municipality indicating that no permit is required.

Patton Township

Grays Woods Elementary, Park Forrest Elementary and Park Forrest Middle Schools are in Patton Township. The Patton zoning department has indicated that for a playground on a school site, intended for use by the school only, no permit would be necessary from the Township. Applicant will need to obtain a signature from Patton Township indicating this. This can be obtained by scheduling an appointment to bring the Centre Region building permit application package into the Township for their signature and to provide them with a copy for their file.

Ferguson Township

We have made numerous attempts to contact the Township but at this point we have been unable to confirm the permitting requirements.

College Township

Spring Creek Elementary, Mount Nittany Elementary and Mt Nittany Middle schools are in College Township. College Township generally requires zoning permits for land development projects. The zoning office has requested that, when moving forward with a playground project in the municipality, applicant should schedule a sit-down meeting with the zoning department to present and discuss the project. The Township would then make a determination of whether a zoning permit application would require the submission of a minor plan or could be submitted without a plan. In either case, a zoning permit would thereafter be issued for the project.

State College Borough

Corl Street Elementary, Easterly Parkway Elementary, Radio Park Elementary and the Delta Program are located in State College Borough. The Borough generally requires zoning permits for development permits but the permitting requirements for the park projects depend on the scope of the projects. State College Borough has requested that a site plan showing proposed and existing conditions, as well as elevations if available, be submitted for Borough

review. The plans will be reviewed and, depending on the scope, the Borough will either issue a zoning permit or a notice that no permit is required. A full land development plan submission is not required.

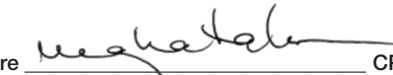
PA Department of Environmental Protection (DEP)

A few of the sites are currently under active construction and presumed to have active PA DEP National Pollution Discharge Elimination System (NPDES) permits for the discharges of stormwater associated with construction activities . If the playground projects should be added to any of these active construction sites prior to their completion, a modification to the existing NPDES permit will likely be necessary to accommodate the development of the proposed playground improvements



PLAYGROUND SAFETY AUDITS

Playground Safety Compliance Audit Form

Inspector (print) Meghan Talarowski Signature  CPSI # 32886-1118
 Date 10/25/18 Time 12:00pm Weather Sunny, 40 degrees
 Playground Name and/or Identification Number Easterly Parkway Elementary School

Injuries to children may occur from many types of playground equipment and environmental conditions. The checklist on the following pages will help you to assess and correct safety concerns that may be present on or near your playground. While it does not cover every potential safety concern in a children's environment, it is an overview of most known playground safety concerns. The checklist does not apply to home playground equipment, amusement park equipment, or to equipment normally intended for sports use. The checklist also does not address the many important issues of child development that pertain to play.

The playground safety compliance audit form is not a regulatory standard, but a compilation of suggested guidelines based upon the *Public Playground Safety Handbook* written by the U.S. Consumer Product Safety Commission (CPSC)¹ Revised November 2010; American Society for Testing and Materials (ASTM)² F1487-11 Standard; Department of Justice 2010 ADA Standards for Accessible Design (2010 Standards) for Title II (28 CFR Part 35) and Title III (28 CFR Part 36), Sections 240 and 1008 Play Areas³ (These accessibility standards published in the Federal Register on September 15, 2010 can be found at: <http://www.ada.gov/reg2010/2010ADASTandards/2010ADAstandards.htm>) and expert opinions from individuals with a vast amount of experience in the field of playground safety.

Acknowledgments:

- Created from the "Statewide Comprehensive Injury Prevention Program" (SCIPP), Department of Public Health, 150 Trecost Street, Boston, MA 02111
- Adapted as Wheaton Park District's "Initial Playground Safety Audit" September, 1989, Revised December 20, 1990 and November, 1991, Ken Kutska, CPRP
- Edited and updated June, 1992, by Ken Kutska, CPRP, and Kevin Hoffman, ARM, Park District Risk Management Agency
- Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Edited and updated March, 2003, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Excel™ formatted 2004, revised citations to 2008 CPSC *Handbook* and ASTM F1487-07ae¹ Standard, August, 2008, by Steve Plumb, CPRP, CPSI
- Revised September 2008 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director
- Revised August 2011 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director

1. U.S. Consumer Product Safety Commission, (CPSC), 4330 East West Highway, Bethesda, MD 20814
 2. American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428
 3. U.S. Access Board, 1331 F Street, NW, Suite 1000, Washington, DC, 20004
 (<http://www.ada.gov/reg2010/ADAregs2010.htm>)

Playground Safety Audit Forms

Background Information

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IMPORTANT: This information has been prepared to assist the agency's attorney in defending potential litigation. Do not release to any person except an agency official, insurance representative, or an investigating police officer.

Play Area: Easterly Parkway Elementary School Date: 10/25/18
 Eqpt Type: Composite Structure, Swings, Climbers, Slide, Fitness Surface: Wood Mulch
 Audited By: Meghan Talarowski Intended User Age: 5-12

General Environment

1. Category of Playground: (check all that apply)

Community Park Public School Childcare Center
 Neighborhood Park/Tot Lot Private School Other: _____

2. Equipment Inventory: (indicate the number of equipment pieces that exist)

A. Composite Structures	B. Freestanding Eqpt	C. Site Amenities
stairways/step ladders _____	swings (to-fro) <u>4</u>	benches <u>2</u>
stairways/step ladders _____	rotating swings _____	tables <u>1</u>
rigid climbers <u>3</u>	seesaws <u>1</u>	water fountains _____
flexible climbers _____	slides <u>2</u>	bicycle racks _____
decks/platforms _____	rigid climbers <u>2</u>	wheelchair parking _____
play panels _____	flexible climbers _____	signs (safety) _____
slides _____	upper body eqpt _____	litter barrels _____
sliding poles _____	rocking eqpt _____	fencing <u>X</u>
horizontal ladders <u>1</u>	merry-go-round _____	accessible route to play area _____
horizontal rings _____	spinner (< 20" D) _____	other _____
track rides <u>1</u>	sand play area _____	other _____
crawl tunnels _____	backhoe digger _____	other _____
clatter/other bridges _____	play panels _____	other _____
ramps _____	stepping pods <u>1</u>	
transfer stations _____	net climber _____	Balance Beam
roofs _____	other _____	
other _____	other _____	
other _____	other _____	

General Environment (continued)

3. Playground Perimeter Concerns

Directions: Check all potential concerns that exist, and indicate the actual distance item is from play area border. The owner/operator shall evaluate each border concern for possible mitigation.

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Playground Perimeter Concerns	Distance from Border	Priority Rating	Comments
1st public street	>100'		
2nd public street	>100'		
3rd public street			
4th public street			
streets with heavy traffic			
water (ponds/streams/ditch)			
soccer/football field			
baseball/softball field (home plate)			
basketball court	25'		
parking lot	>100'		
railroad tracks			
trees (not pruned up at least 84" within playground area)			
golf course			
quarry pit (cliff-like condition)			
contaminated area/landfill			
other (specify)			
other (specify)			
other (specify)			

General Environment (continued)

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General Environment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
4. If needed, fence is provided for perimeter concerns. See Pg 2 for list of concerns. (CPSC 2.1) (Fencing Reference ASTM F2049)		X X	4 4	Full perimeter fence recommended
5. Shaded area is provided. (CPSC 2.1.1)		X X	4 4	Shade recommended
6. Play area is visible to deter inappropriate behavior. (CPSC 2.2.4)	X X			
7. Equipment not recommended on public playgrounds include... climbing ropes not secured at both ends, trampolines, swinging gates, giant strides, heavy metal swings (animal swings), rope swings, swinging dual exercise rings and trapeze bars. (CPSC 2.3.1)	X X			
8. Playground is accessed safely by a sidewalk that is free of standing water, pea gravel, and low branches and complies with the DOJ 2010 Standard for Accessible Design (min. 80" overhead clearance, 60" min. width, max. cross slope of 1:50 and max. running slope of 1:20, max. gaps of 1/2" and no vertical rise greater than 1/4" without a beveled edge, and finally there should be no depressions greater than 1/2").		X X	3 3	Only accessible swing on accessible route via asphalt path. Recommend all elements accessed via accessible path.
9. Seating (benches, tables) is in good condition (free of splinters, missing hardware/slats, sharp edges, etc). (exempt from ASTM F1487)	X X			
10. Signs on all bordering streets advise motorists that a playground is nearby.	X X			
11. Trash receptacles are provided and located outside of play area use zone.		X X	4 4	Trash receptacles recommended

Materials and Manufacture

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Playground equipment is manufactured and constructed only of materials that have a demonstrated durability and comply with the Consumer Product Safety Improvement Act of 2008. (ASTM 4.1.2; CPSC 2.5.1)	X X			
2. Metals subject to structural degradation such as rust or corrosion are painted, galvanized or otherwise treated. (ASTM 4.1.1; CPSC 2.5.1)		X X	2 2	Certain structures have flaking paint and visible rust. Some rust has compromised the structural integrity of the metal and could fail.
3. Wood materials are naturally rot-resistant or treated to avoid deterioration. (ASTM 4.1.3; CPSC 2.5.5)		X X	3 3	Fitness equipment does not appear to be made of treated wood, has some degradation and could fail.
4. Plastics and other materials that experience ultraviolet (UV) degradation are UV protected. (ASTM 4.1.1)		X X	4 4	Steppers plastic shell is cracked and could fail. Recommend replacement.
5. Users cannot ingest, inhale, or absorb any potentially hazardous amounts of substances through body surfaces as a result of contact with the equipment. (ASTM 4.1.2 and 4.1.3; CPSC 2.5.4)	X X			
6. Moving suspended elements are connected to the fixed support w/ bearings or bearing surfaces that serve to reduce friction and wear. (ASTM 4.2.3; CPSC 2.5.2)	X X			
7. Steel cable permanently affixed to a hanger assembly performs as a bearing surface. Cable ends are inaccessible or capped. Cables or steel-cored ropes are protected to prevent fraying, loosening, unraveling, or excessive shifting. (ASTM 4.2.3.1)	X X			
8. Creosote-treated wood and coatings that contain pesticides are not used. (ASTM 4.1.3; CPSC 2.5.5)	N N/A			
9. CCA-treated wood is not used, or is regularly coated (min. once/year) w/ a penetrating sealant or stain. (CPSC 2.5.5.1)		X X	3 3	Fitness equipment is aged and could potentially have CCA. Stain or removal recommended.
10. Play structures are anchored to the ground and not intended to be relocated. (ASTM 5.3)	X X			

Use Zones

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
A. Stationary Equipment				
1. Use zone extends min. 72" on all sides of structure. Equipment intended for user to maintain contact w/ the ground during play (i.e. talk tubes, activity panels) is exempt from use zone requirements. (ASTM 9.2.1; CPSC 5.3.9)	X			
2. Use zones for 2 or more stationary structures that are play-functionally linked are treated as if separate components are part of a composite unit. (ASTM 9.2.2; CPSC 5.3.9)	N/A			
3. Use zones of stationary equipment and other equipment may overlap. If adjacent designated play surfaces of each structure are < 30", the min. distance between equipment is 72". If adjacent designated play surfaces of either structure are > 30", the min. distance between equipment is 108". (ASTM 9.2.3; CPSC 5.3.10)	X			
B. Rotating Equipment				
1. Minimum use zone for rotating eqpt is 72" from perimeter. No other structure may overlap this use zone. Rotating eqpt < 20" diameter are exempt and may be 72" apart when each have designated play surfaces < 30" high, or 108" apart when one or both have designated play surfaces > 30" high. (ASTM 9.3.2; CPSC 5.3.4.1)	N/A			
2. Single user equipment (i.e. sand diggers) where user maintains contact w/ the ground are exempt from use zone requirements. (ASTM 9.2.1)	N/A			
3. No other structure overlaps the use zone of eqpt that rotates around a horizontal axis w/ a designated play surface > 30". (ASTM 9.3.5)	N/A			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
C. To-Fro Swings				
1. Use zone to front and rear of to-fro swing is 2X where X = distance between pivot point and surfacing by width of beam. (ASTM 9.4.1.1; CPSC 5.3.8.3.3) Combination Swing Use Zone should be composed of the individual use zones as defined in 9.4.1 and 9.4.2 or both for the individual suspended elements. (ASTM 9.4.3)		X	2	Surfacing should be full depth to front and rear and 6' on each end. Recommend updating surfacing as soon as possible.
2. For swings w/ fully enclosed To-Fro swing seats, use zone is 2W where W = distance between pivot point and top of occupied sitting surface. (ASTM 9.4.1.2; CPSC 5.3.8.3.3)	N/A			
3. No other play structure overlaps the front-to-rear use zone of a to-fro swing. (ASTM 9.4.1.3; CPSC 5.3.8.3.3)	X			
4. Use zone width is at least as wide as the swing top beam. T-swings use zones have special conditions. (ASTM 9.4.1.4)	X			
5. Use zone around support structure is min. 72" in all directions from the structure. Support structure use zones for adjacent to-fro swings may overlap (6' apart). Support structure use zones may overlap w/ other equipment w/ min. 108" between structures. (ASTM 9.4.1.5; CPSC 5.3.8.3.3)		X	2	Surfacing should be full depth to front and rear and 6' on each end. Recommend updating surfacing as soon as possible.
D. Rotating Swings				
1. Use zone is min. horizontal distance of Y+72", where Y = vertical distance between pivot point and top of swing seat. (ASTM 9.4.2.1; CPSC 5.3.8.4.1)	N/A			
2. No other play structure use zone overlaps rotating swing use zone. (ASTM 9.4.2.2; CPSC 5.3.8.4.1)	N/A			
3. Use zone around support structure is min.72" in all directions from the structure. (ASTM 9.4.2.3; CPSC 5.3.8.4.1)	N/A			
4. Support structures of adjacent rotating swings may overlap (6' apart), however, swing bay clearances (Y+30") are not overlapped. (ASTM 9.4.2.4; CPSC 5.3.8.4.1)	N/A			
5. Support structure use zone may overlap use zone of other equipment w/ min. 108" between structures. (ASTM 9.4.2.5; CPSC 5.3.9)	N/A			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
E. Rocking/Springing Equipment				
1. Use zone for equipment intended for sitting is min. 72" in all directions from at-rest perimeter. (ASTM 9.5.1.1; CPSC 5.3.7)	N/A			
2. Use zone of adjacent eqpt may overlap when each structure has max. seat height and/or designated playing surface of less than or equal to 30". (ASTM 9.5.1.2; CPSC 5.3.7)	N/A			
3. Use zone of rocking/springing eqpt may overlap to 72" apart when each structure has max. designated play surface height < 30"; and to 108" apart when either has a designated play surface higher than 30" unless otherwise specified in ASTM Section 9. (ASTM 9.5.1.3; CPSC 5.3.7)	N/A			
4. Use zone for rocking/springing eqpt intended for standing is min. 84" in all directions from the at-rest perimeter. (ASTM 9.5.2.1)	N/A			
5. No other play structure use zone overlaps the standing rocking/springing structure use zone. (ASTM 9.5.2.2)	N/A			
6. Equipment w/ limited movement or eqpt on which user cannot develop enough force to launch or propel themselves away from the eqpt is exempt from these requirements. (ASTM 9.5.2.3)	N/A			
F. Slides				
1. Use zone around steps or ladder, chute, platform or slide bed of straight, wavy, or spiral slides is min. 72" from perimeter. (ASTM 9.6.1; CPSC 5.3.6.5)	X			
2. Use zone at exit is min. X where X = vertical distance from highest point of sliding surface to surfacing. Use zone at slide exit is min. 72" and need not be > 96". (ASTM 9.6.2, 9.6.2.1; CPSC 5.3.6.5)	X			
3. A clear zone, free of equipment, extends min. 21" from inside of each side wall from the end of the slide to the perimeter of the slide use zone. Clearance zones for two or more parallel slide beds may overlap. Clearance zones for converging slides may not overlap. (ASTM 8.5.6, 9.6.3)	X			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
G. Track Rides				
1. Track ride use zones are min. 72" in all directions from equipment. (ASTM 9.9.1)	X			
H. Composite Structures				
1. Use zone is min. 72" from structure perimeter, and complies w/ use zones established for individual types of eqpt. (ASTM 9.7.1 and 9.7.2; CPSC 5.3.9)	X			
2. Professional judgment may be used to eliminate hazards created by circulation conflicts or adjacent structures that are in close proximity. (ASTM 9.7.2)	X			
I. Placement of Equipment				
1. Sufficient space is provided between all adjacent structures and individual play eqpt for the purposes of play and circulation. (ASTM 9.8; CPSC 2.2.4)	X			
2. In settings where periodic overcrowding is likely, a supplemental circulation area beyond the use zone is provided, using professional judgement of owner/operator. (ASTM 9.8.2 and CPSC 2.2.4)	X			
3. Moving equipment such as swings and rotating equipment are located near the periphery away from circulation routes. (ASTM 9.8.3; CPSC 2.2.4)	X			
4. Overhead obstructions within play structure usezones are min. 84" from each designated play surface, the use zone, or the pivot point of swings. (ASTM 9.8.4.1)	X			
5. Overhead utility line clearances comply w/ all local, state, and national codes such as National Electrical Safety Code. (ASTM 9.8.4.2)	X			

Maintenance, Surfacing, Labeling, Signage

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
A. Maintenance				
1. Owner/Operator maintains detailed installation, inspection, maintenance, and repair records for each playground area. (ASTM 13.3; CPSC 4)		X	5	Recommend retaining records in future.
B. Protective Surfacing				
1. Owner/Operator maintains the protective surfacing within the use zone of each play structure in accordance w/ ASTM F1292 w/ a critical height appropriate for the fall height of each structure, and ASTM F1951 where applicable (ASTM 13.2.1; CPSC 2.4) and the Accessible Route in accordance w/ DOJ 2010 Standard (Section 1008.2.6)		X	3	Surfacing depth is less than recommended and is also not an accessible surface. Recommend replacement by Engineered Wood Fiber, or other accessible surface, to depth per manufacturer.
2. Protective surfacing is maintained free from extraneous materials that could cause injury, infection, or disease. (ASTM 13.2.2; CPSC 4)	X			
3. Surfacing is well-drained and free of standing water. (ASTM 13.2.2; CPSC 2.4.2.2)	X			
4. Written documentation available of laboratory compliance testing ASTM F1292 and F1951 and F2075 for EWF. (ASTM 13.2, 13.3)		X	5	Recommend retaining records after surfacing replacement.
5. Written documentation available of post installation compliance to the appropriate ASTM Standards. (ASTM 13.3)		X	5	Recommend retaining records after surfacing replacement.
C. Labeling				
1. On or near all play structures where applicable have posted a warning label containing... 1) signal word WARNING , 2) safety alert symbol (triangle w/ exclamation point inside) preceding signal word, and 3) warning message "Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls." (ASTM 14.2.5)		X	5	Recommend installing labels.
2. Manufacturer's identification appears, is durable, and is placed on the play structure. (ASTM 15)	X			
D. Information Signage				
1. Signs or labels provide information for age appropriateness of playground. (ASTM 14.2.1)		X	5	Recommend installing labels.
2. Signs or labels provide information stating adult supervision is recommended. (ASTM 14.2.2)		X	5	Recommend installing labels.
3. Sign posted to communicate warning for the need to remove helmets, drawstrings and items around the neck due to strangulation. (ASTM 14.2.3)		X	5	Recommend installing labels.
4. Sign posted to communicate warning about hot play surfaces and surfacing can cause severe burns to young children. (ASTM 14.2.4; CPSC 2.2.6, 2.5.3, 3.2.1)		X	5	Recommend installing labels.
5. Freestanding signs are located outside the equipment use zone to alert the user of the concern in time to take action. (ASTM 14.1.1.2, 14.1.2, 14.1.3)		X	5	Recommend installing signs.

Accessibility

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Outside the play area the Accessible Route (AR) has max. running slope of 1:20 and max. cross slope of 1:50 and a minimum of 60" wide w/ max. abrupt vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp 1:12 max. (DOJ 2010 Standard Sec. 303)	X			
2. Inside the play area the AR is at least 60" wide (W), has max. cross-slope of 1:48, and 80" overhead clearance with max. running slope no steeper than (1:16 within) (DOJ 2010 Standard Sec. 1008.2.5.1) Play areas < 1,000 sq ft may have 44" W AR to play area. When 44" AR is > 30' it must have at least one 60" diameter turning space. (DOJ 2010 Standard Sec. 1008.2.4.1)		X	3	There is space in the play area for an accessible route, however playground surfacing is not compliant. Recommend replacement by Engineered Wood Fiber, or other accessible surface, to depth per manufacturer.
3. Elevated ramps are 36" min. w/ a max. run of 144" and running slope less than or equal to 1:12 (ASTM 7.2.4)	N/A			
4. Landings have min. 60" diameter at top and bottom of each run when there is a change in direction otherwise it must be equal to width of ramp. Landings w/ play elements have 30x48" wheelchair parking area w/out reducing adjacent circulation path to < 36". (ASTM 7.2.5 and DOJ 2010 Standard Sec. 405 and 406)	N/A			
5. Ramps with 2 rails or no rails, barriers beyond the ramp edge, or barriers not extending to w/in 1" of ramp surface must have curb ≥ 2" above the ramp. (ASTM 7.5.5.5 and .6)	N/A			
6. Ramps > 30" H (for 2-5 yrs) or > 48" H (for 5-12 yrs) have barriers. (ASTM 7.5.6.1 and .2)	N/A			
7. Ramps have handrails (0.95" to 1.55") on both sides at height (H) between 26"-28". (ASTM 7.5.5.5 and DOJ 2010 Standard Sec. 1008.2.5.3.1 and .2)	N/A			
8. Transfer point H is between 11-18" w/ clear min. 24" W x 14" D. Transfer steps are max. 8" H w/ handholds to assist with transfer. (DOJ 2010 Standard Sec. 1008.3.1.1 and .2)	N/A			
9. Transfer Point has min. clear space of 60" dia. turning area at base and may overlap parking space but the 48" parking space length (L) dimension must be centered parallel to the 24" W of the transfer platform. (DOJ 2010 Standard Sec. 1008.3.1.3 Transfer Space and ASTM 7.5.4)	N/A			
10. Play area use zone has accessible safety surfacing to all accessible play components. (ASTM 7.1.1) and compliant w/ DOJ 2010 Standard Sec. 1008.2.6 Ground Surfaces)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.

Accessibility (continued)

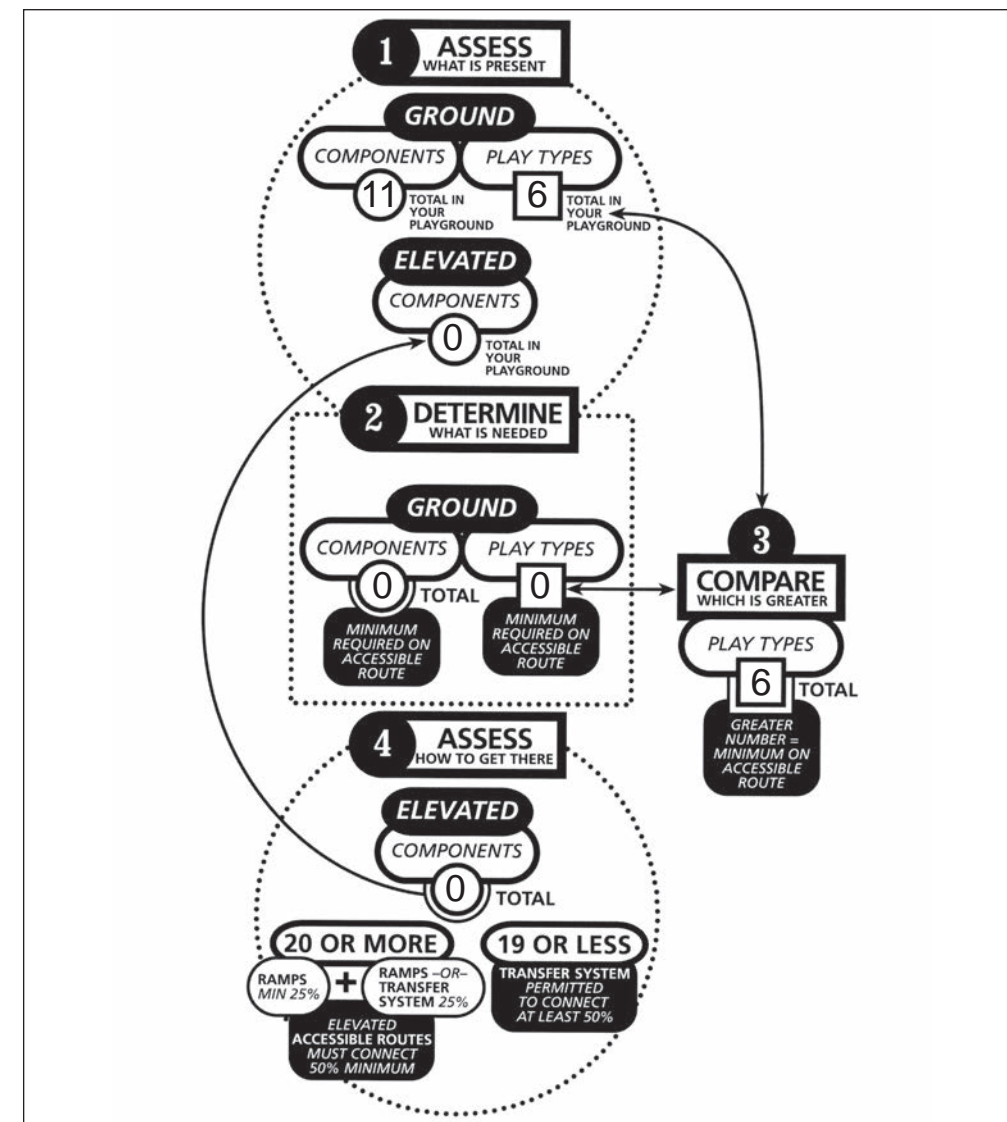
General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
11. Accessible restroom facilities, seating, drinking fountain, and shade are located in or near the play area and on the AR. (DOJ 2010 Standard Sec. 206 Accessible Routes, 206.2.17 Within a Site and Chapter 4)	X			
12. Openings on elevated wheelchair accessible access/egress points are < 15". (ASTM 7.5.6.3 (1-4) (Step Platforms, Ramps, and Upper Body and Accessible Access/Egress Components exempt.) (ASTM 7.5.5.2(3))	N/A			
13. Accessible Ramps and Platforms have - Max. Horizontal openings 0.5" sphere, Max. vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp 1:12 max. (DOJ 2010 Standard Sec. 302.2 and .3)	N/A			
14. Elevated accessible play opportunities designed w/ different access/egress points, such as slides, allow user to return unassisted to original transfer point. (DOJ 2010 Standard - Advisory Section 1008.3)	N/A			
15. Vertical Knee clearance is min. 24"H, 17"D, 30"W and 31"H max top of playing surface. (DOJ 2010 Standard - Section 1008.4.3 Play Tables)	N/A			
16. Accessible upper body eqpt, such as horizontal ladders and rings, are < 54" H. (ASTM 8.3.3)	N/A			
17. Accessible manipulative play eqpt, such as panels, are between 20-36" H for 2-5 year olds and 18-44" H for 5-12 year olds. (DOJ 2010 Standard - Section 1008.4)	N/A			
Refer to Accessibility Flow Chart for Questions 18 and 19 DOJ 2010 Standard Section 240.2 Play Components				
18. A. Where ground level components are provided at least one of each type shall be on AR. (DOJ 2010 Standard Sec. 240.2.1.1)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.
B. Meet minimum # Ground Level Play Components and Play Types on AR. (DOJ 2010 Standard Sec. 240.2.1.2)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.
19. Elevated AR connects minimum 50% Elevated Play Components by Ramp or Transfer. NOTE: 20 or more Elevated Play Components require minimum of 25% connected by Ramp. If 50% or more elevated play components are accessible by ramp they must be at least 3 different types. (DOJ 2010 Standard Sec. 240.2.1.2)	N/A			
20. All access points along AR conform to DOJ 2010 Standard Section 206.2.17, and Play Areas Section 240; Chapter 4, 402/403 Accessible Routes minimum 1:20 running slope requirements at transition points w/ side slope transition of 1:48.		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.

Use Flow Chart for Accessibility Section Questions 18 and 19

Table 240.2.1.2

Number and Types of Ground Level Play Components Required to be on Accessible Routes

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
1	Not applicable	Not applicable
2 to 4	1	1
5 to 7	2	2
8 to 10	3	3
11 to 13	4	3
14 to 16	5	3
17 to 19	6	3
20 to 22	7	4
23 to 25	8	4
26 and over	8, plus 1 for each additional 3, or fraction thereof, over 25	5



Access and Egress

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Steps/rungs are evenly spaced w/in ± .25" and horizontal w/in ± 2°. (ASTM 7.2.1)	X			
2. Steps do not allow accumulation of water or debris. (ASTM 7.2.2; CPSC 5.2.1)	X			
3. Stairways, step/rung ladders conform w/ access slope; tread, rung, ramp width; tread depth; rung diameter; and vertical rise for intended user group per ASTM Table 2. (ASTM 7.2.3; CPSC 5.2.1)	X			
4. Ramps intended for access have a max. horizontal run of 144". (ASTM 7.2.4)	N/A			
5. Landings w/ play components include wheelchair parking space w/ an adjacent circulation path ≥ 36". (ASTM 7.2.5)	N/A			
6. Continuous handrails are provided on both sides of stairs w/ > 1 tread; stairs w/ 1 tread have handrail or alternate means of support; Handrail height between 22-38" beginning at 1st step. (ASTM 7.2.6; CPSC 5.2.3)	X			
7. Handrails have diameter between .95-1.55". (ASTM 7.2.6.4; CPSC 5.2.2)	X			
8. Arch and flexible climbers not sole means of access for users 2-5. (ASTM 7.3.2.1; CPSC 5.2.1, 5.3.2.2, Table 5)	N/A			
9. Climbers used as access provide a means of hand support for use while climbing. (ASTM 7.3.2.5; CPSC 5.2.2)	N/A			
10. Stairways and stepladders have continuous handrails from access to platform. (ASTM 7.4.1; CPSC 5.2.3)	X			
11. Accesses w/o handrails (rung ladders, arch climbers, flexible components, etc.) have alternate hand gripping component to facilitate this transition to platform. (ASTM 7.4.2; CPSC 5.2.4)	N/A			
12. Stepping surface for final access on rung ladders, arch climbers, and flexible components are not connected above the designated play surface they serve. (ASTM 7.4.3; CPSC 5.2.1)	N/A			

Access and Egress (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
13. Head Entrapment... All components pass entrapment and partially-bounded opening tests. Partially bounded openings < 24" H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))	X			
14. Sharp Points and Edges... Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)	X			
15. Protrusions... All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)	X			
16. Entanglements... No protrusions project upwards > 1/8" from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8" in width and 1/8" in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)	X			
17. Entanglements... All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04"; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1) Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)	X			
18. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)	X			
19. Hardware/General Concerns				
Fasteners are corrosion-resistant or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts and bolts are self-locking or have a means to prevent detachment. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)	X			
Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)	N/A			
Equipment is free of rust/chipping paint. (CPSC 2.5.4)		X	4	Multiple instances of rust. Recommend sand and repaint.
Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)	X			


Platforms, Landings, and Walkways

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Platforms are horizontal w/in a tolerance of ± 2°. (ASTM 7.5.1; CPSC 5.1.1)	X			
2. Platforms, landings, walkways, and ramps do not trap water and accumulate debris. (ASTM 7.5.2; CPSC 5.1.1)	X			
3. Platforms, landings, walkways, and ramps, and other elevated surfaces that are accessible to wheelchairs provide a min. 36" clear width; clear width may be reduced to 32" for max. 24". (ASTM 7.5.3)	X			
4. Turning and parking spaces provided at a transfer point do not overlap. (ASTM 7.5.4)	N/A			
5. Guardrails contain no designated play surfaces. (ASTM 7.5.5)	N/A			
6. Guardrails are present on elevated surfaces > 20" when intended for 2-5, and > 30" when intended for 5-12. (ASTM 7.5.5.1; CPSC 5.1.3)	N/A			
7. Guardrails surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15". (ASTM 7.5.5.2; CPSC 5.1.3)	N/A			
8. Top surface of guardrails min. 29" when intended for 2-5, and 38" when intended for 5-12. (ASTM 7.5.5.3; CPSC 5.1.3)	N/A			
9. Lower edge of guardrails max. 23" when intended for 2-5, and 28" when intended for 5-12. (ASTM 7.5.5.4; CPSC 5.1.3)	N/A			
10. Wheelchair accessible ramps requiring guardrails for either 2-5 or 5-12 year olds have one handrail on both sides between 20-28" H. (DOJ 2010 Standard Section 1008.2.5)	N/A			
11. Wheelchair accessible ramps have 2" curb at both edges, unless guardrails and barriers don't extend to w/in 1" of ramp surface, or ramp has 2 rails and no barrier, or if barrier is beyond edge of ramp surface. (ASTM 7.5.5.6)	N/A			
12. Barriers contain no designated surface and minimize climbing. (ASTM 7.5.6; CPSC 5.1.3)	N/A			

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
13. Barriers provided on elevated surfaces > 30" when intended for 2-5, and > 48" when intended for 5-12. (ASTM 7.5.6.1)	N/A			
14. Wheelchair accessible ramps that require barriers have one handrail on both sides between 20-28" H. (DOJ 2010 Standard Section 1008.2.5)	N/A			
15. Barriers surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15". (ASTM 7.5.6.3)	N/A			
16. Top surface of barrier is 29" min. when intended for 2-5, and 38" max. when intended for 5-12. (ASTM 7.5.6.4)	N/A			
17. Adjacent platforms w/ height difference > 12" when intended for 2-5 or > 18" when intended for 5-12 have an access component. (ASTM 7.5.7.1)	N/A			
18. Head Entrapment... All components pass entrapment and partially-bounded opening tests. Partially bounded openings < 24" H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))	X			
19. Sharp Points and Edges... Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)	X			
20. Protrusions... All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)	X			
21. Entanglements... No protrusions project upwards > 1/8" from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8" in width and 1/8" in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)	X			
22. Entanglements... All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04"; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1) Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)	X			
23. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)	X			

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
24. Hardware/General Concerns				
Fasteners are corrosion-resistant or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts and bolts are self-locking or have a means to prevent detachment. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)	X			
Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)	X			
Equipment is free of rust/chipping paint. (CPSC 2.5.4)	X			
Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)	X			

Playground Safety Compliance Audit Form

Inspector (print) Meghan Talarowski Signature  CPSI # 32886-1118
 Date 10/25/18 Time 3:00pm Weather Sunny, 45 degrees
 Playground Name and/or Identification Number Ferguson Elementary School

Injuries to children may occur from many types of playground equipment and environmental conditions. The checklist on the following pages will help you to assess and correct safety concerns that may be present on or near your playground. While it does not cover every potential safety concern in a children's environment, it is an overview of most known playground safety concerns. The checklist does not apply to home playground equipment, amusement park equipment, or to equipment normally intended for sports use. The checklist also does not address the many important issues of child development that pertain to play.

The playground safety compliance audit form is not a regulatory standard, but a compilation of suggested guidelines based upon the *Public Playground Safety Handbook* written by the U.S. Consumer Product Safety Commission (CPSC)¹ Revised November 2010; American Society for Testing and Materials (ASTM)² F1487-11 Standard; Department of Justice 2010 ADA Standards for Accessible Design (2010 Standards) for Title II (28 CFR Part 35) and Title III (28 CFR Part 36), Sections 240 and 1008 Play Areas³ (These accessibility standards published in the Federal Register on September 15, 2010 can be found at: <http://www.ada.gov/regs2010/2010ADASTandards/2010ADAstandards.htm>) and expert opinions from individuals with a vast amount of experience in the field of playground safety.

Acknowledgments:

- Created from the "Statewide Comprehensive Injury Prevention Program" (SCIPP), Department of Public Health, 150 Trecost Street, Boston, MA 02111
- Adapted as Wheaton Park District's "Initial Playground Safety Audit" September, 1989, Revised December 20, 1990 and November, 1991, Ken Kutska, CPRP
- Edited and updated June, 1992, by Ken Kutska, CPRP, and Kevin Hoffman, ARM, Park District Risk Management Agency
- Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Edited and updated March, 2003, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Excel™ formatted 2004, revised citations to 2008 CPSC *Handbook* and ASTM F1487-07ae¹ Standard, August, 2008, by Steve Plumb, CPRP, CPSI
- Revised September 2008 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director
- Revised August 2011 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director

1. U.S. Consumer Product Safety Commission, (CPSC), 4330 East West Highway, Bethesda, MD 20814
 2. American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428
 3. U.S. Access Board, 1331 F Street, NW, Suite 1000, Washington, DC, 20004
 (<http://www.ada.gov/regs2010/ADAREgs2010.htm>)

Playground Safety Audit Forms

Background Information

IMPORTANT: This information has been prepared to assist the agency's attorney in defending potential litigation. Do not release to any person except an agency official, insurance representative, or an investigating police officer.

Play Area: Ferguson Elementary School Date: 10/25/18
 Eqpt Type: Composite Structures, Swings, Climbers, Slide, Panels Surface: Wood Mulch
 Audited By: Meghan Talarowski Intended User Age: 5-12

General Environment

1. Category of Playground: (check all that apply)

Community Park Public School Childcare Center
 Neighborhood Park/Tot Lot Private School Other: _____

2. Equipment Inventory: (indicate the number of equipment pieces that exist)

A. Composite Structures	B. Freestanding Eqpt	C. Site Amenities
stairways/step ladders _____	swings (to-fro) <u>2</u> _____	benches _____
stairways/step ladders _____	rotating swings _____	tables _____
rigid climbers <u>4</u> _____	seesaws _____	water fountains _____
flexible climbers _____	slides <u>2</u> _____	bicycle racks _____
decks/platforms _____	rigid climbers <u>2</u> _____	wheelchair parking _____
play panels _____	flexible climbers _____	signs (safety) _____
slides _____	upper body eqpt <u>3</u> _____	litter barrels _____
sliding poles _____	rocking eqpt <u>1</u> _____	fencing <u>X</u> _____
horizontal ladders <u>1</u> _____	merry-go-round _____	accessible route to play area _____
horizontal rings _____	spinner (< 20" D) _____	other _____
track rides _____	sand play area _____	other _____
crawl tunnels _____	backhoe digger _____	other _____
clatter/other bridges _____	play panels <u>2</u> _____	other _____
ramps _____	stepping pods _____	
transfer stations _____	net climber _____	Balance Beam _____
roofs _____	other _____	Tunnel _____
other _____	other _____	
other _____	other _____	

General Environment (continued)

3. Playground Perimeter Concerns

Directions: Check all potential concerns that exist, and indicate the actual distance item is from play area border. The owner/operator shall evaluate each border concern for possible mitigation.

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Playground Perimeter Concerns	Distance from Border	Priority Rating	Comments
1st public street	>100'		
2nd public street	>100'		
3rd public street			
4th public street			
streets with heavy traffic			
water (ponds/streams/ditch)			
soccer/football field			
baseball/softball field (home plate)			
basketball court	6'		
parking lot	50'		Recommend fencing between play area and parking lot.
railroad tracks			
trees (not pruned up at least 84" within playground area)			
golf course			
quarry pit (cliff-like condition)			
contaminated area/landfill			
other (specify)			
other (specify)			
other (specify)			

General Environment (continued)

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General Environment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
4. If needed, fence is provided for perimeter concerns. See Pg 2 for list of concerns. (CPSC 2.1) (Fencing Reference ASTM F2049)	X X			
5. Shaded area is provided. (CPSC 2.1.1)		X X	4 4	Shade recommended
6. Play area is visible to deter inappropriate behavior. (CPSC 2.2.4)	X X			
7. Equipment not recommended on public playgrounds include... climbing ropes not secured at both ends, trampolines, swinging gates, giant strides, heavy metal swings (animal swings), rope swings, swinging dual exercise rings and trapeze bars. (CPSC 2.3.1)	X X			
8. Playground is accessed safely by a sidewalk that is free of standing water, pea gravel, and low branches and complies with the DOJ 2010 Standard for Accessible Design (min. 80" overhead clearance, 60" min. width, max. cross slope of 1:50 and max. running slope of 1:20, max. gaps of 1/2" and no vertical rise greater than 1/4" without a beveled edge, and finally there should be no depressions greater than 1/2").		X X	3 3	Playground is accessed via surface asphalt from building. Playground surfacing is not compliant however, and is recommended to be replaced by Engineered Wood Fiber, or other accessible surface
9. Seating (benches, tables) is in good condition (free of splinters, missing hardware/slats, sharp edges, etc). (exempt from ASTM F1487)	NNAA			
10. Signs on all bordering streets advise motorists that a playground is nearby.	X X			
11. Trash receptacles are provided and located outside of play area use zone.		X X	4 4	Trash receptacles recommended

Materials and Manufacture

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General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Playground equipment is manufactured and constructed only of materials that have a demonstrated durability and comply with the Consumer Product Safety Improvement Act of 2008. (ASTM 4.1.2; CPSC 2.5.1)	X X			
2. Metals subject to structural degradation such as rust or corrosion are painted, galvanized or otherwise treated. (ASTM 4.1.1; CPSC 2.5.1)		X X	2 2	Certain structures have flaking paint and visible rust. Some rust has compromised the structural integrity of the metal and could fail.
3. Wood materials are naturally rot-resistant or treated to avoid deterioration. (ASTM 4.1.3; CPSC 2.5.5)		X X	3 3	Sand box wood is degraded and should be replaced.
4. Plastics and other materials that experience ultraviolet (UV) degradation are UV protected. (ASTM 4.1.1)	X X			
5. Users cannot ingest, inhale, or absorb any potentially hazardous amounts of substances through body surfaces as a result of contact with the equipment. (ASTM 4.1.2 and 4.1.3; CPSC 2.5.4)	X X			
6. Moving suspended elements are connected to the fixed support w/ bearings or bearing surfaces that serve to reduce friction and wear. (ASTM 4.2.3; CPSC 2.5.2)	X X			
7. Steel cable permanently affixed to a hanger assembly performs as a bearing surface. Cable ends are inaccessible or capped. Cables or steel-cored ropes are protected to prevent fraying, loosening, unraveling, or excessive shifting. (ASTM 4.2.3.1)	X X			
8. Creosote-treated wood and coatings that contain pesticides are not used. (ASTM 4.1.3; CPSC 2.5.5)		X X	3 3	Sand box wood is of unknown origin and could have pesticides.
9. CCA-treated wood is not used, or is regularly coated (min. once/year) w/ a penetrating sealant or stain. (CPSC 2.5.5.1)		X X	3 3	Sand box wood is of unknown origin and could have CCA.
10. Play structures are anchored to the ground and not intended to be relocated. (ASTM 5.3)	X X			

Use Zones

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General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
A. Stationary Equipment				
1. Use zone extends min. 72" on all sides of structure. Equipment intended for user to maintain contact w/ the ground during play (i.e. talk tubes, activity panels) is exempt from use zone requirements. (ASTM 9.2.1; CPSC 5.3.9)	X			
2. Use zones for 2 or more stationary structures that are play-functionally linked are treated as if separate components are part of a composite unit. (ASTM 9.2.2; CPSC 5.3.9)	N/A			
3. Use zones of stationary equipment and other equipment may overlap. If adjacent designated play surfaces of each structure are < 30", the min. distance between equipment is 72". If adjacent designated play surfaces of either structure are > 30", the min. distance between equipment is 108". (ASTM 9.2.3; CPSC 5.3.10)	X			
B. Rotating Equipment				
1. Minimum use zone for rotating eqpt is 72" from perimeter. No other structure may overlap this use zone. Rotating eqpt < 20" diameter are exempt and may be 72" apart when each have designated play surfaces < 30" high, or 108" apart when one or both have designated play surfaces > 30" high. (ASTM 9.3.2; CPSC 5.3.4.1)	N/A			
2. Single user equipment (i.e. sand diggers) where user maintains contact w/ the ground are exempt from use zone requirements. (ASTM 9.2.1)	N/A			
3. No other structure overlaps the use zone of eqpt that rotates around a horizontal axis w/ a designated play surface > 30". (ASTM 9.3.5)	N/A			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
C. To-Fro Swings				
1. Use zone to front and rear of to-fro swing is 2X where X = distance between pivot point and surfacing by width of beam. (ASTM 9.4.1.1; CPSC 5.3.8.3.3) Combination Swing Use Zone should be composed of the individual use zones as defined in 9.4.1 and 9.4.2 or both for the individual suspended elements. (ASTM 9.4.3)		X	3	Surfacing should be full depth to front and rear and 6' on each end.
2. For swings w/ fully enclosed To-Fro swing seats, use zone is 2W where W = distance between pivot point and top of occupied sitting surface. (ASTM 9.4.1.2; CPSC 5.3.8.3.3)	N/A			
3. No other play structure overlaps the front-to-rear use zone of a to-fro swing. (ASTM 9.4.1.3; CPSC 5.3.8.3.3)	X			
4. Use zone width is at least as wide as the swing top beam. T-swings use zones have special conditions. (ASTM 9.4.1.4)	X			
5. Use zone around support structure is min. 72" in all directions from the structure. Support structure use zones for adjacent to-fro swings may overlap (6' apart). Support structure use zones may overlap w/ other equipment w/ min. 108" between structures. (ASTM 9.4.1.5; CPSC 5.3.8.3.3)		X	3	Surfacing should be full depth to front and rear and 6' on each end.
D. Rotating Swings				
1. Use zone is min. horizontal distance of Y+72", where Y = vertical distance between pivot point and top of swing seat. (ASTM 9.4.2.1; CPSC 5.3.8.4.1)	N/A			
2. No other play structure use zone overlaps rotating swing use zone. (ASTM 9.4.2.2; CPSC 5.3.8.4.1)	N/A			
3. Use zone around support structure is min.72" in all directions from the structure. (ASTM 9.4.2.3; CPSC 5.3.8.4.1)	N/A			
4. Support structures of adjacent rotating swings may overlap (6' apart), however, swing bay clearances (Y+30") are not overlapped. (ASTM 9.4.2.4; CPSC 5.3.8.4.1)	N/A			
5. Support structure use zone may overlap use zone of other equipment w/ min. 108" between structures. (ASTM 9.4.2.5; CPSC 5.3.9)	N/A			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
E. Rocking/Springing Equipment				
1. Use zone for equipment intended for sitting is min. 72" in all directions from at-rest perimeter. (ASTM 9.5.1.1; CPSC 5.3.7)	N/A			
2. Use zone of adjacent eqpt may overlap when each structure has max. seat height and/or designated playing surface of less than or equal to 30". (ASTM 9.5.1.2; CPSC 5.3.7)	N/A			
3. Use zone of rocking/springing eqpt may overlap to 72" apart when each structure has max. designated play surface height < 30"; and to 108" apart when either has a designated play surface higher than 30" unless otherwise specified in ASTM Section 9. (ASTM 9.5.1.3; CPSC 5.3.7)	N/A			
4. Use zone for rocking/springing eqpt intended for standing is min. 84" in all directions from the at-rest perimeter. (ASTM 9.5.2.1)	N/A			
5. No other play structure use zone overlaps the standing rocking/springing structure use zone. (ASTM 9.5.2.2)	N/A			
6. Equipment w/ limited movement or eqpt on which user cannot develop enough force to launch or propel themselves away from the eqpt is exempt from these requirements. (ASTM 9.5.2.3)	N/A			
F. Slides				
1. Use zone around steps or ladder, chute, platform or slide bed of straight, wavy, or spiral slides is min. 72" from perimeter. (ASTM 9.6.1; CPSC 5.3.6.5)		X	2	Slide is in the use area of two adjacent structures (slide and tunnel) and must be removed as soon as possible.
2. Use zone at exit is min. X where X = vertical distance from highest point of sliding surface to surfacing. Use zone at slide exit is min. 72" and need not be > 96". (ASTM 9.6.2, 9.6.2.1; CPSC 5.3.6.5)		X	2	Slide is in the use area of two adjacent structures (slide and tunnel) and must be removed as soon as possible.
3. A clear zone, free of equipment, extends min. 21" from inside of each side wall from the end of the slide to the perimeter of the slide use zone. Clearance zones for two or more parallel slide beds may overlap. Clearance zones for converging slides may not overlap. (ASTM 8.5.6, 9.6.3)	X			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
G. Track Rides				
1. Track ride use zones are min. 72" in all directions from equipment. (ASTM 9.9.1)	N/A			
H. Composite Structures				
1. Use zone is min. 72" from structure perimeter, and complies w/ use zones established for individual types of eqpt. (ASTM 9.7.1 and 9.7.2; CPSC 5.3.9)	X			
2. Professional judgment may be used to eliminate hazards created by circulation conflicts or adjacent structures that are in close proximity. (ASTM 9.7.2)	X			
I. Placement of Equipment				
1. Sufficient space is provided between all adjacent structures and individual play eqpt for the purposes of play and circulation. (ASTM 9.8; CPSC 2.2.4)	X			
2. In settings where periodic overcrowding is likely, a supplemental circulation area beyond the use zone is provided, using professional judgement of owner/operator. (ASTM 9.8.2 and CPSC 2.2.4)	X			
3. Moving equipment such as swings and rotating equipment are located near the periphery away from circulation routes. (ASTM 9.8.3; CPSC 2.2.4)	X			
4. Overhead obstructions within play structure usezones are min. 84" from each designated play surface, the use zone, or the pivot point of swings. (ASTM 9.8.4.1)	X			
5. Overhead utility line clearances comply w/ all local, state, and national codes such as National Electrical Safety Code. (ASTM 9.8.4.2)	X			

Maintenance, Surfacing, Labeling, Signage

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
A. Maintenance				
1. Owner/Operator maintains detailed installation, inspection, maintenance, and repair records for each playground area. (ASTM 13.3; CPSC 4)		X	5	Recommend retaining records in future.
B. Protective Surfacing				
1. Owner/Operator maintains the protective surfacing within the use zone of each play structure in accordance w/ ASTM F1292 w/ a critical height appropriate for the fall height of each structure, and ASTM F1951 where applicable (ASTM 13.2.1; CPSC 2.4) and the Accessible Route in accordance w/ DOJ 2010 Standard (Section 1008.2.6)		X	3	Surfacing depth is less than recommended and is also not an accessible surface. Recommend replacement by Engineered Wood Fiber, or other accessible surface, to depth per manufacturer.
2. Protective surfacing is maintained free from extraneous materials that could cause injury, infection, or disease. (ASTM 13.2.2; CPSC 4)	X			
3. Surfacing is well-drained and free of standing water. (ASTM 13.2.2; CPSC 2.4.2.2)	X			
4. Written documentation available of laboratory compliance testing ASTM F1292 and F1951 and F2075 for EWF. (ASTM 13.2, 13.3)		X	5	Recommend retaining records after surfacing replacement.
5. Written documentation available of post installation compliance to the appropriate ASTM Standards. (ASTM 13.3)		X	5	Recommend retaining records after surfacing replacement.
C. Labeling				
1. On or near all play structures where applicable have posted a warning label containing... 1) signal word WARNING , 2) safety alert symbol (triangle w/ exclamation point inside) preceding signal word, and 3) warning message "Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls." (ASTM 14.2.5)		X	5	Recommend installing labels.
2. Manufacturer's identification appears, is durable, and is placed on the play structure. (ASTM 15)	X			
D. Information Signage				
1. Signs or labels provide information for age appropriateness of playground. (ASTM 14.2.1)		X	5	Recommend installing labels.
2. Signs or labels provide information stating adult supervision is recommended. (ASTM 14.2.2)		X	5	Recommend installing labels.
3. Sign posted to communicate warning for the need to remove helmets, drawstrings and items around the neck due to strangulation. (ASTM 14.2.3)		X	5	Recommend installing labels.
4. Sign posted to communicate warning about hot play surfaces and surfacing can cause severe burns to young children. (ASTM 14.2.4; CPSC 2.2.6, 2.5.3, 3.2.1)		X	5	Recommend installing labels.
5. Freestanding signs are located outside the equipment use zone to alert the user of the concern in time to take action. (ASTM 14.1.1.2, 14.1.2, 14.1.3)		X	5	Recommend installing signs.

Accessibility

This form is provided so that owner/operators can evaluate appropriate accessibility requirements from the Department of Justice 2010 ADA Standards for Accessible Design (2010 Standards) for Title II (28 CFR Part 35) and Title III (28 CFR Part 36), Sections 240 and 1008 Play Areas. This Federal Law became enforceable in March of 2011. These items will not be found in ASTM or CPSC documents but the Law is referenced in both. This Section will assist in your assessment of compliance to the minimum requirements of this Standard.

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General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Outside the play area the Accessible Route (AR) has max. running slope of 1:20 and max. cross slope of 1:50 and a minimum of 60" wide w/ max. abrupt vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp 1:12 max. (DOJ 2010 Standard Sec. 303)	X			
2. Inside the play area the AR is at least 60" wide (W), has max. cross-slope of 1:48, and 80" overhead clearance with max. running slope no steeper than (1:16 within) (DOJ 2010 Standard Sec. 1008.2.5.1) Play areas < 1,000 sq ft may have 44" W AR to play area. When 44" AR is > 30' it must have at least one 60" diameter turning space. (DOJ 2010 Standard Sec. 1008.2.4.1)		X	3	There is space in the play area for an accessible route, however playground surfacing is not compliant. Recommend replacement by Engineered Wood Fiber, or other accessible surface, to depth per manufacturer.
3. Elevated ramps are 36" min. w/ a max. run of 144" and running slope less than or equal to 1:12 (ASTM 7.2.4)	N/A			
4. Landings have min. 60" diameter at top and bottom of each run when there is a change in direction otherwise it must be equal to width of ramp. Landings w/ play elements have 30x48" wheelchair parking area w/out reducing adjacent circulation path to < 36". (ASTM 7.2.5 and DOJ 2010 Standard Sec. 405 and 406)	N/A			
5. Ramps with 2 rails or no rails, barriers beyond the ramp edge, or barriers not extending to w/in 1" of ramp surface must have curb ≥ 2" above the ramp. (ASTM 7.5.5.5 and .6)	N/A			
6. Ramps > 30" H (for 2-5 yrs) or > 48" H (for 5-12 yrs) have barriers. (ASTM 7.5.6.1 and .2)	N/A			
7. Ramps have handrails (0.95" to 1.55") on both sides at height (H) between 26"-28". (ASTM 7.5.5.5 and DOJ 2010 Standard Sec. 1008.2.5.3.1 and .2)	N/A			
8. Transfer point H is between 11-18" w/ clear min. 24" W x 14" D. Transfer steps are max. 8" H w/ handholds to assist with transfer. (DOJ 2010 Standard Sec. 1008.3.1.1 and .2)	N/A			
9. Transfer Point has min. clear space of 60" dia. turning area at base and may overlap parking space but the 48" parking space length (L) dimension must be centered parallel to the 24" W of the transfer platform. (DOJ 2010 Standard Sec. 1008.3.1.3 Transfer Space and ASTM 7.5.4)	N/A			
10. Play area use zone has accessible safety surfacing to all accessible play components. (ASTM 7.1.1) and compliant w/ DOJ 2010 Standard Sec. 1008.2.6 Ground Surfaces)	X		3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.

Accessibility (continued)

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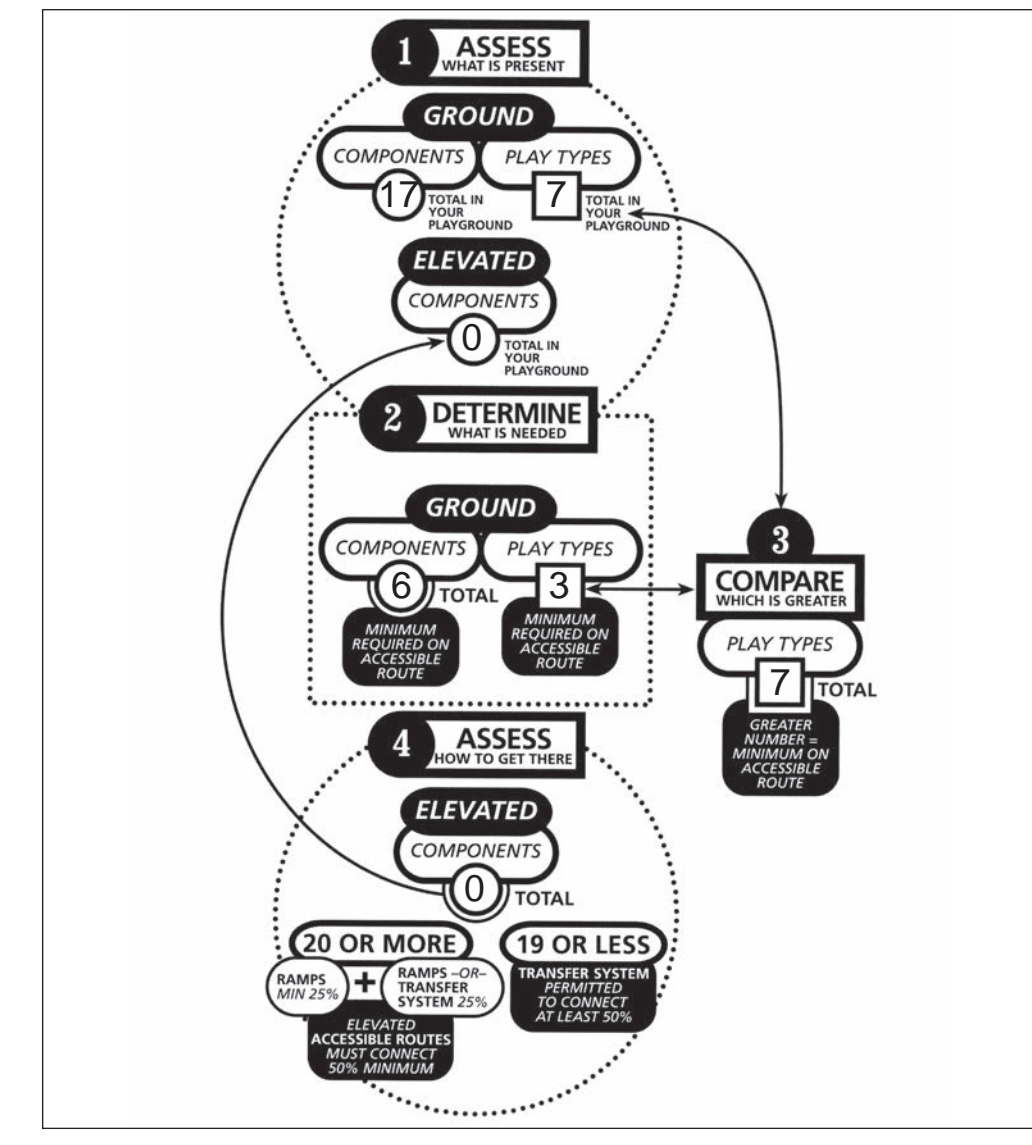
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General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
11. Accessible restroom facilities, seating, drinking fountain, and shade are located in or near the play area and on the AR. (DOJ 2010 Standard Sec. 206 Accessible Routes, 206.2.17 Within a Site and Chapter 4)	X			
12. Openings on elevated wheelchair accessible access/egress points are < 15". (ASTM 7.5.6.3 (1-4) (Step Platforms, Ramps, and Upper Body and Accessible Access/Egress Components exempt.) (ASTM 7.5.5.2(3))	N/A			
13. Accessible Ramps and Platforms have - Max. Horizontal openings 0.5" sphere, Max. vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp 1:12 max. (DOJ 2010 Standard Sec. 302.2 and .3)	N/A			
14. Elevated accessible play opportunities designed w/ different access/egress points, such as slides, allow user to return unassisted to original transfer point. (DOJ 2010 Standard - Advisory Section 1008.3)	N/A			
15. Vertical Knee clearance is min. 24"H, 17"D, 30"W and 31"H max top of playing surface. (DOJ 2010 Standard - Section 1008.4.3 Play Tables)	N/A			
16. Accessible upper body eqpt, such as horizontal ladders and rings, are < 54" H. (ASTM 8.3.3)	N/A			
17. Accessible manipulative play eqpt, such as panels, are between 20-36" H for 2-5 year olds and 18-44" H for 5-12 year olds. (DOJ 2010 Standard - Section 1008.4)	N/A			
Refer to Accessibility Flow Chart for Questions 18 and 19 DOJ 2010 Standard Section 240.2 Play Components				
18. A. Where ground level components are provided at least one of each type shall be on AR. (DOJ 2010 Standard Sec. 240.2.1.1)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.
B. Meet minimum # Ground Level Play Components and Play Types on AR. (DOJ 2010 Standard Sec. 240.2.1.2)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.
19. Elevated AR connects minimum 50% Elevated Play Components by Ramp or Transfer. NOTE: 20 or more Elevated Play Components require minimum of 25% connected by Ramp. If 50% or more elevated play components are accessible by ramp they must be at least 3 different types. (DOJ 2010 Standard Sec. 240.2.1.2)	N/A			
20. All access points along AR conform to DOJ 2010 Standard Section 206.2.17, and Play Areas Section 240; Chapter 4, 402/403 Accessible Routes minimum 1:20 running slope requirements at transition points w/ side slope transition of 1:48.		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.

Use Flow Chart for Accessibility Section Questions 18 and 19

Table 240.2.1.2
Number and Types of Ground Level Play Components Required to be on Accessible Routes

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
1	Not applicable	Not applicable
2 to 4	1	1
5 to 7	2	2
8 to 10	3	3
11 to 13	4	3
14 to 16	5	3
17 to 19	6	3
20 to 22	7	4
23 to 25	8	4
26 and over	8, plus 1 for each additional 3, or fraction thereof, over 25	5



Access and Egress

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General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Steps/rungs are evenly spaced w/in ± .25" and horizontal w/in ± 2". (ASTM 7.2.1)	X			
2. Steps do not allow accumulation of water or debris. (ASTM 7.2.2; CPSC 5.2.1)	X			
3. Stairways, step/rung ladders conform w/ access slope; tread, rung, ramp width; tread depth; rung diameter; and vertical rise for intended user group per ASTM Table 2. (ASTM 7.2.3; CPSC 5.2.1)	X			
4. Ramps intended for access have a max. horizontal run of 144". (ASTM 7.2.4)	N/A			
5. Landings w/ play components include wheelchair parking space w/ an adjacent circulation path ≥ 36". (ASTM 7.2.5)	N/A			
6. Continuous handrails are provided on both sides of stairs w/ > 1 tread; stairs w/ 1 tread have handrail or alternate means of support; Handrail height between 22-38" beginning at 1st step. (ASTM 7.2.6; CPSC 5.2.3)	X			
7. Handrails have diameter between .95-1.55". (ASTM 7.2.6.4; CPSC 5.2.2)	X			
8. Arch and flexible climbers not sole means of access for users 2-5. (ASTM 7.3.2.1; CPSC 5.2.1, 5.3.2.2, Table 5)	N/A			
9. Climbers used as access provide a means of hand support for use while climbing. (ASTM 7.3.2.5; CPSC 5.2.2)	N/A			
10. Stairways and stepladders have continuous handrails from access to platform. (ASTM 7.4.1; CPSC 5.2.3)	X			
11. Accesses w/o handrails (rung ladders, arch climbers, flexible components, etc.) have alternate hand gripping component to facilitate this transition to platform. (ASTM 7.4.2; CPSC 5.2.4)	N/A			
12. Stepping surface for final access on rung ladders, arch climbers, and flexible components are not connected above the designated play surface they serve. (ASTM 7.4.3; CPSC 5.2.1)	N/A			

Access and Egress (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
13. Head Entrapment... All components pass entrapment and partially-bounded opening tests. Partially bounded openings < 24" H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))	X			
14. Sharp Points and Edges... Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)	X			
15. Protrusions... All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)	X			
16. Entanglements... No protrusions project upwards > 1/8" from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8" in width and 1/8" in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)	X			
17. Entanglements... All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04"; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1) Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)	X			
18. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)	X			
19. Hardware/General Concerns				
Fasteners are corrosion-resistant or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts and bolts are self-locking or have a means to prevent detachment. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)	X			
Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)	N/A			
Equipment is free of rust/chipping paint. (CPSC 2.5.4)		X	4	Multiple instances of rust. Recommend sand and repaint.
Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)	X			

Platforms, Landings, and Walkways

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Platforms are horizontal w/in a tolerance of ± 2°. (ASTM 7.5.1; CPSC 5.1.1)	X			
2. Platforms, landings, walkways, and ramps do not trap water and accumulate debris. (ASTM 7.5.2; CPSC 5.1.1)	X			
3. Platforms, landings, walkways, and ramps, and other elevated surfaces that are accessible to wheelchairs provide a min. 36" clear width; clear width may be reduced to 32" for max. 24". (ASTM 7.5.3)	X			
4. Turning and parking spaces provided at a transfer point do not overlap. (ASTM 7.5.4)	N/A			
5. Guardrails contain no designated play surfaces. (ASTM 7.5.5)	N/A			
6. Guardrails are present on elevated surfaces > 20" when intended for 2-5, and > 30" when intended for 5-12. (ASTM 7.5.5.1; CPSC 5.1.3)	N/A			
7. Guardrails surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15". (ASTM 7.5.5.2; CPSC 5.1.3)	N/A			
8. Top surface of guardrails min. 29" when intended for 2-5, and 38" when intended for 5-12. (ASTM 7.5.5.3; CPSC 5.1.3)	N/A			
9. Lower edge of guardrails max. 23" when intended for 2-5, and 28" when intended for 5-12. (ASTM 7.5.5.4; CPSC 5.1.3)	N/A			
10. Wheelchair accessible ramps requiring guardrails for either 2-5 or 5-12 year olds have one handrail on both sides between 20-28" H. (DOJ 2010 Standard Section 1008.2.5)	N/A			
11. Wheelchair accessible ramps have 2" curb at both edges, unless guardrails and barriers don't extend to w/in 1" of ramp surface, or ramp has 2 rails and no barrier, or if barrier is beyond edge of ramp surface. (ASTM 7.5.5.6)	N/A			
12. Barriers contain no designated surface and minimize climbing. (ASTM 7.5.6; CPSC 5.1.3)	N/A			

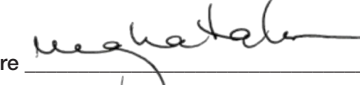
Platforms, Landings, and Walkways (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
13. Barriers provided on elevated surfaces > 30" when intended for 2-5, and > 48" when intended for 5-12. (ASTM 7.5.6.1)	N/A			
14. Wheelchair accessible ramps that require barriers have one handrail on both sides between 20-28" H. (DOJ 2010 Standard Section 1008.2.5)	N/A			
15. Barriers surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15". (ASTM 7.5.6.3)	N/A			
16. Top surface of barrier is 29" min. when intended for 2-5, and 38" max. when intended for 5-12. (ASTM 7.5.6.4)	N/A			
17. Adjacent platforms w/ height difference > 12" when intended for 2-5 or > 18" when intended for 5-12 have an access component. (ASTM 7.5.7.1)	N/A			
18. Head Entrapment... All components pass entrapment and partially-bounded opening tests. Partially bounded openings < 24" H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))	X			
19. Sharp Points and Edges... Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)	X			
20. Protrusions... All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)	X			
21. Entanglements... No protrusions project upwards > 1/8" from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8" in width and 1/8" in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)	X			
22. Entanglements... All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04"; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1) Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)	X			
23. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)	X			

Platforms, Landings, and Walkways (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
24. Hardware/General Concerns				
Fasteners are corrosion-resistant or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts and bolts are self-locking or have a means to prevent detachment. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)	X			
Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)	X			
Equipment is free of rust/chipping paint. (CPSC 2.5.4)	X			
Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)	X			

Playground Safety Compliance Audit Form

Inspector (print) Meghan Talarowski Signature  CPSI # 32886-1118
 Date 10/24/18 Time 11:00am Weather Sunny, 45 degrees
 Playground Name and/or Identification Number Grays Woods Elementary School

Injuries to children may occur from many types of playground equipment and environmental conditions. The checklist on the following pages will help you to assess and correct safety concerns that may be present on or near your playground. While it does not cover every potential safety concern in a children's environment, it is an overview of most known playground safety concerns. The checklist does not apply to home playground equipment, amusement park equipment, or to equipment normally intended for sports use. The checklist also does not address the many important issues of child development that pertain to play.

The playground safety compliance audit form is not a regulatory standard, but a compilation of suggested guidelines based upon the *Public Playground Safety Handbook* written by the U.S. Consumer Product Safety Commission (CPSC)¹ Revised November 2010; American Society for Testing and Materials (ASTM)² F1487-11 Standard; Department of Justice 2010 ADA Standards for Accessible Design (2010 Standards) for Title II (28 CFR Part 35) and Title III (28 CFR Part 36), Sections 240 and 1008 Play Areas³ (These accessibility standards published in the Federal Register on September 15, 2010 can be found at: <http://www.ada.gov/reg2010/2010ADASTandards/2010ADAstandards.htm>) and expert opinions from individuals with a vast amount of experience in the field of playground safety.

Acknowledgments:

- Created from the "Statewide Comprehensive Injury Prevention Program" (SCIPP), Department of Public Health, 150 Trecost Street, Boston, MA 02111
- Adapted as Wheaton Park District's "Initial Playground Safety Audit" September, 1989, Revised December 20, 1990 and November, 1991, Ken Kutska, CPRP
- Edited and updated June, 1992, by Ken Kutska, CPRP, and Kevin Hoffman, ARM, Park District Risk Management Agency
- Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Edited and updated March, 2003, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Excel™ formatted 2004, revised citations to 2008 CPSC *Handbook* and ASTM F1487-07ae¹ Standard, August, 2008, by Steve Plumb, CPRP, CPSI
- Revised September 2008 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director
- Revised August 2011 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director

1. U.S. Consumer Product Safety Commission, (CPSC), 4330 East West Highway, Bethesda, MD 20814
 2. American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428
 3. U.S. Access Board, 1331 F Street, NW, Suite 1000, Washington, DC, 20004
 (<http://www.ada.gov/reg2010/ADAregs2010.htm>)

Playground Safety Audit Forms

Background Information

Page 1

IMPORTANT: This information has been prepared to assist the agency's attorney in defending potential litigation. Do not release to any person except an agency official, insurance representative, or an investigating police officer.

Play Area: Grays Woods Elementary School Date: 10/24/18
 Eqpt Type: Composite Structure, Swings, Fitness Equipment, Climber Surface: Wood Mulch
 Audited By: Meghan Talarowski Intended User Age: 5-12

General Environment

1. Category of Playground: (check all that apply)
 Community Park Public School Childcare Center
 Neighborhood Park/Tot Lot Private School Other: _____

2. Equipment Inventory: (indicate the number of equipment pieces that exist)

A. Composite Structures	B. Freestanding Eqpt	C. Site Amenities
stairways/step ladders <u>2</u>	swings (to-fro) <u>1</u>	benches _____
stairways/step ladders _____	rotating swings _____	tables <u>1</u>
rigid climbers <u>1</u>	seesaws _____	water fountains _____
flexible climbers <u>2</u>	slides _____	bicycle racks _____
decks/platforms <u>4</u>	rigid climbers <u>1</u>	wheelchair parking _____
play panels <u>3</u>	flexible climbers _____	signs (safety) _____
slides <u>6</u>	upper body eqpt <u>2</u>	litter barrels _____
sliding poles _____	rocking eqpt <u>4</u>	fencing <u>X</u>
horizontal ladders <u>1</u>	merry-go-round _____	accessible route to play area <u>X</u>
horizontal rings _____	spinner (< 20" D) _____	other _____
track rides _____	sand play area _____	other _____
crawl tunnels _____	backhoe digger _____	other _____
clatter/other bridges _____	play panels _____	other _____
ramps _____	stepping pods <u>1</u>	
transfer stations <u>2</u>	net climber _____	Tunnel _____
roofs _____	other _____	
other _____	other _____	
other _____	other _____	

General Environment (continued)

3. Playground Perimeter Concerns

Directions: Check all potential concerns that exist, and indicate the actual distance item is from play area border. The owner/operator shall evaluate each border concern for possible mitigation.

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Playground Perimeter Concerns	Distance from Border	Priority Rating	Comments
1st public street	>100'		
2nd public street	>100'		
3rd public street			
4th public street			
streets with heavy traffic			
water (ponds/streams/ditch)			
soccer/football field			
baseball/softball field (home plate)			
basketball court	5'		
parking lot	50'		Consider a fence between playground and parking lot
railroad tracks			
trees (not pruned up at least 84" within playground area)			
golf course			
quarry pit (cliff-like condition)			
contaminated area/landfill			
other (specify)			
other (specify)			
other (specify)			

General Environment (continued)

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General Environment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
4. If needed, fence is provided for perimeter concerns. See Pg 2 for list of concerns. (CPSC 2.1) (Fencing Reference ASTM F2049)		X X	3 3	Consider a fence between playground and parking lot
5. Shaded area is provided. (CPSC 2.1.1)		X X	4 4	Shade recommended
6. Play area is visible to deter inappropriate behavior. (CPSC 2.2.4)	X X			
7. Equipment not recommended on public playgrounds include... climbing ropes not secured at both ends, trampolines, swinging gates, giant strides, heavy metal swings (animal swings), rope swings, swinging dual exercise rings and trapeze bars. (CPSC 2.3.1)	X X			
8. Playground is accessed safely by a sidewalk that is free of standing water, pea gravel, and low branches and complies with the DOJ 2010 Standard for Accessible Design (min. 80" overhead clearance, 60" min. width, max. cross slope of 1:50 and max. running slope of 1:20, max. gaps of 1/2" and no vertical rise greater than 1/4" without a beveled edge, and finally there should be no depressions greater than 1/2").		X X	3 3	Playground is accessed via surface asphalt from building. Playground surfacing is not compliant however, and is recommended to be replaced by Engineered Wood Fiber, or other accessible surface.
9. Seating (benches, tables) is in good condition (free of splinters, missing hardware/slats, sharp edges, etc). (exempt from ASTM F1487)	X X			
10. Signs on all bordering streets advise motorists that a playground is nearby.	X X			
11. Trash receptacles are provided and located outside of play area use zone.		X X	4 4	Trash receptacles recommended

Materials and Manufacture

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Playground equipment is manufactured and constructed only of materials that have a demonstrated durability and comply with the Consumer Product Safety Improvement Act of 2008. (ASTM 4.1.2; CPSC 2.5.1)	X X			
2. Metals subject to structural degradation such as rust or corrosion are painted, galvanized or otherwise treated. (ASTM 4.1.1; CPSC 2.5.1)		X X	2 2	Certain structures have flaking paint and visible rust. Some rust has compromised the structural integrity of the metal and could fail.
3. Wood materials are naturally rot-resistant or treated to avoid deterioration. (ASTM 4.1.3; CPSC 2.5.5)	N N/AA			
4. Plastics and other materials that experience ultraviolet (UV) degradation are UV protected. (ASTM 4.1.1)	X X			
5. Users cannot ingest, inhale, or absorb any potentially hazardous amounts of substances through body surfaces as a result of contact with the equipment. (ASTM 4.1.2 and 4.1.3; CPSC 2.5.4)	X X			
6. Moving suspended elements are connected to the fixed support w/ bearings or bearing surfaces that serve to reduce friction and wear. (ASTM 4.2.3; CPSC 2.5.2)	X X			
7. Steel cable permanently affixed to a hanger assembly performs as a bearing surface. Cable ends are inaccessible or capped. Cables or steel-cored ropes are protected to prevent fraying, loosening, unraveling, or excessive shifting. (ASTM 4.2.3.1)	X X			
8. Creosote-treated wood and coatings that contain pesticides are not used. (ASTM 4.1.3; CPSC 2.5.5)	N N/AA			
9. CCA-treated wood is not used, or is regularly coated (min. once/year) w/ a penetrating sealant or stain. (CPSC 2.5.5.1)	N N/AA			
10. Play structures are anchored to the ground and not intended to be relocated. (ASTM 5.3)	X X			

Use Zones

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
A. Stationary Equipment				
1. Use zone extends min. 72" on all sides of structure. Equipment intended for user to maintain contact w/ the ground during play (i.e. talk tubes, activity panels) is exempt from use zone requirements. (ASTM 9.2.1; CPSC 5.3.9)		X	2	Truck climber does not have compliant use zone and should be removed.
2. Use zones for 2 or more stationary structures that are play-functionally linked are treated as if separate components are part of a composite unit. (ASTM 9.2.2; CPSC 5.3.9)	N/A			
3. Use zones of stationary equipment and other equipment may overlap. If adjacent designated play surfaces of each structure are < 30", the min. distance between equipment is 72". If adjacent designated play surfaces of either structure are > 30", the min. distance between equipment is 108". (ASTM 9.2.3; CPSC 5.3.10)	N/A			
B. Rotating Equipment				
1. Minimum use zone for rotating eqpt is 72" from perimeter. No other structure may overlap this use zone. Rotating eqpt < 20" diameter are exempt and may be 72" apart when each have designated play surfaces < 30" high, or 108" apart when one or both have designated play surfaces > 30" high. (ASTM 9.3.2; CPSC 5.3.4.1)	N/A			
2. Single user equipment (i.e. sand diggers) where user maintains contact w/ the ground are exempt from use zone requirements. (ASTM 9.2.1)	N/A			
3. No other structure overlaps the use zone of eqpt that rotates around a horizontal axis w/ a designated play surface > 30". (ASTM 9.3.5)	N/A			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
C. To-Fro Swings				
1. Use zone to front and rear of to-fro swing is 2X where X = distance between pivot point and surfacing by width of beam. (ASTM 9.4.1.1; CPSC 5.3.8.3.3) Combination Swing Use Zone should be composed of the individual use zones as defined in 9.4.1 and 9.4.2 or both for the individual suspended elements. (ASTM 9.4.3)		X	3	Surfacing should be full depth to front and rear and 6' on each end. Recommend updating surfacing.
2. For swings w/ fully enclosed To-Fro swing seats, use zone is 2W where W = distance between pivot point and top of occupied sitting surface. (ASTM 9.4.1.2; CPSC 5.3.8.3.3)	N/A			
3. No other play structure overlaps the front-to-rear use zone of a to-fro swing. (ASTM 9.4.1.3; CPSC 5.3.8.3.3)	X			
4. Use zone width is at least as wide as the swing top beam. T-swings use zones have special conditions. (ASTM 9.4.1.4)	X			
5. Use zone around support structure is min. 72" in all directions from the structure. Support structure use zones for adjacent to-fro swings may overlap (6' apart). Support structure use zones may overlap w/ other equipment w/ min. 108" between structures. (ASTM 9.4.1.5; CPSC 5.3.8.3.3)		X	3	Surfacing should be full depth to front and rear and 6' on each end. Recommend updating surfacing.
D. Rotating Swings				
1. Use zone is min. horizontal distance of Y+72", where Y = vertical distance between pivot point and top of swing seat. (ASTM 9.4.2.1; CPSC 5.3.8.4.1)	N/A			
2. No other play structure use zone overlaps rotating swing use zone. (ASTM 9.4.2.2; CPSC 5.3.8.4.1)	N/A			
3. Use zone around support structure is min.72" in all directions from the structure. (ASTM 9.4.2.3; CPSC 5.3.8.4.1)	N/A			
4. Support structures of adjacent rotating swings may overlap (6' apart), however, swing bay clearances (Y+30") are not overlapped. (ASTM 9.4.2.4; CPSC 5.3.8.4.1)	N/A			
5. Support structure use zone may overlap use zone of other equipment w/ min. 108" between structures. (ASTM 9.4.2.5; CPSC 5.3.9)	N/A			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
E. Rocking/Springing Equipment				
1. Use zone for equipment intended for sitting is min. 72" in all directions from at-rest perimeter. (ASTM 9.5.1.1; CPSC 5.3.7)	X			
2. Use zone of adjacent eqpt may overlap when each structure has max. seat height and/or designated playing surface of less than or equal to 30". (ASTM 9.5.1.2; CPSC 5.3.7)	X			
3. Use zone of rocking/springing eqpt may overlap to 72" apart when each structure has max. designated play surface height < 30"; and to 108" apart when either has a designated play surface higher than 30" unless otherwise specified in ASTM Section 9. (ASTM 9.5.1.3; CPSC 5.3.7)	X			
4. Use zone for rocking/springing eqpt intended for standing is min. 84" in all directions from the at-rest perimeter. (ASTM 9.5.2.1)	N/A			
5. No other play structure use zone overlaps the standing rocking/springing structure use zone. (ASTM 9.5.2.2)	X			
6. Equipment w/ limited movement or eqpt on which user cannot develop enough force to launch or propel themselves away from the eqpt is exempt from these requirements. (ASTM 9.5.2.3)	X			
F. Slides				
1. Use zone around steps or ladder, chute, platform or slide bed of straight, wavy, or spiral slides is min. 72" from perimeter. (ASTM 9.6.1; CPSC 5.3.6.5)	X			
2. Use zone at exit is min. X where X = vertical distance from highest point of sliding surface to surfacing. Use zone at slide exit is min. 72" and need not be > 96". (ASTM 9.6.2, 9.6.2.1; CPSC 5.3.6.5)	X			
3. A clear zone, free of equipment, extends min. 21" from inside of each side wall from the end of the slide to the perimeter of the slide use zone. Clearance zones for two or more parallel slide beds may overlap. Clearance zones for converging slides may not overlap. (ASTM 8.5.6, 9.6.3)	X			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
G. Track Rides				
1. Track ride use zones are min. 72" in all directions from equipment. (ASTM 9.9.1)	N/A			
H. Composite Structures				
1. Use zone is min. 72" from structure perimeter, and complies w/ use zones established for individual types of eqpt. (ASTM 9.7.1 and 9.7.2; CPSC 5.3.9)	X			
2. Professional judgment may be used to eliminate hazards created by circulation conflicts or adjacent structures that are in close proximity. (ASTM 9.7.2)	X			
I. Placement of Equipment				
1. Sufficient space is provided between all adjacent structures and individual play eqpt for the purposes of play and circulation. (ASTM 9.8; CPSC 2.2.4)	X			
2. In settings where periodic overcrowding is likely, a supplemental circulation area beyond the use zone is provided, using professional judgement of owner/operator. (ASTM 9.8.2 and CPSC 2.2.4)	X			
3. Moving equipment such as swings and rotating equipment are located near the periphery away from circulation routes. (ASTM 9.8.3; CPSC 2.2.4)	X			
4. Overhead obstructions within play structure usezones are min. 84" from each designated play surface, the use zone, or the pivot point of swings. (ASTM 9.8.4.1)	X			
5. Overhead utility line clearances comply w/ all local, state, and national codes such as National Electrical Safety Code. (ASTM 9.8.4.2)	X			

Maintenance, Surfacing, Labeling, Signage

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
A. Maintenance				
1. Owner/Operator maintains detailed installation, inspection, maintenance, and repair records for each playground area. (ASTM 13.3; CPSC 4)		X	5	Recommend retaining records in future.
B. Protective Surfacing				
1. Owner/Operator maintains the protective surfacing within the use zone of each play structure in accordance w/ ASTM F1292 w/ a critical height appropriate for the fall height of each structure, and ASTM F1951 where applicable (ASTM 13.2.1; CPSC 2.4) and the Accessible Route in accordance w/ DOJ 2010 Standard (Section 1008.2.6)		X	3	Surfacing depth is less than recommended and is also not an accessible surface. Recommend replacement by Engineered Wood Fiber, or other accessible surface, to depth per manufacturer.
2. Protective surfacing is maintained free from extraneous materials that could cause injury, infection, or disease. (ASTM 13.2.2; CPSC 4)	X			
3. Surfacing is well-drained and free of standing water. (ASTM 13.2.2; CPSC 2.4.2.2)	X			
4. Written documentation available of laboratory compliance testing ASTM F1292 and F1951 and F2075 for EWF. (ASTM 13.2, 13.3)		X	5	Recommend retaining records after surfacing replacement.
5. Written documentation available of post installation compliance to the appropriate ASTM Standards. (ASTM 13.3)		X	5	Recommend retaining records after surfacing replacement.
C. Labeling				
1. On or near all play structures where applicable have posted a warning label containing... 1) signal word WARNING , 2) safety alert symbol (triangle w/ exclamation point inside) preceding signal word, and 3) warning message "Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls." (ASTM 14.2.5)		X	5	Recommend installing labels.
2. Manufacturer's identification appears, is durable, and is placed on the play structure. (ASTM 15)	X			
D. Information Signage				
1. Signs or labels provide information for age appropriateness of playground. (ASTM 14.2.1)		X	5	Recommend installing labels.
2. Signs or labels provide information stating adult supervision is recommended. (ASTM 14.2.2)		X	5	Recommend installing labels.
3. Sign posted to communicate warning for the need to remove helmets, drawstrings and items around the neck due to strangulation. (ASTM 14.2.3)		X	5	Recommend installing labels.
4. Sign posted to communicate warning about hot play surfaces and surfacing can cause severe burns to young children. (ASTM 14.2.4; CPSC 2.2.6, 2.5.3, 3.2.1)		X	5	Recommend installing labels.
5. Freestanding signs are located outside the equipment use zone to alert the user of the concern in time to take action. (ASTM 14.1.1.2, 14.1.2, 14.1.3)		X	5	Recommend installing signs.

Accessibility

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Outside the play area the Accessible Route (AR) has max. running slope of 1:20 and max. cross slope of 1:50 and a minimum of 60" wide w/ max. abrupt vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp 1:12 max. (DOJ 2010 Standard Sec. 303)	X			
2. Inside the play area the AR is at least 60" wide (W), has max. cross-slope of 1:48, and 80" overhead clearance with max. running slope no steeper than (1:16 within) (DOJ 2010 Standard Sec. 1008.2.5.1) Play areas < 1,000 sq ft may have 44" W AR to play area. When 44" AR is > 30' it must have at least one 60" diameter turning space. (DOJ 2010 Standard Sec. 1008.2.4.1)		X	3	There is space in the play area for an accessible route, however playground surfacing is not compliant. Recommend replacement by Engineered Wood Fiber, or other accessible surface, to depth per manufacturer.
3. Elevated ramps are 36" min. w/ a max. run of 144" and running slope less than or equal to 1:12 (ASTM 7.2.4)	N/A			
4. Landings have min. 60" diameter at top and bottom of each run when there is a change in direction otherwise it must be equal to width of ramp. Landings w/ play elements have 30x48" wheelchair parking area w/out reducing adjacent circulation path to < 36". (ASTM 7.2.5 and DOJ 2010 Standard Sec. 405 and 406)	N/A			
5. Ramps with 2 rails or no rails, barriers beyond the ramp edge, or barriers not extending to w/in 1" of ramp surface must have curb ≥ 2" above the ramp. (ASTM 7.5.5.5 and .6)	N/A			
6. Ramps > 30" H (for 2-5 yrs) or > 48" H (for 5-12 yrs) have barriers. (ASTM 7.5.6.1 and .2)	N/A			
7. Ramps have handrails (0.95" to 1.55") on both sides at height (H) between 26"-28". (ASTM 7.5.5.5 and DOJ 2010 Standard Sec. 1008.2.5.3.1 and .2)	N/A			
8. Transfer point H is between 11-18" w/ clear min. 24" W x 14" D. Transfer steps are max. 8" H w/ handholds to assist with transfer. (DOJ 2010 Standard Sec. 1008.3.1.1 and .2)	X			
9. Transfer Point has min. clear space of 60" dia. turning area at base and may overlap parking space but the 48" parking space length (L) dimension must be centered parallel to the 24" W of the transfer platform. (DOJ 2010 Standard Sec. 1008.3.1.3 Transfer Space and ASTM 7.5.4)	X			
10. Play area use zone has accessible safety surfacing to all accessible play components. (ASTM 7.1.1) and compliant w/ DOJ 2010 Standard Sec. 1008.2.6 Ground Surfaces)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.

Accessibility (continued)

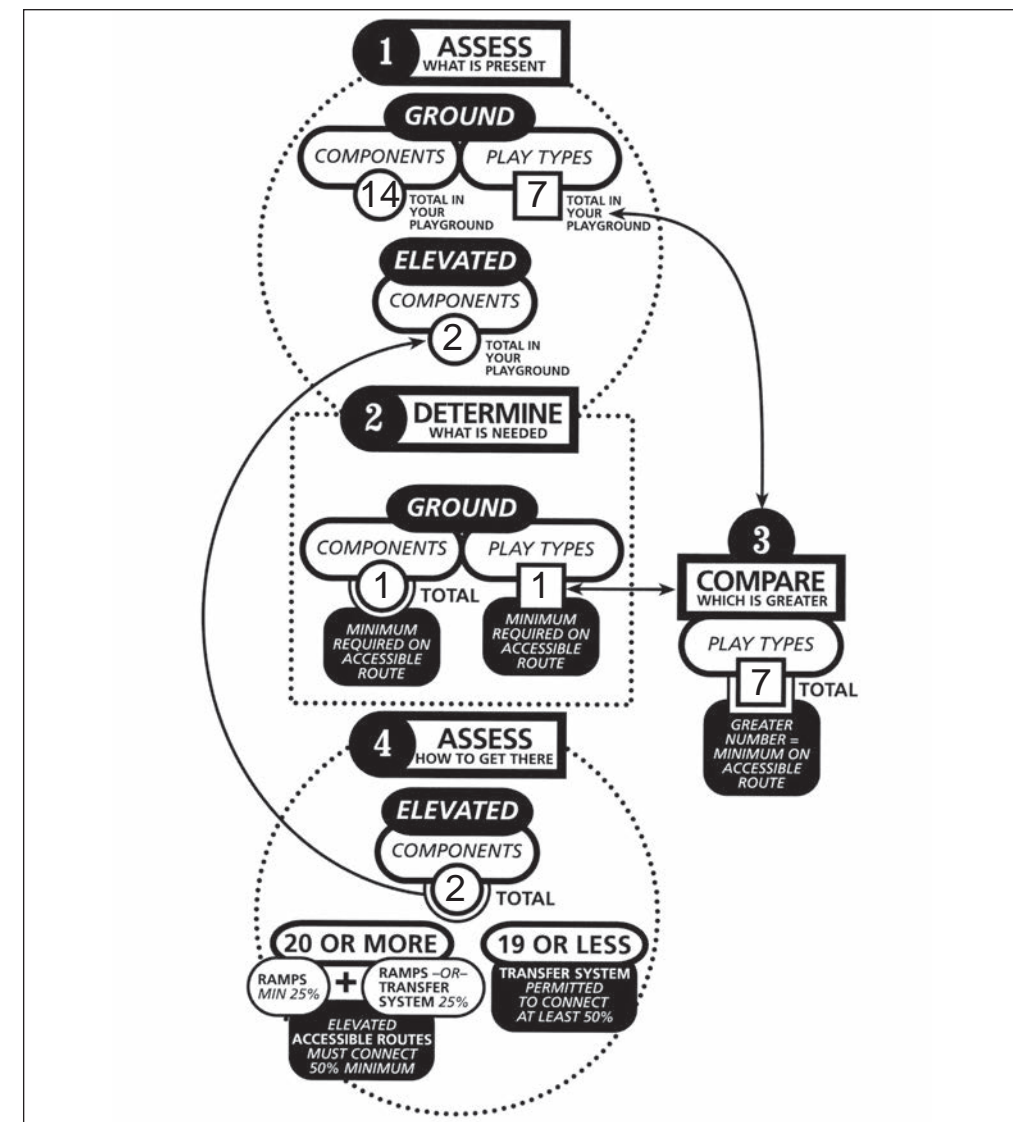
General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
11. Accessible restroom facilities, seating, drinking fountain, and shade are located in or near the play area and on the AR. (DOJ 2010 Standard Sec. 206 Accessible Routes, 206.2.17 Within a Site and Chapter 4)	X			
12. Openings on elevated wheelchair accessible access/egress points are < 15". (ASTM 7.5.6.3 (1-4) (Step Platforms, Ramps, and Upper Body and Accessible Access/Egress Components exempt.) (ASTM 7.5.5.2(3))	N/A			
13. Accessible Ramps and Platforms have - Max. Horizontal openings 0.5" sphere, Max. vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp 1:12 max. (DOJ 2010 Standard Sec. 302.2 and .3)	N/A			
14. Elevated accessible play opportunities designed w/ different access/egress points, such as slides, allow user to return unassisted to original transfer point. (DOJ 2010 Standard - Advisory Section 1008.3)	X			
15. Vertical Knee clearance is min. 24"H, 17"D, 30"W and 31"H max top of playing surface. (DOJ 2010 Standard - Section 1008.4.3 Play Tables)	N/A			
16. Accessible upper body eqpt, such as horizontal ladders and rings, are < 54" H. (ASTM 8.3.3)	N/A			
17. Accessible manipulative play eqpt, such as panels, are between 20-36" H for 2-5 year olds and 18-44" H for 5-12 year olds. (DOJ 2010 Standard - Section 1008.4)	X			
Refer to Accessibility Flow Chart for Questions 18 and 19 DOJ 2010 Standard Section 240.2 Play Components				
18. A. Where ground level components are provided at least one of each type shall be on AR. (DOJ 2010 Standard Sec. 240.2.1.1)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.
B. Meet minimum # Ground Level Play Components and Play Types on AR. (DOJ 2010 Standard Sec. 240.2.1.2)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.
19. Elevated AR connects minimum 50% Elevated Play Components by Ramp or Transfer. NOTE: 20 or more Elevated Play Components require minimum of 25% connected by Ramp. If 50% or more elevated play components are accessible by ramp they must be at least 3 different types. (DOJ 2010 Standard Sec. 240.2.1.2)	N/A			
20. All access points along AR conform to DOJ 2010 Standard Section 206.2.17, and Play Areas Section 240; Chapter 4, 402/403 Accessible Routes minimum 1:20 running slope requirements at transition points w/ side slope transition of 1:48.		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.

Use Flow Chart for Accessibility Section Questions 18 and 19

Table 240.2.1.2

Number and Types of Ground Level Play Components Required to be on Accessible Routes

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
1	Not applicable	Not applicable
2 to 4	1	1
5 to 7	2	2
8 to 10	3	3
11 to 13	4	3
14 to 16	5	3
17 to 19	6	3
20 to 22	7	4
23 to 25	8	4
26 and over	8, plus 1 for each additional 3, or fraction thereof, over 25	5



Access and Egress

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Steps/rungs are evenly spaced w/in ± .25" and horizontal w/in ± 2°. (ASTM 7.2.1)	X			
2. Steps do not allow accumulation of water or debris. (ASTM 7.2.2; CPSC 5.2.1)	X			
3. Stairways, step/rung ladders conform w/ access slope; tread, rung, ramp width; tread depth; rung diameter; and vertical rise for intended user group per ASTM Table 2. (ASTM 7.2.3; CPSC 5.2.1)	X			
4. Ramps intended for access have a max. horizontal run of 144". (ASTM 7.2.4)	N/A			
5. Landings w/ play components include wheelchair parking space w/ an adjacent circulation path ≥ 36". (ASTM 7.2.5)	X			
6. Continuous handrails are provided on both sides of stairs w/ > 1 tread; stairs w/ 1 tread have handrail or alternate means of support; Handrail height between 22-38" beginning at 1st step. (ASTM 7.2.6; CPSC 5.2.3)	X			
7. Handrails have diameter between .95-1.55". (ASTM 7.2.6.4; CPSC 5.2.2)	X			
8. Arch and flexible climbers not sole means of access for users 2-5. (ASTM 7.3.2.1; CPSC 5.2.1, 5.3.2.2, Table 5)	X			
9. Climbers used as access provide a means of hand support for use while climbing. (ASTM 7.3.2.5; CPSC 5.2.2)	X			
10. Stairways and stepladders have continuous handrails from access to platform. (ASTM 7.4.1; CPSC 5.2.3)	X			
11. Accesses w/o handrails (rung ladders, arch climbers, flexible components, etc.) have alternate hand gripping component to facilitate this transition to platform. (ASTM 7.4.2; CPSC 5.2.4)	X			
12. Stepping surface for final access on rung ladders, arch climbers, and flexible components are not connected above the designated play surface they serve. (ASTM 7.4.3; CPSC 5.2.1)	X			

Access and Egress (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
13. Head Entrapment... All components pass entrapment and partially-bounded opening tests. Partially bounded openings < 24" H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))	X			
14. Sharp Points and Edges... Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)	X			
15. Protrusions... All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)	X			
16. Entanglements... No protrusions project upwards > 1/8" from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8" in width and 1/8" in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)	X			
17. Entanglements... All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04"; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1) Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)	X			
18. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)	X			
19. Hardware/General Concerns				
Fasteners are corrosion-resistant or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts and bolts are self-locking or have a means to prevent detachment. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)		X	4	Fastener is broken, another fastener is loose, recommend replacement.
Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)	N/A			
Equipment is free of rust/chipping paint. (CPSC 2.5.4)		X	4	Stairs are rusting, recommend replacement.
Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)	X			


Platforms, Landings, and Walkways

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Platforms are horizontal w/in a tolerance of ± 2°. (ASTM 7.5.1; CPSC 5.1.1)	X			
2. Platforms, landings, walkways, and ramps do not trap water and accumulate debris. (ASTM 7.5.2; CPSC 5.1.1)	X			
3. Platforms, landings, walkways, and ramps, and other elevated surfaces that are accessible to wheelchairs provide a min. 36" clear width; clear width may be reduced to 32" for max. 24". (ASTM 7.5.3)	X			
4. Turning and parking spaces provided at a transfer point do not overlap. (ASTM 7.5.4)	N/A			
5. Guardrails contain no designated play surfaces. (ASTM 7.5.5)	X			
6. Guardrails are present on elevated surfaces > 20" when intended for 2-5, and > 30" when intended for 5-12. (ASTM 7.5.5.1; CPSC 5.1.3)	X			
7. Guardrails surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15". (ASTM 7.5.5.2; CPSC 5.1.3)	X			
8. Top surface of guardrails min. 29" when intended for 2-5, and 38" when intended for 5-12. (ASTM 7.5.5.3; CPSC 5.1.3)	X			
9. Lower edge of guardrails max. 23" when intended for 2-5, and 28" when intended for 5-12. (ASTM 7.5.5.4; CPSC 5.1.3)	X			
10. Wheelchair accessible ramps requiring guardrails for either 2-5 or 5-12 year olds have one handrail on both sides between 20-28" H. (DOJ 2010 Standard Section 1008.2.5)	N/A			
11. Wheelchair accessible ramps have 2" curb at both edges, unless guardrails and barriers don't extend to w/in 1" of ramp surface, or ramp has 2 rails and no barrier, or if barrier is beyond edge of ramp surface. (ASTM 7.5.5.6)	N/A			
12. Barriers contain no designated surface and minimize climbing. (ASTM 7.5.6; CPSC 5.1.3)	X			

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
13. Barriers provided on elevated surfaces > 30" when intended for 2-5, and > 48" when intended for 5-12. (ASTM 7.5.6.1)	X			
14. Wheelchair accessible ramps that require barriers have one handrail on both sides between 20-28" H. (DOJ 2010 Standard Section 1008.2.5)	N/A			
15. Barriers surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15". (ASTM 7.5.6.3)	X			
16. Top surface of barrier is 29" min. when intended for 2-5, and 38" max. when intended for 5-12. (ASTM 7.5.6.4)	X			
17. Adjacent platforms w/ height difference > 12" when intended for 2-5 or > 18" when intended for 5-12 have an access component. (ASTM 7.5.7.1)	X			
18. Head Entrapment... All components pass entrapment and partially-bounded opening tests. Partially bounded openings < 24" H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))	X			
19. Sharp Points and Edges... Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)	X			
20. Protrusions... All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)	X			
21. Entanglements... No protrusions project upwards > 1/8" from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8" in width and 1/8" in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)	X			
22. Entanglements... All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04"; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1) Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)	X			
23. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)	X			

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
24. Hardware/General Concerns				
Fasteners are corrosion-resistant or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts and bolts are self-locking or have a means to prevent detachment. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)	X			
Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)	X			
Equipment is free of rust/chipping paint. (CPSC 2.5.4)	X			
Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)	X			

Playground Safety Compliance Audit Form

Inspector (print) Meghan Talarowski Signature  CPSI # 32886-1118
 Date 10/26/18 Time 10:30am Weather Sunny, 35 degrees
 Playground Name and/or Identification Number Mt. Nittany Elementary School

Injuries to children may occur from many types of playground equipment and environmental conditions. The checklist on the following pages will help you to assess and correct safety concerns that may be present on or near your playground. While it does not cover every potential safety concern in a children's environment, it is an overview of most known playground safety concerns. The checklist does not apply to home playground equipment, amusement park equipment, or to equipment normally intended for sports use. The checklist also does not address the many important issues of child development that pertain to play.

The playground safety compliance audit form is not a regulatory standard, but a compilation of suggested guidelines based upon the *Public Playground Safety Handbook* written by the U.S. Consumer Product Safety Commission (CPSC)¹ Revised November 2010; American Society for Testing and Materials (ASTM)² F1487-11 Standard; Department of Justice 2010 ADA Standards for Accessible Design (2010 Standards) for Title II (28 CFR Part 35) and Title III (28 CFR Part 36), Sections 240 and 1008 Play Areas³ (These accessibility standards published in the Federal Register on September 15, 2010 can be found at: <http://www.ada.gov/regs2010/2010ADASTandards/2010ADAstandards.htm>) and expert opinions from individuals with a vast amount of experience in the field of playground safety.

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- Created from the "Statewide Comprehensive Injury Prevention Program" (SCIPP), Department of Public Health, 150 Trecost Street, Boston, MA 02111
- Adapted as Wheaton Park District's "Initial Playground Safety Audit" September, 1989, Revised December 20, 1990 and November, 1991, Ken Kutska, CPRP
- Edited and updated June, 1992, by Ken Kutska, CPRP, and Kevin Hoffman, ARM, Park District Risk Management Agency
- Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Edited and updated March, 2003, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Excel™ formatted 2004, revised citations to 2008 CPSC *Handbook* and ASTM F1487-07ae¹ Standard, August, 2008, by Steve Plumb, CPRP, CPSI
- Revised September 2008 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director
- Revised August 2011 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director

1. U.S. Consumer Product Safety Commission, (CPSC), 4330 East West Highway, Bethesda, MD 20814
 2. American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428
 3. U.S. Access Board, 1331 F Street, NW, Suite 1000, Washington, DC, 20004
 (<http://www.ada.gov/regs2010/ADAREgs2010.htm>)

Playground Safety Audit Forms

Background Information

IMPORTANT: This information has been prepared to assist the agency's attorney in defending potential litigation. Do not release to any person except an agency official, insurance representative, or an investigating police officer.

Play Area: Mt. Nittany Elementary School Date: 10/26/18
 Eqpt Type: Composite Structure, Swings, Climbers, Slide, Spinner Surface: Wood Mulch
 Audited By: Meghan Talarowski Intended User Age: 5-12

General Environment

1. Category of Playground: (check all that apply)
 Community Park Public School Childcare Center
 Neighborhood Park/Tot Lot Private School Other: _____

2. Equipment Inventory: (indicate the number of equipment pieces that exist)

A. Composite Structures	B. Freestanding Eqpt	C. Site Amenities
stairways/step ladders <u>1</u>	swings (to-fro) <u>5</u>	benches <u>1</u>
stairways/step ladders _____	rotating swings _____	tables <u>3</u>
rigid climbers <u>2</u>	seesaws <u>1</u>	water fountains _____
flexible climbers _____	slides <u>1</u>	bicycle racks _____
decks/platforms <u>3</u>	rigid climbers <u>2</u>	wheelchair parking _____
play panels _____	flexible climbers _____	signs (safety) _____
slides <u>2</u>	upper body eqpt _____	litter barrels _____
sliding poles _____	rocking eqpt _____	fencing _____
horizontal ladders _____	merry-go-round <u>1</u>	accessible route to play area _____
horizontal rings _____	spinner (< 20" D) <u>2</u>	other _____
track rides _____	sand play area _____	other _____
crawl tunnels _____	backhoe digger _____	other _____
clatter/other bridges _____	play panels _____	other _____
ramps _____	stepping pods _____	
transfer stations _____	net climber _____	Balance beam _____
roofs _____	other _____	
other _____	other _____	
other _____	other _____	

General Environment (continued)

3. Playground Perimeter Concerns

Directions: Check all potential concerns that exist, and indicate the actual distance item is from play area border. The owner/operator shall evaluate each border concern for possible mitigation.

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Playground Perimeter Concerns	Distance from Border	Priority Rating	Comments
1st public street	>100'		
2nd public street	>100'		
3rd public street			
4th public street			
streets with heavy traffic			
water (ponds/streams/ditch)			
soccer/football field			
baseball/softball field (home plate)			
basketball court	25'		
parking lot	25'		Recommend fencing between play area and parking lot
railroad tracks			
trees (not pruned up at least 84" within playground area)			
golf course			
quarry pit (cliff-like condition)			
contaminated area/landfill			
other (specify)			
other (specify)			
other (specify)			

General Environment (continued)

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General Environment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
4. If needed, fence is provided for perimeter concerns. See Pg 2 for list of concerns. (CPSC 2.1) (Fencing Reference ASTM F2049)		X X	3 3	Recommend fencing between play area and parking lot
5. Shaded area is provided. (CPSC 2.1.1)		X X	4 4	Shade recommended
6. Play area is visible to deter inappropriate behavior. (CPSC 2.2.4)	X X			
7. Equipment not recommended on public playgrounds include... climbing ropes not secured at both ends, trampolines, swinging gates, giant strides, heavy metal swings (animal swings), rope swings, swinging dual exercise rings and trapeze bars. (CPSC 2.3.1)	X X			
8. Playground is accessed safely by a sidewalk that is free of standing water, pea gravel, and low branches and complies with the DOJ 2010 Standard for Accessible Design (min. 80" overhead clearance, 60" min. width, max. cross slope of 1:50 and max. running slope of 1:20, max. gaps of 1/2" and no vertical rise greater than 1/4" without a beveled edge, and finally there should be no depressions greater than 1/2").		X X	3 3	Playground is accessed via surface asphalt from building. Playground surfacing is not compliant however, and is recommended to be replaced by Engineered Wood Fiber, or other accessible surface. Infill around play features to provide accessibility to all.
9. Seating (benches, tables) is in good condition (free of splinters, missing hardware/slats, sharp edges, etc). (exempt from ASTM F1487)	NN/AA			
10. Signs on all bordering streets advise motorists that a playground is nearby.	X X			
11. Trash receptacles are provided and located outside of play area use zone.		X X	4 4	Trash receptacles recommended

Materials and Manufacture

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General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Playground equipment is manufactured and constructed only of materials that have a demonstrated durability and comply with the Consumer Product Safety Improvement Act of 2008. (ASTM 4.1.2; CPSC 2.5.1)	X X			
2. Metals subject to structural degradation such as rust or corrosion are painted, galvanized or otherwise treated. (ASTM 4.1.1; CPSC 2.5.1)		X X	2 2	Certain structures have flaking paint and visible rust. Some rust has compromised the structural integrity of the metal and could fail.
3. Wood materials are naturally rot-resistant or treated to avoid deterioration. (ASTM 4.1.3; CPSC 2.5.5)		X X	3 3	Sand box wood is degraded and should be replaced.
4. Plastics and other materials that experience ultraviolet (UV) degradation are UV protected. (ASTM 4.1.1)	X X			
5. Users cannot ingest, inhale, or absorb any potentially hazardous amounts of substances through body surfaces as a result of contact with the equipment. (ASTM 4.1.2 and 4.1.3; CPSC 2.5.4)	X X			
6. Moving suspended elements are connected to the fixed support w/ bearings or bearing surfaces that serve to reduce friction and wear. (ASTM 4.2.3; CPSC 2.5.2)	X X			
7. Steel cable permanently affixed to a hanger assembly performs as a bearing surface. Cable ends are inaccessible or capped. Cables or steel-cored ropes are protected to prevent fraying, loosening, unraveling, or excessive shifting. (ASTM 4.2.3.1)	X X			
8. Creosote-treated wood and coatings that contain pesticides are not used. (ASTM 4.1.3; CPSC 2.5.5)		X X	3 3	Sand box wood is of unknown origin and could have pesticides.
9. CCA-treated wood is not used, or is regularly coated (min. once/year) w/ a penetrating sealant or stain. (CPSC 2.5.5.1)		X X	3 3	Sand box wood is of unknown origin and could have CCA.
10. Play structures are anchored to the ground and not intended to be relocated. (ASTM 5.3)	X X			

Use Zones

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General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
A. Stationary Equipment				
1. Use zone extends min. 72" on all sides of structure. Equipment intended for user to maintain contact w/ the ground during play (i.e. talk tubes, activity panels) is exempt from use zone requirements. (ASTM 9.2.1; CPSC 5.3.9)	X			
2. Use zones for 2 or more stationary structures that are play-functionally linked are treated as if separate components are part of a composite unit. (ASTM 9.2.2; CPSC 5.3.9)	N/A			
3. Use zones of stationary equipment and other equipment may overlap. If adjacent designated play surfaces of each structure are < 30", the min. distance between equipment is 72". If adjacent designated play surfaces of either structure are > 30", the min. distance between equipment is 108". (ASTM 9.2.3; CPSC 5.3.10)	X			
B. Rotating Equipment				
1. Minimum use zone for rotating eqpt is 72" from perimeter. No other structure may overlap this use zone. Rotating eqpt < 20" diameter are exempt and may be 72" apart when each have designated play surfaces < 30" high, or 108" apart when one or both have designated play surfaces > 30" high. (ASTM 9.3.2; CPSC 5.3.4.1)	X			
2. Single user equipment (i.e. sand diggers) where user maintains contact w/ the ground are exempt from use zone requirements. (ASTM 9.2.1)	N/A			
3. No other structure overlaps the use zone of eqpt that rotates around a horizontal axis w/ a designated play surface > 30". (ASTM 9.3.5)	X			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
C. To-Fro Swings				
1. Use zone to front and rear of to-fro swing is 2X where X = distance between pivot point and surfacing by width of beam. (ASTM 9.4.1.1; CPSC 5.3.8.3.3) Combination Swing Use Zone should be composed of the individual use zones as defined in 9.4.1 and 9.4.2 or both for the individual suspended elements. (ASTM 9.4.3)		X	3	Surfacing should be full depth to front and rear and 6' on each end.
2. For swings w/ fully enclosed To-Fro swing seats, use zone is 2W where W = distance between pivot point and top of occupied sitting surface. (ASTM 9.4.1.2; CPSC 5.3.8.3.3)	N/A			
3. No other play structure overlaps the front-to-rear use zone of a to-fro swing. (ASTM 9.4.1.3; CPSC 5.3.8.3.3)	X			
4. Use zone width is at least as wide as the swing top beam. T-swings use zones have special conditions. (ASTM 9.4.1.4)	X			
5. Use zone around support structure is min. 72" in all directions from the structure. Support structure use zones for adjacent to-fro swings may overlap (6' apart). Support structure use zones may overlap w/ other equipment w/ min. 108" between structures. (ASTM 9.4.1.5; CPSC 5.3.8.3.3)		X	3	Surfacing should be full depth to front and rear and 6' on each end.
D. Rotating Swings				
1. Use zone is min. horizontal distance of Y+72", where Y = vertical distance between pivot point and top of swing seat. (ASTM 9.4.2.1; CPSC 5.3.8.4.1)	N/A			
2. No other play structure use zone overlaps rotating swing use zone. (ASTM 9.4.2.2; CPSC 5.3.8.4.1)	N/A			
3. Use zone around support structure is min.72" in all directions from the structure. (ASTM 9.4.2.3; CPSC 5.3.8.4.1)	N/A			
4. Support structures of adjacent rotating swings may overlap (6' apart), however, swing bay clearances (Y+30") are not overlapped. (ASTM 9.4.2.4; CPSC 5.3.8.4.1)	N/A			
5. Support structure use zone may overlap use zone of other equipment w/ min. 108" between structures. (ASTM 9.4.2.5; CPSC 5.3.9)	N/A			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
E. Rocking/Springing Equipment				
1. Use zone for equipment intended for sitting is min. 72" in all directions from at-rest perimeter. (ASTM 9.5.1.1; CPSC 5.3.7)	N/A			
2. Use zone of adjacent eqpt may overlap when each structure has max. seat height and/or designated playing surface of less than or equal to 30". (ASTM 9.5.1.2; CPSC 5.3.7)	N/A			
3. Use zone of rocking/springing eqpt may overlap to 72" apart when each structure has max. designated play surface height < 30"; and to 108" apart when either has a designated play surface higher than 30" unless otherwise specified in ASTM Section 9. (ASTM 9.5.1.3; CPSC 5.3.7)	N/A			
4. Use zone for rocking/springing eqpt intended for standing is min. 84" in all directions from the at-rest perimeter. (ASTM 9.5.2.1)	N/A			
5. No other play structure use zone overlaps the standing rocking/springing structure use zone. (ASTM 9.5.2.2)	N/A			
6. Equipment w/ limited movement or eqpt on which user cannot develop enough force to launch or propel themselves away from the eqpt is exempt from these requirements. (ASTM 9.5.2.3)	N/A			
F. Slides				
1. Use zone around steps or ladder, chute, platform or slide bed of straight, wavy, or spiral slides is min. 72" from perimeter. (ASTM 9.6.1; CPSC 5.3.6.5)	X			
2. Use zone at exit is min. X where X = vertical distance from highest point of sliding surface to surfacing. Use zone at slide exit is min. 72" and need not be > 96". (ASTM 9.6.2, 9.6.2.1; CPSC 5.3.6.5)	X			
3. A clear zone, free of equipment, extends min. 21" from inside of each side wall from the end of the slide to the perimeter of the slide use zone. Clearance zones for two or more parallel slide beds may overlap. Clearance zones for converging slides may not overlap. (ASTM 8.5.6, 9.6.3)	X			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
G. Track Rides				
1. Track ride use zones are min. 72" in all directions from equipment. (ASTM 9.9.1)	N/A			
H. Composite Structures				
1. Use zone is min. 72" from structure perimeter, and complies w/ use zones established for individual types of eqpt. (ASTM 9.7.1 and 9.7.2; CPSC 5.3.9)	X			
2. Professional judgment may be used to eliminate hazards created by circulation conflicts or adjacent structures that are in close proximity. (ASTM 9.7.2)	X			
I. Placement of Equipment				
1. Sufficient space is provided between all adjacent structures and individual play eqpt for the purposes of play and circulation. (ASTM 9.8; CPSC 2.2.4)	X			
2. In settings where periodic overcrowding is likely, a supplemental circulation area beyond the use zone is provided, using professional judgement of owner/operator. (ASTM 9.8.2 and CPSC 2.2.4)	X			
3. Moving equipment such as swings and rotating equipment are located near the periphery away from circulation routes. (ASTM 9.8.3; CPSC 2.2.4)	X			
4. Overhead obstructions within play structure usezones are min. 84" from each designated play surface, the use zone, or the pivot point of swings. (ASTM 9.8.4.1)	X			
5. Overhead utility line clearances comply w/ all local, state, and national codes such as National Electrical Safety Code. (ASTM 9.8.4.2)	X			

Maintenance, Surfacing, Labeling, Signage

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
A. Maintenance				
1. Owner/Operator maintains detailed installation, inspection, maintenance, and repair records for each playground area. (ASTM 13.3; CPSC 4)		X	5	Recommend retaining records in future.
B. Protective Surfacing				
1. Owner/Operator maintains the protective surfacing within the use zone of each play structure in accordance w/ ASTM F1292 w/ a critical height appropriate for the fall height of each structure, and ASTM F1951 where applicable (ASTM 13.2.1; CPSC 2.4) and the Accessible Route in accordance w/ DOJ 2010 Standard (Section 1008.2.6)		X	3	Surfacing depth is less than recommended and is also not an accessible surface. Recommend replacement by Engineered Wood Fiber, or other accessible surface, to depth per manufacturer.
2. Protective surfacing is maintained free from extraneous materials that could cause injury, infection, or disease. (ASTM 13.2.2; CPSC 4)	X			
3. Surfacing is well-drained and free of standing water. (ASTM 13.2.2; CPSC 2.4.2.2)	X			
4. Written documentation available of laboratory compliance testing ASTM F1292 and F1951 and F2075 for EWF. (ASTM 13.2, 13.3)		X	5	Recommend retaining records after surfacing replacement.
5. Written documentation available of post installation compliance to the appropriate ASTM Standards. (ASTM 13.3)		X	5	Recommend retaining records after surfacing replacement.
C. Labeling				
1. On or near all play structures where applicable have posted a warning label containing... 1) signal word WARNING , 2) safety alert symbol (triangle w/ exclamation point inside) preceding signal word, and 3) warning message "Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls." (ASTM 14.2.5)		X	5	Recommend installing labels.
2. Manufacturer's identification appears, is durable, and is placed on the play structure. (ASTM 15)	X			
D. Information Signage				
1. Signs or labels provide information for age appropriateness of playground. (ASTM 14.2.1)		X	5	Recommend installing labels.
2. Signs or labels provide information stating adult supervision is recommended. (ASTM 14.2.2)		X	5	Recommend installing labels.
3. Sign posted to communicate warning for the need to remove helmets, drawstrings and items around the neck due to strangulation. (ASTM 14.2.3)		X	5	Recommend installing labels.
4. Sign posted to communicate warning about hot play surfaces and surfacing can cause severe burns to young children. (ASTM 14.2.4; CPSC 2.2.6, 2.5.3, 3.2.1)		X	5	Recommend installing labels.
5. Freestanding signs are located outside the equipment use zone to alert the user of the concern in time to take action. (ASTM 14.1.1.2, 14.1.2, 14.1.3)		X	5	Recommend installing signs.

Accessibility

This form is provided so that owner/operators can evaluate appropriate accessibility requirements from the Department of Justice 2010 ADA Standards for Accessible Design (2010 Standards) for Title II (28 CFR Part 35) and Title III (28 CFR Part 36), Sections 240 and 1008 Play Areas. This Federal Law became enforceable in March of 2011. These items will not be found in ASTM or CPSC documents but the Law is referenced in both. This Section will assist in your assessment of compliance to the minimum requirements of this Standard.

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General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Outside the play area the Accessible Route (AR) has max. running slope of 1:20 and max. cross slope of 1:50 and a minimum of 60" wide w/ max. abrupt vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp 1:12 max. (DOJ 2010 Standard Sec. 303)	X			
2. Inside the play area the AR is at least 60" wide (W), has max. cross-slope of 1:48, and 80" overhead clearance with max. running slope no steeper than (1:16 within) (DOJ 2010 Standard Sec. 1008.2.5.1) Play areas < 1,000 sq ft may have 44" W AR to play area. When 44" AR is > 30' it must have at least one 60" diameter turning space. (DOJ 2010 Standard Sec. 1008.2.4.1)		X	3	There is space in the play area for an accessible route, however playground surfacing is not compliant. Recommend replacement by Engineered Wood Fiber, or other accessible surface, to depth per manufacturer.
3. Elevated ramps are 36" min. w/ a max. run of 144" and running slope less than or equal to 1:12 (ASTM 7.2.4)	N/A			
4. Landings have min. 60" diameter at top and bottom of each run when there is a change in direction otherwise it must be equal to width of ramp. Landings w/ play elements have 30x48" wheelchair parking area w/out reducing adjacent circulation path to < 36". (ASTM 7.2.5 and DOJ 2010 Standard Sec. 405 and 406)	N/A			
5. Ramps with 2 rails or no rails, barriers beyond the ramp edge, or barriers not extending to w/in 1" of ramp surface must have curb ≥ 2" above the ramp. (ASTM 7.5.5.5 and .6)	N/A			
6. Ramps > 30" H (for 2-5 yrs) or > 48" H (for 5-12 yrs) have barriers. (ASTM 7.5.6.1 and .2)	N/A			
7. Ramps have handrails (0.95" to 1.55") on both sides at height (H) between 26"-28". (ASTM 7.5.5.5 and DOJ 2010 Standard Sec. 1008.2.5.3.1 and .2)	N/A			
8. Transfer point H is between 11-18" w/ clear min. 24" W x 14" D. Transfer steps are max. 8" H w/ handholds to assist with transfer. (DOJ 2010 Standard Sec. 1008.3.1.1 and .2)	N/A			
9. Transfer Point has min. clear space of 60" dia. turning area at base and may overlap parking space but the 48" parking space length (L) dimension must be centered parallel to the 24" W of the transfer platform. (DOJ 2010 Standard Sec. 1008.3.1.3 Transfer Space and ASTM 7.5.4)	N/A			
10. Play area use zone has accessible safety surfacing to all accessible play components. (ASTM 7.1.1) and compliant w/ DOJ 2010 Standard Sec. 1008.2.6 Ground Surfaces)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.

Accessibility (continued)

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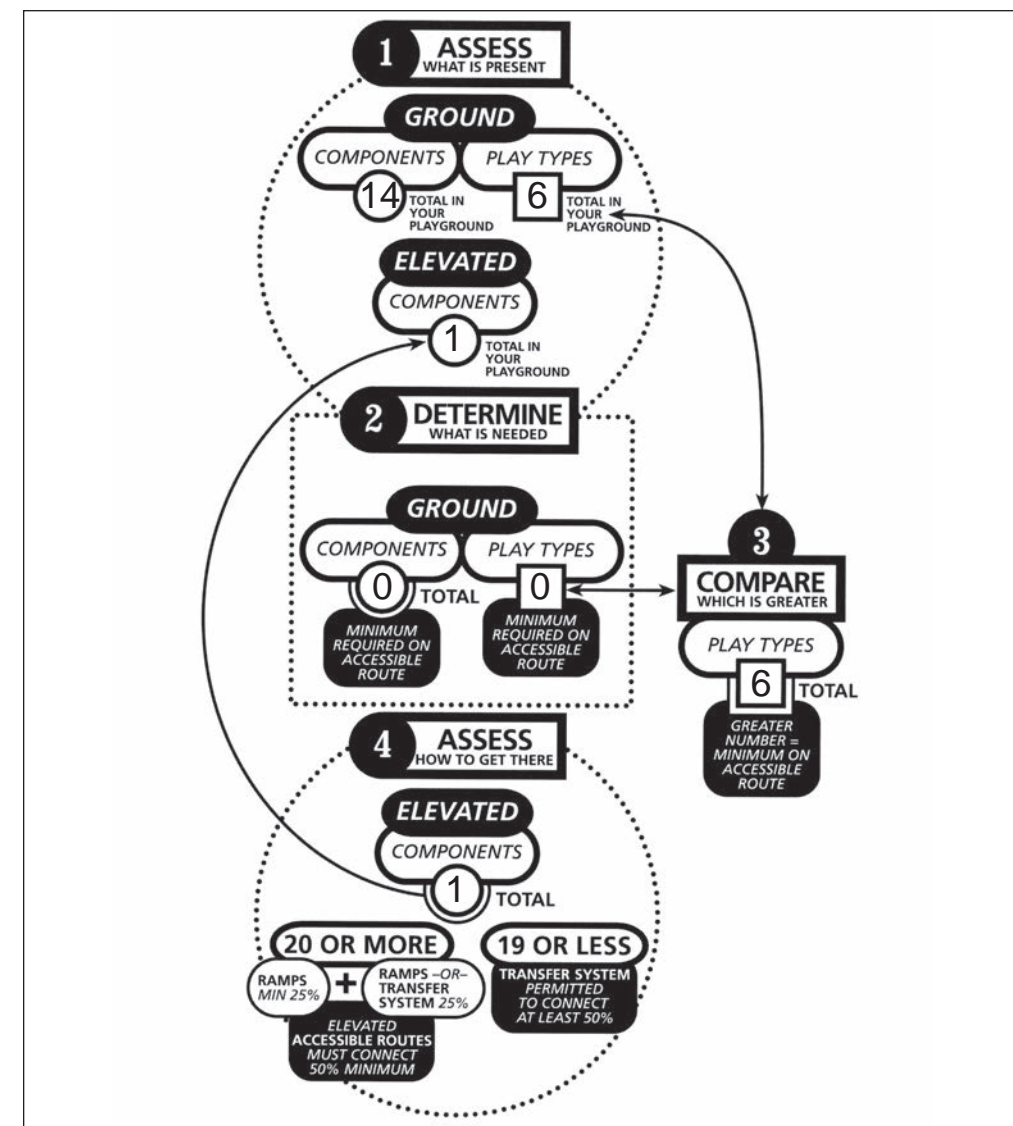
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General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
11. Accessible restroom facilities, seating, drinking fountain, and shade are located in or near the play area and on the AR. (DOJ 2010 Standard Sec. 206 Accessible Routes, 206.2.17 Within a Site and Chapter 4)	X			
12. Openings on elevated wheelchair accessible access/egress points are < 15". (ASTM 7.5.6.3 (1-4) (Step Platforms, Ramps, and Upper Body and Accessible Access/Egress Components exempt.) (ASTM 7.5.5.2(3))	N/A			
13. Accessible Ramps and Platforms have - Max. Horizontal openings 0.5" sphere, Max. vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp 1:12 max. (DOJ 2010 Standard Sec. 302.2 and .3)	N/A			
14. Elevated accessible play opportunities designed w/ different access/egress points, such as slides, allow user to return unassisted to original transfer point. (DOJ 2010 Standard - Advisory Section 1008.3)	X			
15. Vertical Knee clearance is min. 24"H, 17"D, 30"W and 31"H max top of playing surface. (DOJ 2010 Standard - Section 1008.4.3 Play Tables)	N/A			
16. Accessible upper body eqpt, such as horizontal ladders and rings, are < 54" H. (ASTM 8.3.3)	N/A			
17. Accessible manipulative play eqpt, such as panels, are between 20-36" H for 2-5 year olds and 18-44" H for 5-12 year olds. (DOJ 2010 Standard - Section 1008.4)	N/A			
Refer to Accessibility Flow Chart for Questions 18 and 19 DOJ 2010 Standard Section 240.2 Play Components				
18. A. Where ground level components are provided at least one of each type shall be on AR. (DOJ 2010 Standard Sec. 240.2.1.1)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.
B. Meet minimum # Ground Level Play Components and Play Types on AR. (DOJ 2010 Standard Sec. 240.2.1.2)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.
19. Elevated AR connects minimum 50% Elevated Play Components by Ramp or Transfer. NOTE: 20 or more Elevated Play Components require minimum of 25% connected by Ramp. If 50% or more elevated play components are accessible by ramp they must be at least 3 different types. (DOJ 2010 Standard Sec. 240.2.1.2)	N/A			
20. All access points along AR conform to DOJ 2010 Standard Section 206.2.17, and Play Areas Section 240; Chapter 4, 402/403 Accessible Routes minimum 1:20 running slope requirements at transition points w/ side slope transition of 1:48.		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.

Use Flow Chart for Accessibility Section Questions 18 and 19

Table 240.2.1.2
Number and Types of Ground Level Play Components Required to be on Accessible Routes

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
1	Not applicable	Not applicable
2 to 4	1	1
5 to 7	2	2
8 to 10	3	3
11 to 13	4	3
14 to 16	5	3
17 to 19	6	3
20 to 22	7	4
23 to 25	8	4
26 and over	8, plus 1 for each additional 3, or fraction thereof, over 25	5



Access and Egress

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General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Steps/runs are evenly spaced w/in ± .25" and horizontal w/in ± 2". (ASTM 7.2.1)	X			
2. Steps do not allow accumulation of water or debris. (ASTM 7.2.2; CPSC 5.2.1)	X			
3. Stairways, step/rung ladders conform w/ access slope; tread, rung, ramp width; tread depth; rung diameter; and vertical rise for intended user group per ASTM Table 2. (ASTM 7.2.3; CPSC 5.2.1)	X			
4. Ramps intended for access have a max. horizontal run of 144". (ASTM 7.2.4)	N/A			
5. Landings w/ play components include wheelchair parking space w/ an adjacent circulation path ≥ 36". (ASTM 7.2.5)	N/A			
6. Continuous handrails are provided on both sides of stairs w/ > 1 tread; stairs w/ 1 tread have handrail or alternate means of support; Handrail height between 22-38" beginning at 1st step. (ASTM 7.2.6; CPSC 5.2.3)	X			
7. Handrails have diameter between .95-1.55". (ASTM 7.2.6.4; CPSC 5.2.2)	X			
8. Arch and flexible climbers not sole means of access for users 2-5. (ASTM 7.3.2.1; CPSC 5.2.1, 5.3.2.2, Table 5)	X			
9. Climbers used as access provide a means of hand support for use while climbing. (ASTM 7.3.2.5; CPSC 5.2.2)	X			
10. Stairways and stepladders have continuous handrails from access to platform. (ASTM 7.4.1; CPSC 5.2.3)	X			
11. Accesses w/o handrails (rung ladders, arch climbers, flexible components, etc.) have alternate hand gripping component to facilitate this transition to platform. (ASTM 7.4.2; CPSC 5.2.4)	X			
12. Stepping surface for final access on rung ladders, arch climbers, and flexible components are not connected above the designated play surface they serve. (ASTM 7.4.3; CPSC 5.2.1)	X			

Access and Egress (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
13. Head Entrapment... All components pass entrapment and partially-bounded opening tests. Partially bounded openings < 24" H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))	X			
14. Sharp Points and Edges... Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)	X			
15. Protrusions... All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)		X	1	Several protrusions on composite structure. Must be repaired immediately.
16. Entanglements... No protrusions project upwards > 1/8" from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8" in width and 1/8" in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)	X			
17. Entanglements... All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04"; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1) Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)	X			
18. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)	X			
19. Hardware/General Concerns				
Fasteners are corrosion-resistant or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts and bolts are self-locking or have a means to prevent detachment. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)	X			
Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)	N/A			
Equipment is free of rust/chipping paint. (CPSC 2.5.4)		X	4	Multiple instances of rust. Recommend sand and repaint.
Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)	X			

Platforms, Landings, and Walkways

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Platforms are horizontal w/in a tolerance of ± 2°. (ASTM 7.5.1; CPSC 5.1.1)	X			
2. Platforms, landings, walkways, and ramps do not trap water and accumulate debris. (ASTM 7.5.2; CPSC 5.1.1)	X			
3. Platforms, landings, walkways, and ramps, and other elevated surfaces that are accessible to wheelchairs provide a min. 36" clear width; clear width may be reduced to 32" for max. 24". (ASTM 7.5.3)	X			
4. Turning and parking spaces provided at a transfer point do not overlap. (ASTM 7.5.4)	N/A			
5. Guardrails contain no designated play surfaces. (ASTM 7.5.5)	X			
6. Guardrails are present on elevated surfaces > 20" when intended for 2-5, and > 30" when intended for 5-12. (ASTM 7.5.5.1; CPSC 5.1.3)	X			
7. Guardrails surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15". (ASTM 7.5.5.2; CPSC 5.1.3)	X			
8. Top surface of guardrails min. 29" when intended for 2-5, and 38" when intended for 5-12. (ASTM 7.5.5.3; CPSC 5.1.3)	X			
9. Lower edge of guardrails max. 23" when intended for 2-5, and 28" when intended for 5-12. (ASTM 7.5.5.4; CPSC 5.1.3)	X			
10. Wheelchair accessible ramps requiring guardrails for either 2-5 or 5-12 year olds have one handrail on both sides between 20-28" H. (DOJ 2010 Standard Section 1008.2.5)	N/A			
11. Wheelchair accessible ramps have 2" curb at both edges, unless guardrails and barriers don't extend to w/in 1" of ramp surface, or ramp has 2 rails and no barrier, or if barrier is beyond edge of ramp surface. (ASTM 7.5.5.6)	N/A			
12. Barriers contain no designated surface and minimize climbing. (ASTM 7.5.6; CPSC 5.1.3)	X			

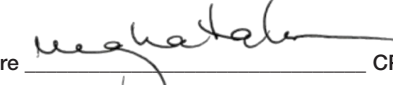
Platforms, Landings, and Walkways (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
13. Barriers provided on elevated surfaces > 30" when intended for 2-5, and > 48" when intended for 5-12. (ASTM 7.5.6.1)	X			
14. Wheelchair accessible ramps that require barriers have one handrail on both sides between 20-28" H. (DOJ 2010 Standard Section 1008.2.5)	N/A			
15. Barriers surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15". (ASTM 7.5.6.3)	X			
16. Top surface of barrier is 29" min. when intended for 2-5, and 38" max. when intended for 5-12. (ASTM 7.5.6.4)	X			
17. Adjacent platforms w/ height difference > 12" when intended for 2-5 or > 18" when intended for 5-12 have an access component. (ASTM 7.5.7.1)	X			
18. Head Entrapment... All components pass entrapment and partially-bounded opening tests. Partially bounded openings < 24" H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))	X			
19. Sharp Points and Edges... Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)	X			
20. Protrusions... All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)	X			
21. Entanglements... No protrusions project upwards > 1/8" from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8" in width and 1/8" in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)	X			
22. Entanglements... All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04"; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1) Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)	X			
23. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)	X			

Platforms, Landings, and Walkways (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
24. Hardware/General Concerns				
Fasteners are corrosion-resistant or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts and bolts are self-locking or have a means to prevent detachment. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)		X	2	Almost all fasteners on composite structure are rusted and should be replaced as soon as possible.
Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)	X			
Equipment is free of rust/chipping paint. (CPSC 2.5.4)	X			
Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)	X			

Playground Safety Compliance Audit Form

Inspector (print) Meghan Talarowski Signature  CPSI # 32886-1118
 Date 10/24/18 Time 2:00pm Weather Sunny, 45 degrees
 Playground Name and/or Identification Number Park Forest Elementary School

Injuries to children may occur from many types of playground equipment and environmental conditions. The checklist on the following pages will help you to assess and correct safety concerns that may be present on or near your playground. While it does not cover every potential safety concern in a children's environment, it is an overview of most known playground safety concerns. The checklist does not apply to home playground equipment, amusement park equipment, or to equipment normally intended for sports use. The checklist also does not address the many important issues of child development that pertain to play.

The playground safety compliance audit form is not a regulatory standard, but a compilation of suggested guidelines based upon the *Public Playground Safety Handbook* written by the U.S. Consumer Product Safety Commission (CPSC)¹ Revised November 2010; American Society for Testing and Materials (ASTM)² F1487-11 Standard; Department of Justice 2010 ADA Standards for Accessible Design (2010 Standards) for Title II (28 CFR Part 35) and Title III (28 CFR Part 36), Sections 240 and 1008 Play Areas³ (These accessibility standards published in the Federal Register on September 15, 2010 can be found at: <http://www.ada.gov/reg2010/2010ADASTandards/2010ADAstandards.htm>) and expert opinions from individuals with a vast amount of experience in the field of playground safety.

Acknowledgments:

- Created from the "Statewide Comprehensive Injury Prevention Program" (SCIPP), Department of Public Health, 150 Trecost Street, Boston, MA 02111
- Adapted as Wheaton Park District's "Initial Playground Safety Audit" September, 1989, Revised December 20, 1990 and November, 1991, Ken Kutska, CPRP
- Edited and updated June, 1992, by Ken Kutska, CPRP, and Kevin Hoffman, ARM, Park District Risk Management Agency
- Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Edited and updated March, 1998, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Edited and updated March, 2003, by Ken Kutska, CPRP, CPSI; Kevin Hoffman, ARM, CPSI, and Tony Malkusak, CPRP, CPSI
- Excel™ formatted 2004, revised citations to 2008 CPSC *Handbook* and ASTM F1487-07ae¹ Standard, August, 2008, by Steve Plumb, CPRP, CPSI
- Revised September 2008 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director
- Revised August 2011 by IPSI, LLC, Ken Kutska, CPRP, CPSI, Executive Director

1. U.S. Consumer Product Safety Commission, (CPSC), 4330 East West Highway, Bethesda, MD 20814
 2. American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive West Conshohocken, Pennsylvania 19428
 3. U.S. Access Board, 1331 F Street, NW, Suite 1000, Washington, DC, 20004
 (<http://www.ada.gov/reg2010/ADAregs2010.htm>)

Playground Safety Audit Forms

Background Information

Page 1

IMPORTANT: This information has been prepared to assist the agency's attorney in defending potential litigation. Do not release to any person except an agency official, insurance representative, or an investigating police officer.

Play Area: Park Forest Elementary School Date: 10/24/18
 Eqpt Type: Composite Structures, Swings, Climbers, Seesaw Surface: Wood Mulch
 Audited By: Meghan Talarowski Intended User Age: 5-12

General Environment

1. Category of Playground: (check all that apply)
 Community Park Public School Childcare Center
 Neighborhood Park/Tot Lot Private School Other: _____

2. Equipment Inventory: (indicate the number of equipment pieces that exist)

A. Composite Structures	B. Freestanding Eqpt	C. Site Amenities
stairways/step ladders <u>3</u>	swings (to-fro) <u>2</u>	benches <u>1</u>
stairways/step ladders _____	rotating swings _____	tables _____
rigid climbers <u>13</u>	seesaws <u>2</u>	water fountains _____
flexible climbers _____	slides <u>1</u>	bicycle racks _____
decks/platforms <u>3</u>	rigid climbers <u>1</u>	wheelchair parking _____
play panels <u>1</u>	flexible climbers <u>1</u>	signs (safety) _____
slides <u>4</u>	upper body eqpt <u>3</u>	litter barrels _____
sliding poles <u>1</u>	rocking eqpt _____	fencing <u>X</u>
horizontal ladders <u>1</u>	merry-go-round _____	accessible route to play area _____
horizontal rings <u>1</u>	spinner (< 20" D) _____	other _____
track rides _____	sand play area _____	other _____
crawl tunnels _____	backhoe digger _____	other _____
clatter/other bridges <u>2</u>	play panels _____	other _____
ramps _____	stepping pods _____	
transfer stations <u>3</u>	net climber _____	(2) Balance Beams
roofs _____	other _____	
other _____	other _____	
other _____	other _____	

General Environment (continued)

3. Playground Perimeter Concerns

Directions: Check all potential concerns that exist, and indicate the actual distance item is from play area border. The owner/operator shall evaluate each border concern for possible mitigation.

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Playground Perimeter Concerns	Distance from Border	Priority Rating	Comments
1st public street	>100'		
2nd public street	>100'		
3rd public street			
4th public street			
streets with heavy traffic			
water (ponds/streams/ditch)			
soccer/football field			
baseball/softball field (home plate)			
basketball court	25'		
parking lot	>100'		
railroad tracks			
trees (not pruned up at least 84" within playground area)			
golf course			
quarry pit (cliff-like condition)			
contaminated area/landfill			
other (specify)			
other (specify)			
other (specify)			

General Environment (continued)

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General Environment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
4. If needed, fence is provided for perimeter concerns. See Pg 2 for list of concerns. (CPSC 2.1) (Fencing Reference ASTM F2049)	X X			
5. Shaded area is provided. (CPSC 2.1.1)		X X	4 4	Shade recommended
6. Play area is visible to deter inappropriate behavior. (CPSC 2.2.4)	X X			
7. Equipment not recommended on public playgrounds include... climbing ropes not secured at both ends, trampolines, swinging gates, giant strides, heavy metal swings (animal swings), rope swings, swinging dual exercise rings and trapeze bars. (CPSC 2.3.1)	X X			
8. Playground is accessed safely by a sidewalk that is free of standing water, pea gravel, and low branches and complies with the DOJ 2010 Standard for Accessible Design (min. 80" overhead clearance, 60" min. width, max. cross slope of 1:50 and max. running slope of 1:20, max. gaps of 1/2" and no vertical rise greater than 1/4" without a beveled edge, and finally there should be no depressions greater than 1/2").		X X	3 3	Some playground components accessed via asphalt path. Recommend all elements accessed via accessible path.
9. Seating (benches, tables) is in good condition (free of splinters, missing hardware/slats, sharp edges, etc). (exempt from ASTM F1487)	X X			
10. Signs on all bordering streets advise motorists that a playground is nearby.	X X			
11. Trash receptacles are provided and located outside of play area use zone.		X X	4 4	Trash receptacles recommended

Materials and Manufacture

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Playground equipment is manufactured and constructed only of materials that have a demonstrated durability and comply with the Consumer Product Safety Improvement Act of 2008. (ASTM 4.1.2; CPSC 2.5.1)	X X			
2. Metals subject to structural degradation such as rust or corrosion are painted, galvanized or otherwise treated. (ASTM 4.1.1; CPSC 2.5.1)		X X	2 2	Certain structures have flaking paint and visible rust. Some rust has compromised the structural integrity of the metal and could fail.
3. Wood materials are naturally rot-resistant or treated to avoid deterioration. (ASTM 4.1.3; CPSC 2.5.5)	NN/AA			
4. Plastics and other materials that experience ultraviolet (UV) degradation are UV protected. (ASTM 4.1.1)	X X			
5. Users cannot ingest, inhale, or absorb any potentially hazardous amounts of substances through body surfaces as a result of contact with the equipment. (ASTM 4.1.2 and 4.1.3; CPSC 2.5.4)	X X			
6. Moving suspended elements are connected to the fixed support w/ bearings or bearing surfaces that serve to reduce friction and wear. (ASTM 4.2.3; CPSC 2.5.2)	X X			
7. Steel cable permanently affixed to a hanger assembly performs as a bearing surface. Cable ends are inaccessible or capped. Cables or steel-cored ropes are protected to prevent fraying, loosening, unraveling, or excessive shifting. (ASTM 4.2.3.1)	X N/A			
8. Creosote-treated wood and coatings that contain pesticides are not used. (ASTM 4.1.3; CPSC 2.5.5)	N N/AA			
9. CCA-treated wood is not used, or is regularly coated (min. once/year) w/ a penetrating sealant or stain. (CPSC 2.5.5.1)	N N/AA			
10. Play structures are anchored to the ground and not intended to be relocated. (ASTM 5.3)		X X	4 4	Climbing wall end is wobbly. Recommend footing inspection.

Use Zones

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
A. Stationary Equipment				
1. Use zone extends min. 72" on all sides of structure. Equipment intended for user to maintain contact w/ the ground during play (i.e. talk tubes, activity panels) is exempt from use zone requirements. (ASTM 9.2.1; CPSC 5.3.9)		X	2	Climber in forest does not have correct use zones and is structurally unsafe. Recommend removal. Fitness equipment does not have correct use zone. Recommend updating surfacing.
2. Use zones for 2 or more stationary structures that are play-functionally linked are treated as if separate components are part of a composite unit. (ASTM 9.2.2; CPSC 5.3.9)	N/A			
3. Use zones of stationary equipment and other equipment may overlap. If adjacent designated play surfaces of each structure are < 30", the min. distance between equipment is 72". If adjacent designated play surfaces of either structure are > 30", the min. distance between equipment is 108". (ASTM 9.2.3; CPSC 5.3.10)	X			
B. Rotating Equipment				
1. Minimum use zone for rotating eqpt is 72" from perimeter. No other structure may overlap this use zone. Rotating eqpt < 20" diameter are exempt and may be 72" apart when each have designated play surfaces < 30" high, or 108" apart when one or both have designated play surfaces > 30" high. (ASTM 9.3.2; CPSC 5.3.4.1)	N/A			
2. Single user equipment (i.e. sand diggers) where user maintains contact w/ the ground are exempt from use zone requirements. (ASTM 9.2.1)	N/A			
3. No other structure overlaps the use zone of eqpt that rotates around a horizontal axis w/ a designated play surface > 30". (ASTM 9.3.5)	N/A			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
C. To-Fro Swings				
1. Use zone to front and rear of to-fro swing is 2X where X = distance between pivot point and surfacing by width of beam. (ASTM 9.4.1.1; CPSC 5.3.8.3.3) Combination Swing Use Zone should be composed of the individual use zones as defined in 9.4.1 and 9.4.2 or both for the individual suspended elements. (ASTM 9.4.3)		X	3	Surfacing should be full depth to front and rear and 6' on each end. Recommend updating surfacing.
2. For swings w/ fully enclosed To-Fro swing seats, use zone is 2W where W = distance between pivot point and top of occupied sitting surface. (ASTM 9.4.1.2; CPSC 5.3.8.3.3)	N/A			
3. No other play structure overlaps the front-to-rear use zone of a to-fro swing. (ASTM 9.4.1.3; CPSC 5.3.8.3.3)	X			
4. Use zone width is at least as wide as the swing top beam. T-swings use zones have special conditions. (ASTM 9.4.1.4)	X			
5. Use zone around support structure is min. 72" in all directions from the structure. Support structure use zones for adjacent to-fro swings may overlap (6' apart). Support structure use zones may overlap w/ other equipment w/ min. 108" between structures. (ASTM 9.4.1.5; CPSC 5.3.8.3.3)		X	3	Surfacing should be full depth to front and rear and 6' on each end. Recommend updating surfacing.
D. Rotating Swings				
1. Use zone is min. horizontal distance of Y+72", where Y = vertical distance between pivot point and top of swing seat. (ASTM 9.4.2.1; CPSC 5.3.8.4.1)	N/A			
2. No other play structure use zone overlaps rotating swing use zone. (ASTM 9.4.2.2; CPSC 5.3.8.4.1)	N/A			
3. Use zone around support structure is min.72" in all directions from the structure. (ASTM 9.4.2.3; CPSC 5.3.8.4.1)	N/A			
4. Support structures of adjacent rotating swings may overlap (6' apart), however, swing bay clearances (Y+30") are not overlapped. (ASTM 9.4.2.4; CPSC 5.3.8.4.1)	N/A			
5. Support structure use zone may overlap use zone of other equipment w/ min. 108" between structures. (ASTM 9.4.2.5; CPSC 5.3.9)	N/A			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
E. Rocking/Springing Equipment				
1. Use zone for equipment intended for sitting is min. 72" in all directions from at-rest perimeter. (ASTM 9.5.1.1; CPSC 5.3.7)	N/A			
2. Use zone of adjacent eqpt may overlap when each structure has max. seat height and/or designated playing surface of less than or equal to 30". (ASTM 9.5.1.2; CPSC 5.3.7)	N/A			
3. Use zone of rocking/springing eqpt may overlap to 72" apart when each structure has max. designated play surface height < 30"; and to 108" apart when either has a designated play surface higher than 30" unless otherwise specified in ASTM Section 9. (ASTM 9.5.1.3; CPSC 5.3.7)	N/A			
4. Use zone for rocking/springing eqpt intended for standing is min. 84" in all directions from the at-rest perimeter. (ASTM 9.5.2.1)	N/A			
5. No other play structure use zone overlaps the standing rocking/springing structure use zone. (ASTM 9.5.2.2)	N/A			
6. Equipment w/ limited movement or eqpt on which user cannot develop enough force to launch or propel themselves away from the eqpt is exempt from these requirements. (ASTM 9.5.2.3)	N/A			
F. Slides				
1. Use zone around steps or ladder, chute, platform or slide bed of straight, wavy, or spiral slides is min. 72" from perimeter. (ASTM 9.6.1; CPSC 5.3.6.5)	X			
2. Use zone at exit is min. X where X = vertical distance from highest point of sliding surface to surfacing. Use zone at slide exit is min. 72" and need not be > 96". (ASTM 9.6.2, 9.6.2.1; CPSC 5.3.6.5)	X			
3. A clear zone, free of equipment, extends min. 21" from inside of each side wall from the end of the slide to the perimeter of the slide use zone. Clearance zones for two or more parallel slide beds may overlap. Clearance zones for converging slides may not overlap. (ASTM 8.5.6, 9.6.3)	X			

Use Zones (continued)

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
G. Track Rides				
1. Track ride use zones are min. 72" in all directions from equipment. (ASTM 9.9.1)	X			
H. Composite Structures				
1. Use zone is min. 72" from structure perimeter, and complies w/ use zones established for individual types of eqpt. (ASTM 9.7.1 and 9.7.2; CPSC 5.3.9)		X	2	Structure does not have compliant use zone, and has structural deficiencies. It should be removed.
2. Professional judgment may be used to eliminate hazards created by circulation conflicts or adjacent structures that are in close proximity. (ASTM 9.7.2)	X			
I. Placement of Equipment				
1. Sufficient space is provided between all adjacent structures and individual play eqpt for the purposes of play and circulation. (ASTM 9.8; CPSC 2.2.4)	X			
2. In settings where periodic overcrowding is likely, a supplemental circulation area beyond the use zone is provided, using professional judgement of owner/operator. (ASTM 9.8.2 and CPSC 2.2.4)	X			
3. Moving equipment such as swings and rotating equipment are located near the periphery away from circulation routes. (ASTM 9.8.3; CPSC 2.2.4)	X			
4. Overhead obstructions within play structure usezones are min. 84" from each designated play surface, the use zone, or the pivot point of swings. (ASTM 9.8.4.1)	X			
5. Overhead utility line clearances comply w/ all local, state, and national codes such as National Electrical Safety Code. (ASTM 9.8.4.2)	X			

Maintenance, Surfacing, Labeling, Signage

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
A. Maintenance				
1. Owner/Operator maintains detailed installation, inspection, maintenance, and repair records for each playground area. (ASTM 13.3; CPSC 4)		X	5	Recommend retaining records in future.
B. Protective Surfacing				
1. Owner/Operator maintains the protective surfacing within the use zone of each play structure in accordance w/ ASTM F1292 w/ a critical height appropriate for the fall height of each structure, and ASTM F1951 where applicable (ASTM 13.2.1; CPSC 2.4) and the Accessible Route in accordance w/ DOJ 2010 Standard (Section 1008.2.6)		X	3	Surfacing depth is less than recommended and is also not an accessible surface. Recommend replacement by Engineered Wood Fiber, or other accessible surface, to depth per manufacturer.
2. Protective surfacing is maintained free from extraneous materials that could cause injury, infection, or disease. (ASTM 13.2.2; CPSC 4)	X			
3. Surfacing is well-drained and free of standing water. (ASTM 13.2.2; CPSC 2.4.2.2)	X			
4. Written documentation available of laboratory compliance testing ASTM F1292 and F1951 and F2075 for EWF. (ASTM 13.2, 13.3)		X	5	Recommend retaining records after surfacing replacement.
5. Written documentation available of post installation compliance to the appropriate ASTM Standards. (ASTM 13.3)		X	5	Recommend retaining records after surfacing replacement.
C. Labeling				
1. On or near all play structures where applicable have posted a warning label containing... 1) signal word WARNING , 2) safety alert symbol (triangle w/ exclamation point inside) preceding signal word, and 3) warning message "Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from falls." (ASTM 14.2.5)		X	5	Recommend installing labels.
2. Manufacturer's identification appears, is durable, and is placed on the play structure. (ASTM 15)	X			
D. Information Signage				
1. Signs or labels provide information for age appropriateness of playground. (ASTM 14.2.1)		X	5	Recommend installing labels.
2. Signs or labels provide information stating adult supervision is recommended. (ASTM 14.2.2)		X	5	Recommend installing labels.
3. Sign posted to communicate warning for the need to remove helmets, drawstrings and items around the neck due to strangulation. (ASTM 14.2.3)		X	5	Recommend installing labels.
4. Sign posted to communicate warning about hot play surfaces and surfacing can cause severe burns to young children. (ASTM 14.2.4; CPSC 2.2.6, 2.5.3, 3.2.1)		X	5	Recommend installing labels.
5. Freestanding signs are located outside the equipment use zone to alert the user of the concern in time to take action. (ASTM 14.1.1.2, 14.1.2, 14.1.3)		X	5	Recommend installing signs.

Accessibility

General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
This form is provided so that owner/operators can evaluate appropriate accessibility requirements from the Department of Justice 2010 ADA Standards for Accessible Design (2010 Standards) for Title II (28 CFR Part 35) and Title III (28 CFR Part 36), Sections 240 and 1008 Play Areas. This Federal Law became enforceable in March of 2011. These items will not be found in ASTM or CPSC documents but the Law is referenced in both. This Section will assist in your assessment of compliance to the minimum requirements of this Standard.				
1. Outside the play area the Accessible Route (AR) has max. running slope of 1:20 and max. cross slope of 1:50 and a minimum of 60" wide w/ max. abrupt vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp 1:12 max. (DOJ 2010 Standard Sec. 303)	X			
2. Inside the play area the AR is at least 60" wide (W), has max. cross-slope of 1:48, and 80" overhead clearance with max. running slope no steeper than (1:16 within) (DOJ 2010 Standard Sec. 1008.2.5.1) Play areas < 1,000 sq ft may have 44" W AR to play area. When 44" AR is > 30' it must have at least one 60" diameter turning space. (DOJ 2010 Standard Sec. 1008.2.4.1)		X	3	There is space in the play area for an accessible route, however playground surfacing is not compliant. Recommend replacement by Engineered Wood Fiber, or other accessible surface, to depth per manufacturer.
3. Elevated ramps are 36" min. w/ a max. run of 144" and running slope less than or equal to 1:12 (ASTM 7.2.4)	N/A			
4. Landings have min. 60" diameter at top and bottom of each run when there is a change in direction otherwise it must be equal to width of ramp. Landings w/ play elements have 30x48" wheelchair parking area w/out reducing adjacent circulation path to < 36". (ASTM 7.2.5 and DOJ 2010 Standard Sec. 405 and 406)	N/A			
5. Ramps with 2 rails or no rails, barriers beyond the ramp edge, or barriers not extending to w/in 1" of ramp surface must have curb ≥ 2" above the ramp. (ASTM 7.5.5.5 and .6)	N/A			
6. Ramps > 30" H (for 2-5 yrs) or > 48" H (for 5-12 yrs) have barriers. (ASTM 7.5.6.1 and .2)	N/A			
7. Ramps have handrails (0.95" to 1.55") on both sides at height (H) between 26"-28". (ASTM 7.5.5.5 and DOJ 2010 Standard Sec. 1008.2.5.3.1 and .2)	N/A			
8. Transfer point H is between 11-18" w/ clear min. 24" W x 14" D. Transfer steps are max. 8" H w/ handholds to assist with transfer. (DOJ 2010 Standard Sec. 1008.3.1.1 and .2)	X			
9. Transfer Point has min. clear space of 60" dia. turning area at base and may overlap parking space but the 48" parking space length (L) dimension must be centered parallel to the 24" W of the transfer platform. (DOJ 2010 Standard Sec. 1008.3.1.3 Transfer Space and ASTM 7.5.4)	X			
10. Play area use zone has accessible safety surfacing to all accessible play components. (ASTM 7.1.1) and compliant w/ DOJ 2010 Standard Sec. 1008.2.6 Ground Surfaces)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.

Accessibility (continued)

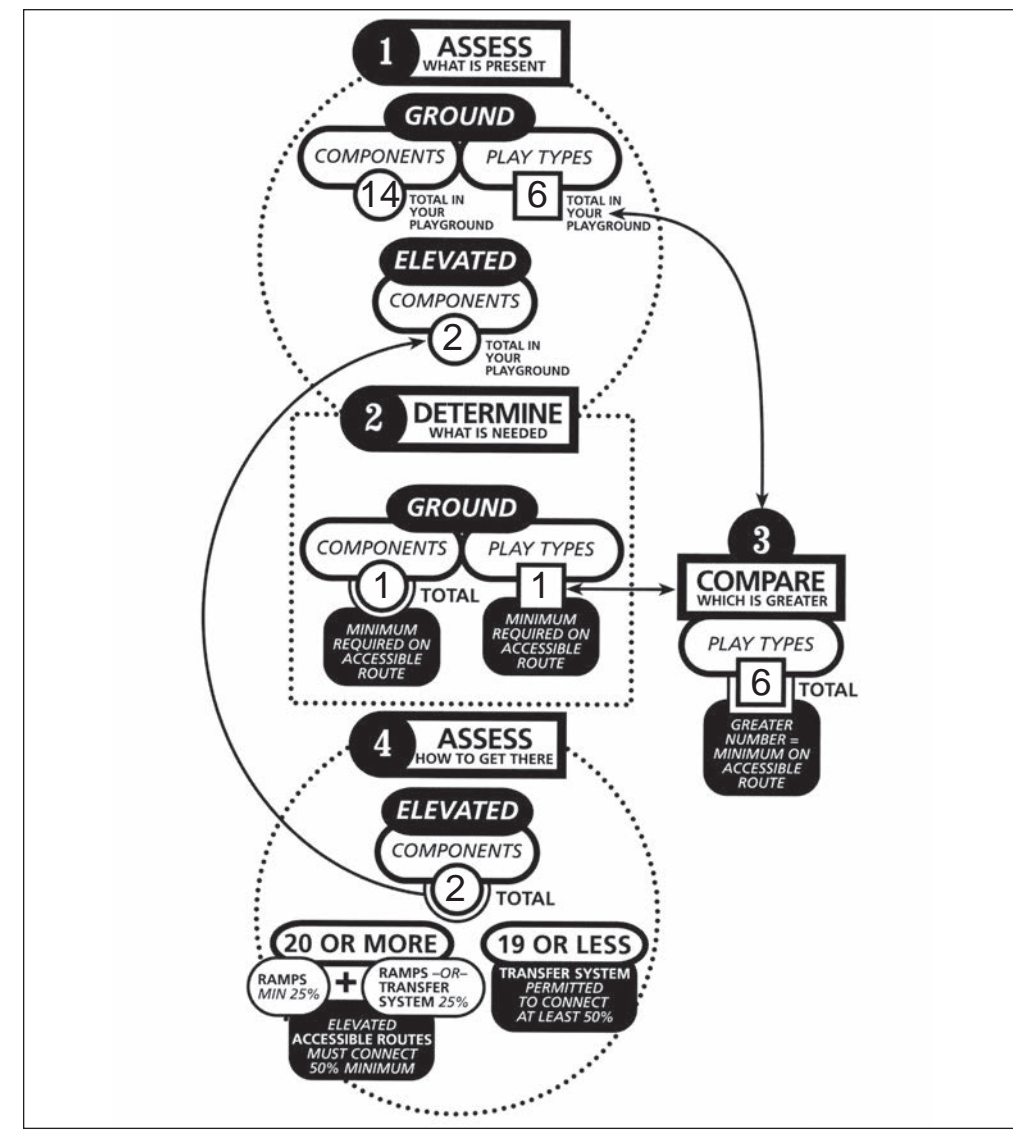
General Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
11. Accessible restroom facilities, seating, drinking fountain, and shade are located in or near the play area and on the AR. (DOJ 2010 Standard Sec. 206 Accessible Routes, 206.2.17 Within a Site and Chapter 4)	X			
12. Openings on elevated wheelchair accessible access/egress points are < 15". (ASTM 7.5.6.3 (1-4) (Step Platforms, Ramps, and Upper Body and Accessible Access/Egress Components exempt.) (ASTM 7.5.5.2(3))	N/A			
13. Accessible Ramps and Platforms have - Max. Horizontal openings 0.5" sphere, Max. vertical rise - 1/4", or 1/4" + 1/4" beveled, and > 1/2" must be ramp 1:12 max. (DOJ 2010 Standard Sec. 302.2 and .3)	N/A			
14. Elevated accessible play opportunities designed w/ different access/egress points, such as slides, allow user to return unassisted to original transfer point. (DOJ 2010 Standard - Advisory Section 1008.3)	X			
15. Vertical Knee clearance is min. 24"H, 17"D, 30"W and 31"H max top of playing surface. (DOJ 2010 Standard - Section 1008.4.3 Play Tables)	N/A			
16. Accessible upper body eqpt, such as horizontal ladders and rings, are < 54" H. (ASTM 8.3.3)	N/A			
17. Accessible manipulative play eqpt, such as panels, are between 20-36" H for 2-5 year olds and 18-44" H for 5-12 year olds. (DOJ 2010 Standard - Section 1008.4)	X			
Refer to Accessibility Flow Chart for Questions 18 and 19 DOJ 2010 Standard Section 240.2 Play Components				
18. A. Where ground level components are provided at least one of each type shall be on AR. (DOJ 2010 Standard Sec. 240.2.1.1)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.
B. Meet minimum # Ground Level Play Components and Play Types on AR. (DOJ 2010 Standard Sec. 240.2.1.2)		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.
19. Elevated AR connects minimum 50% Elevated Play Components by Ramp or Transfer. NOTE: 20 or more Elevated Play Components require minimum of 25% connected by Ramp. If 50% or more elevated play components are accessible by ramp they must be at least 3 different types. (DOJ 2010 Standard Sec. 240.2.1.2)	N/A			
20. All access points along AR conform to DOJ 2010 Standard Section 206.2.17, and Play Areas Section 240; Chapter 4, 402/403 Accessible Routes minimum 1:20 running slope requirements at transition points w/ side slope transition of 1:48.		X	3	Recommend replacement by Engineered Wood Fiber, or other accessible surface.

Use Flow Chart for Accessibility Section Questions 18 and 19

Table 240.2.1.2

Number and Types of Ground Level Play Components Required to be on Accessible Routes

Number of Elevated Play Components Provided	Minimum Number of Ground Level Play Components Required to be on an Accessible Route	Minimum Number of Different Types of Ground Level Play Components Required to be on an Accessible Route
1	Not applicable	Not applicable
2 to 4	1	1
5 to 7	2	2
8 to 10	3	3
11 to 13	4	3
14 to 16	5	3
17 to 19	6	3
20 to 22	7	4
23 to 25	8	4
26 and over	8, plus 1 for each additional 3, or fraction thereof, over 25	5



Access and Egress

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Steps/rungs are evenly spaced w/in ± .25" and horizontal w/in ± 2°. (ASTM 7.2.1)	X			
2. Steps do not allow accumulation of water or debris. (ASTM 7.2.2; CPSC 5.2.1)	X			
3. Stairways, step/rung ladders conform w/ access slope; tread, rung, ramp width; tread depth; rung diameter; and vertical rise for intended user group per ASTM Table 2. (ASTM 7.2.3; CPSC 5.2.1)	X			
4. Ramps intended for access have a max. horizontal run of 144". (ASTM 7.2.4)	N/A			
5. Landings w/ play components include wheelchair parking space w/ an adjacent circulation path ≥ 36". (ASTM 7.2.5)	X			
6. Continuous handrails are provided on both sides of stairs w/ > 1 tread; stairs w/ 1 tread have handrail or alternate means of support; Handrail height between 22-38" beginning at 1st step. (ASTM 7.2.6; CPSC 5.2.3)	X			
7. Handrails have diameter between .95-1.55". (ASTM 7.2.6.4; CPSC 5.2.2)	X			
8. Arch and flexible climbers not sole means of access for users 2-5. (ASTM 7.3.2.1; CPSC 5.2.1, 5.3.2.2, Table 5)	X			
9. Climbers used as access provide a means of hand support for use while climbing. (ASTM 7.3.2.5; CPSC 5.2.2)	X			
10. Stairways and stepladders have continuous handrails from access to platform. (ASTM 7.4.1; CPSC 5.2.3)	X			
11. Accesses w/o handrails (rung ladders, arch climbers, flexible components, etc.) have alternate hand gripping component to facilitate this transition to platform. (ASTM 7.4.2; CPSC 5.2.4)	X			
12. Stepping surface for final access on rung ladders, arch climbers, and flexible components are not connected above the designated play surface they serve. (ASTM 7.4.3; CPSC 5.2.1)	X			

Access and Egress (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
13. Head Entrapment... All components pass entrapment and partially-bounded opening tests. Partially bounded openings < 24" H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))	X			
14. Sharp Points and Edges... Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)	X			
15. Protrusions... All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)	X			
16. Entanglements... No protrusions project upwards > 1/8" from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8" in width and 1/8" in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)	X			
17. Entanglements... All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04"; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1) Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)	X			
18. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)	X			
19. Hardware/General Concerns				
Fasteners are corrosion-resistant or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts and bolts are self-locking or have a means to prevent detachment. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)	X			
Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)	N/A			
Equipment is free of rust/chipping paint. (CPSC 2.5.4)		X	4	Multiple instances of rust. Recommend sand and repaint.
Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)	X			

Platforms, Landings, and Walkways

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
1. Platforms are horizontal w/in a tolerance of ± 2°. (ASTM 7.5.1; CPSC 5.1.1)	X			
2. Platforms, landings, walkways, and ramps do not trap water and accumulate debris. (ASTM 7.5.2; CPSC 5.1.1)	X			
3. Platforms, landings, walkways, and ramps, and other elevated surfaces that are accessible to wheelchairs provide a min. 36" clear width; clear width may be reduced to 32" for max. 24". (ASTM 7.5.3)	X			
4. Turning and parking spaces provided at a transfer point do not overlap. (ASTM 7.5.4)	N/A			
5. Guardrails contain no designated play surfaces. (ASTM 7.5.5)	X			
6. Guardrails are present on elevated surfaces > 20" when intended for 2-5, and > 30" when intended for 5-12. (ASTM 7.5.5.1; CPSC 5.1.3)	X			
7. Guardrails surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15". (ASTM 7.5.5.2; CPSC 5.1.3)	X			
8. Top surface of guardrails min. 29" when intended for 2-5, and 38" when intended for 5-12. (ASTM 7.5.5.3; CPSC 5.1.3)	X			
9. Lower edge of guardrails max. 23" when intended for 2-5, and 28" when intended for 5-12. (ASTM 7.5.5.4; CPSC 5.1.3)	X			
10. Wheelchair accessible ramps requiring guardrails for either 2-5 or 5-12 year olds have one handrail on both sides between 20-28" H. (DOJ 2010 Standard Section 1008.2.5)	N/A			
11. Wheelchair accessible ramps have 2" curb at both edges, unless guardrails and barriers don't extend to w/in 1" of ramp surface, or ramp has 2 rails and no barrier, or if barrier is beyond edge of ramp surface. (ASTM 7.5.5.6)	N/A			
12. Barriers contain no designated surface and minimize climbing. (ASTM 7.5.6; CPSC 5.1.3)	X			

Platforms, Landings, and Walkways (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
13. Barriers provided on elevated surfaces > 30" when intended for 2-5, and > 48" when intended for 5-12. (ASTM 7.5.6.1)	X			
14. Wheelchair accessible ramps that require barriers have one handrail on both sides between 20-28" H. (DOJ 2010 Standard Section 1008.2.5)	N/A			
15. Barriers surround elevated surface except for access and egress openings; max. clear opening w/o a horizontal top rail is 15". (ASTM 7.5.6.3)	X			
16. Top surface of barrier is 29" min. when intended for 2-5, and 38" max. when intended for 5-12. (ASTM 7.5.6.4)	X			
17. Adjacent platforms w/ height difference > 12" when intended for 2-5 or > 18" when intended for 5-12 have an access component. (ASTM 7.5.7.1)	X			
18. Head Entrapment... All components pass entrapment and partially-bounded opening tests. Partially bounded openings < 24" H exempt. (ASTM 6.1, 6.1.4, 6.1.4.7(3))	X			
19. Sharp Points and Edges... Eqpt free of splinters, sharp points, edges; tubing is capped; bolts free of burrs, sharp points, and edges. (ASTM 6.2; CPSC 3.4)	X			
20. Protrusions... All components pass protrusion test. Nuts, bolts, screws recessed, covered, or sanded smooth and level. (ASTM 6.3; CPSC 3.2)	X			
21. Entanglements... No protrusions project upwards > 1/8" from horizontal plane; max. 2 fastener threads protrude through any nut perpendicular to initial surface; any protrusion increasing in diameter from initial surface less than or equal to 1/8" in width and 1/8" in depth is exempt. (ASTM 6.4.2, 6.4.3, 6.4.4)	X			
22. Entanglements... All connecting devices (S-hooks, C-hooks, etc.) are closed to within .04"; lower loop of S-hooks does not protrude past the upper loop; lower loop does not overlap. (ASTM 6.4.5.1) Connectors whose interior spaces are completely infilled are exempt. (ASTM 6.4.5.2.1)	X			
23. Crush/Shear... All components pass crush shear tests. (ASTM 6.5; CPSC 3.1)	X			

Platforms, Landings, and Walkways (continued)

General Equipment Conditions	Compliant (YES)	Non-comp (NO)	Priority Rating	Comments
24. Hardware/General Concerns				
Fasteners are corrosion-resistant or have a corrosion-resistant coating. Fasteners cannot be loosened without tools; nuts and bolts are self-locking or have a means to prevent detachment. (ASTM 4.2.1, 4.2.2; CPSC 2.5.2)	X			
Tires do not trap water; tires have no exposed steel belts. (ASTM 4.3; CPSC 3.7)	X			
Equipment is free of rust/chipping paint. (CPSC 2.5.4)	X			
Play area is free of tripping hazards. All anchoring devices are installed below ground level and beneath protective surfacing. Surfacing containment border is highly visible. (ASTM 7.3.2.2; CPSC 3.6)	X			

ADDENDUM : EXISTING EQUIPMENT

Corl Street Elementary School



CHALLENGER

Play Structure: 001746_P4

Ref.	Part No.	Description	Qty.
1	ZZCH0009	3-1/2" X 112" STEEL POST W/ RIVETED CAP	3
2	ZZCH0028	3-1/2" X 136" STEEL POST W/ RIVETED CAP	1
3	ZZCH6970	CLIMB ACROSS	1
4	ZZCH6441	10' VINYL COATED CHAIN BRIDGE	1
5	ZZCH9990	CHALLENGER "TOOLS & ADDITIONAL PARTS KIT"	1
6	ZZUN9910	SURFACING WARNING LABEL KIT	1
7	ZZUN9930	MAINTENANCE KIT	1

This modular unit contains 02 active play components that will accommodate approximately 5 users and take approximately 12.0 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 0.77 yards of concrete for footings.

Corl Street Playground



CHALLENGER

DRAWING NUMBER: 001746_3

Ref.	Part No.	Description	Qty.
1	CH0028	3-1/2" x 136" Steel Post w/ Riveted Cap	1
2	CH6980	Spring Training	1
3	CH9990	Challenger Tools & Additional Parts Kit	1
4	UN9910	Surfacing Warning Label Kit	1
5	UN9930	Maintainence Kit	1

The modular unit contains 01 active play components will accommodate approximately 1 users and take approximately 5.5 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 0.13 yards of concrete for footings.

CORL STREET ELEMENTARY



CHALLENGER

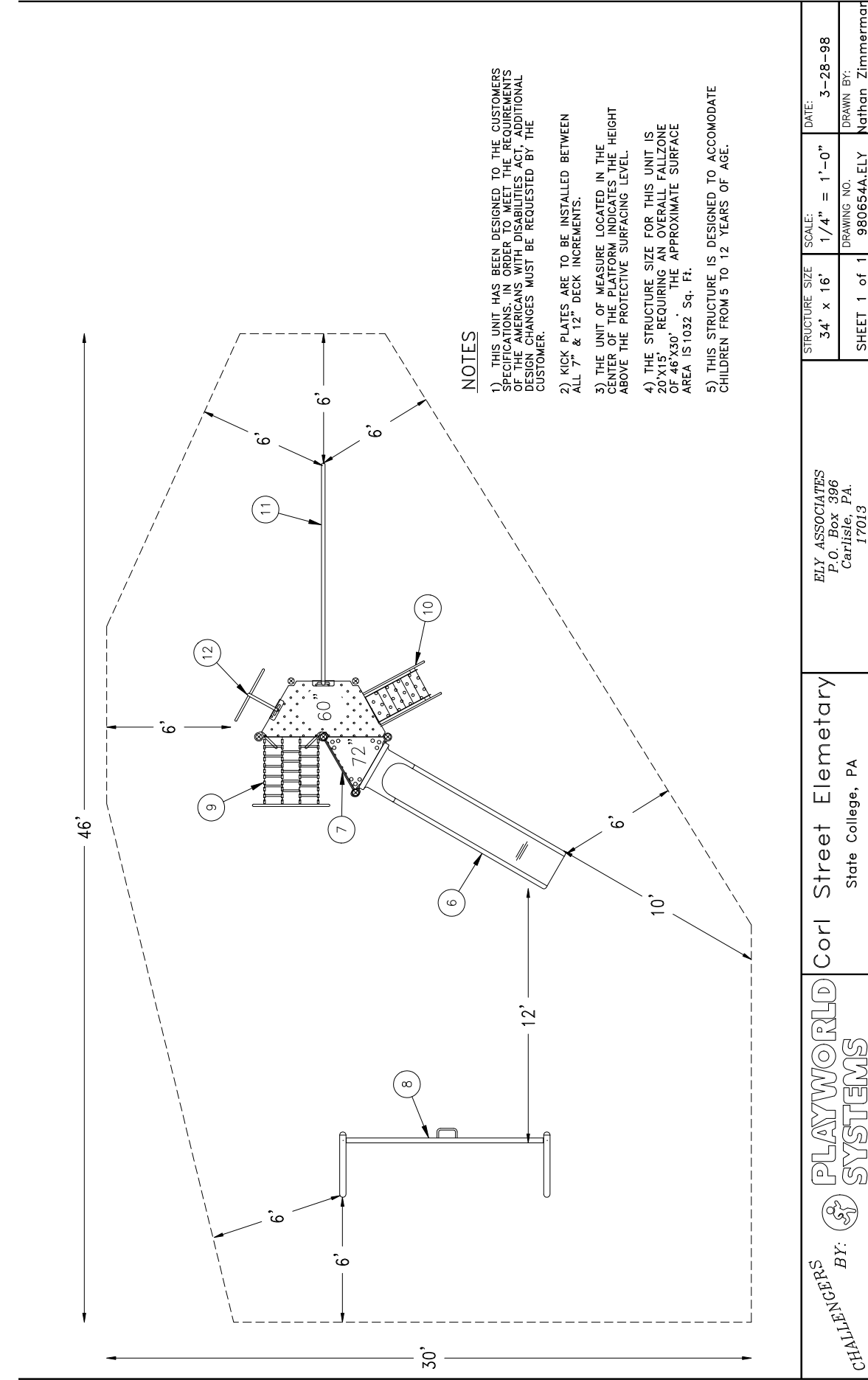
DRAWING NUMBER: 980654A

Ref.	Part No.	Description	Qty.
1	CH0795	Triangular Vinyl Coated Deck Assembly	1
2	CH0805	Vinyl Coated Half Hex Deck Assembly	1
3	CH0920	156" Support Post w/Riveted Cap	6
4	CH2530	12" Deck to Deck Kick Plate	1
5	CH1850	Cantilever Post	2
6	CH2930	Lightning Slide w/Hood (72" Deck)	1
7	CH4090	Centerline Pipe Wall Barrier	1
8	UN6990	Monorail	1
9	CH7240	Chain Net Climber (60" Deck)	1
10	CH9325	Vinyl Coated Ladder (60" Deck)	1
11	UN7640	Mountain Climber (60" Deck)	1
12	UN7670	Tree Climber Assembly (60" Deck)	1
13	CH9990	Challenger Tools & Additional Parts Kit	1
14	UN9910	Surfacing Warning Label Kit	1
15	UN9930	Maintenance Kit	1

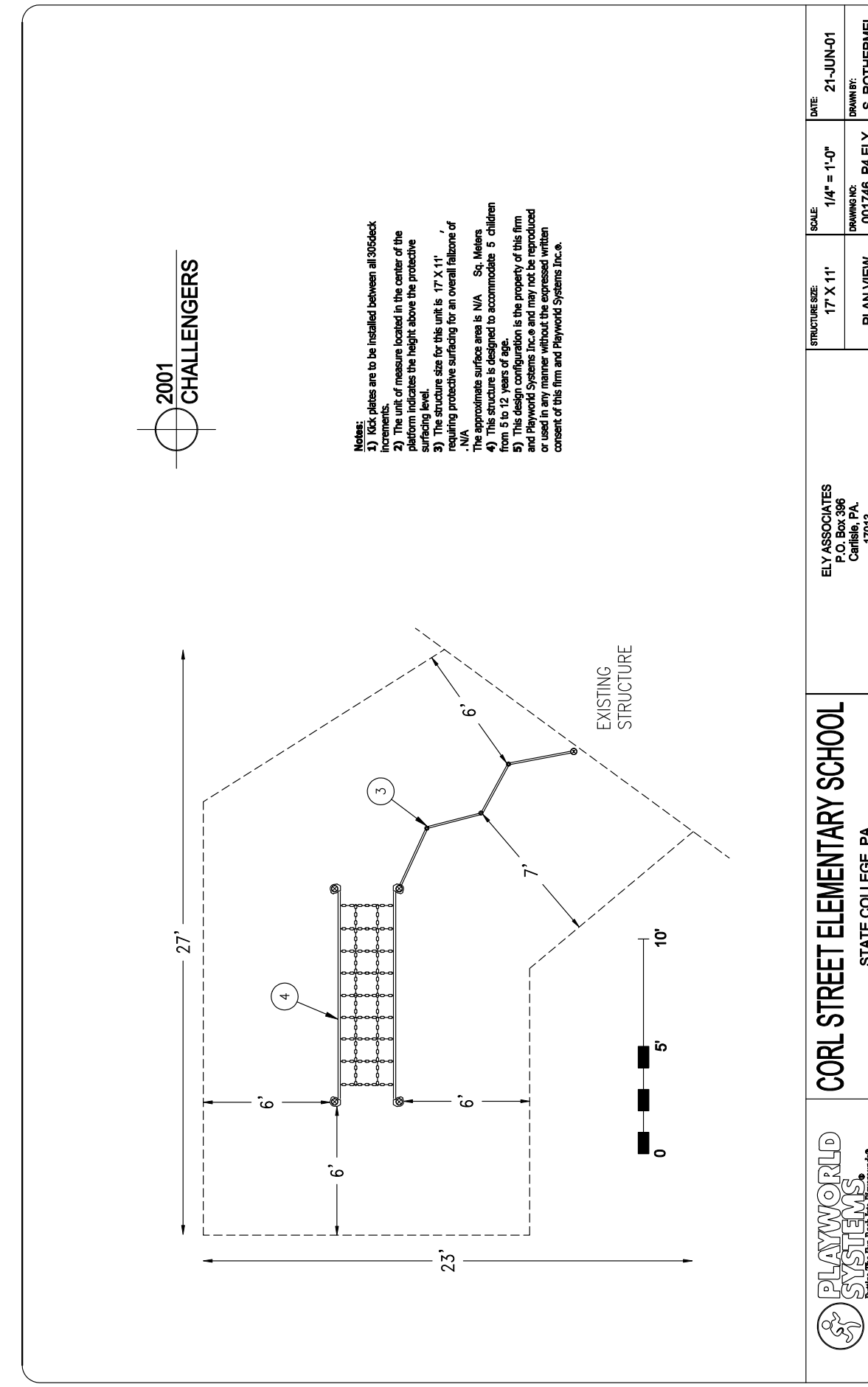
The modular unit will accommodate approximately 23 users and take approximately 21.4 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 1.28 yards of concrete for footings.

Tuesday, April 14, 1998

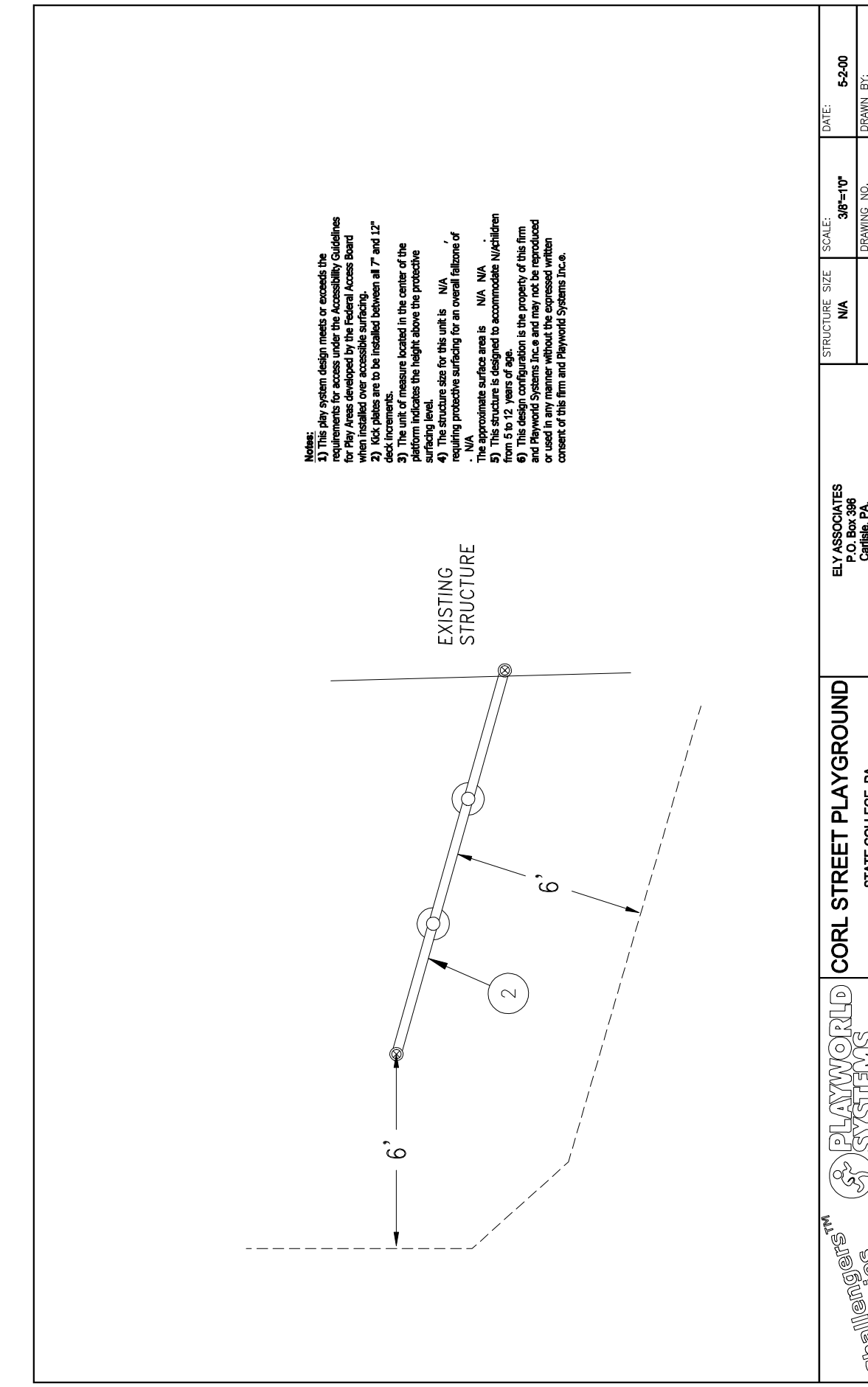
Page 1 of 1



	CHALLENGERS BY:	CORL Street Elementary State College, PA	ELY ASSOCIATES 700 BOX 396 Carlisle, PA 17013	STRUCTURE SIZE 34' x 16' = 1'-0"	DATE 3-28-98
				SHEET 1 of 1	DRAWN BY: Nathan Zimmerman



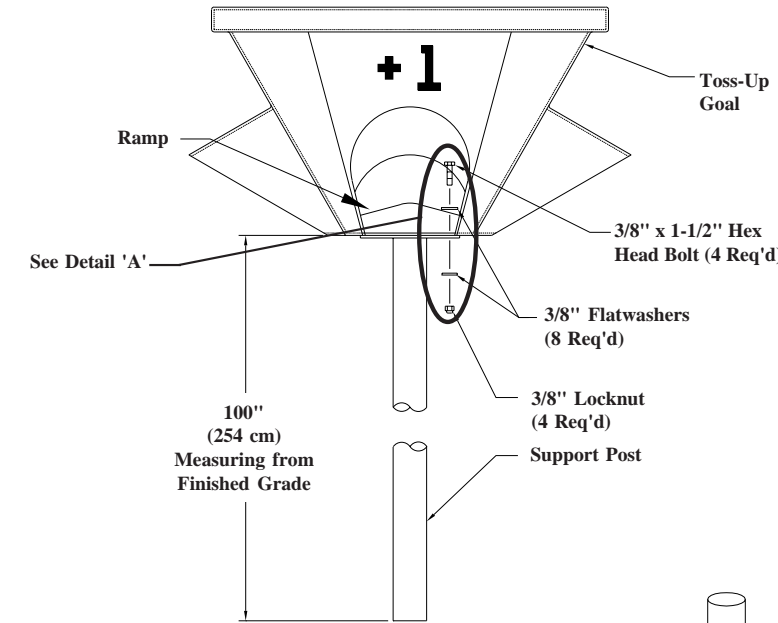
	CORL STREET ELEMENTARY SCHOOL STATE COLLEGE, PA	ELY ASSOCIATES P.O. Box 396 Carlisle, PA 17013	STRUCTURE SIZE 17' X 11'	DATE 21-JUN-01
			PLAN VIEW	DRAWN BY: S. ROTHERMEL



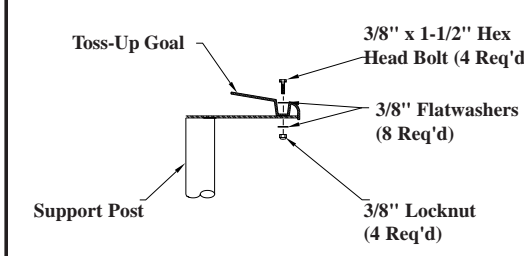
	CORL STREET PLAYGROUND STATE COLLEGE, PA	ELY ASSOCIATES P.O. Box 396 Carlisle, PA 17013	STRUCTURE SIZE N/A	DATE 5-2-00
			SHEET 1 of 1	DRAWN BY: GRANT SNYDER

TOSS-UP
MODEL 1050

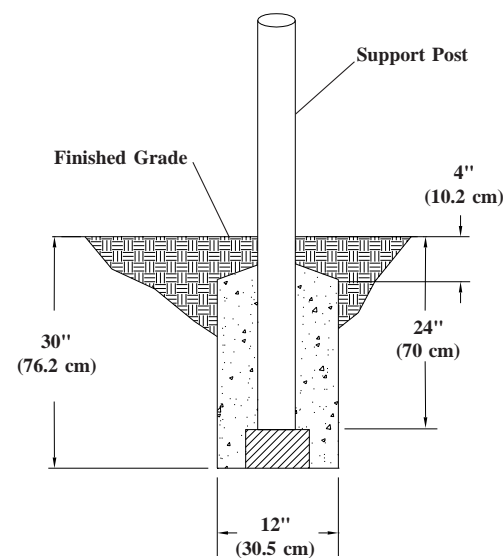
TOSS-UP



ASSEMBLY VIEW



DETAIL 'A'



FOOTING DETAIL



NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030

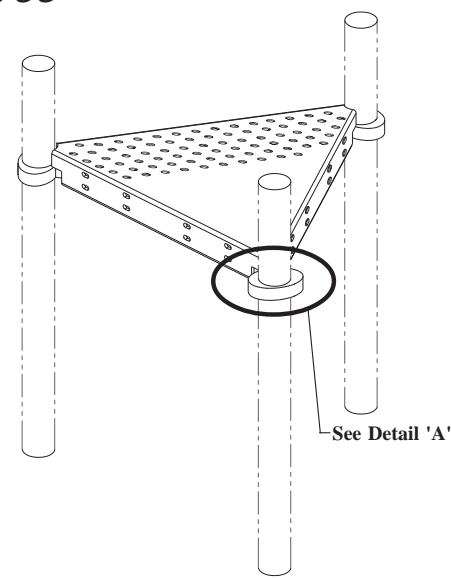
Page 1 of 2

SE1712

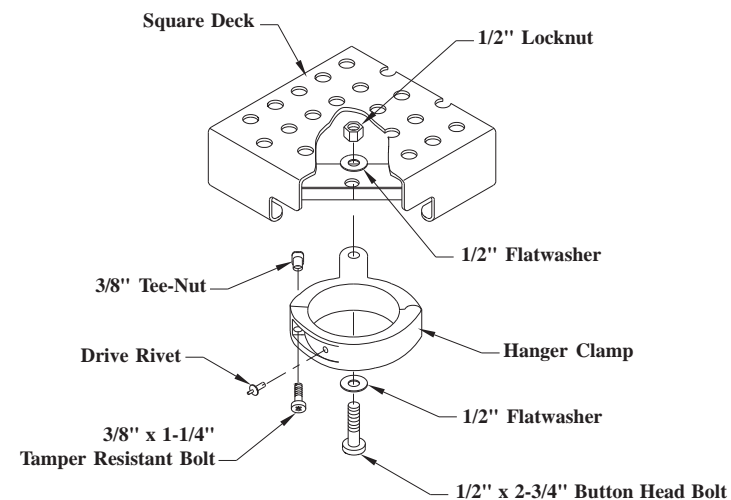
CHALLENGER

TRIANGULAR VINYL DECK
MODEL CH0795

TRI VINYL DECK



ASSEMBLY VIEW



DETAIL 'A'



NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030

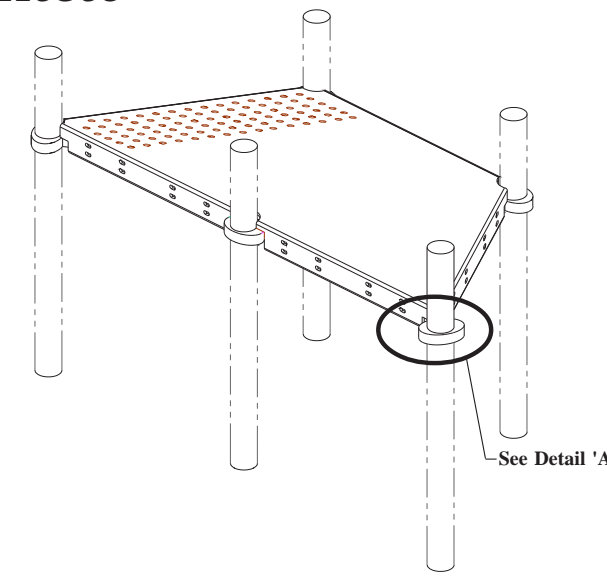
Page 1 of 2

PA483

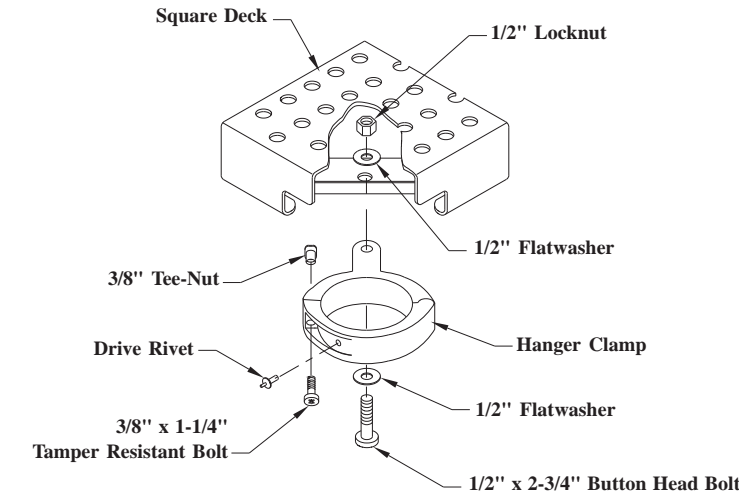
CHALLENGER

HALF HEX VINYL DECK
MODEL CH0805

HALF HEX VINYL DECK



ASSEMBLY VIEW



DETAIL 'A'



NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030

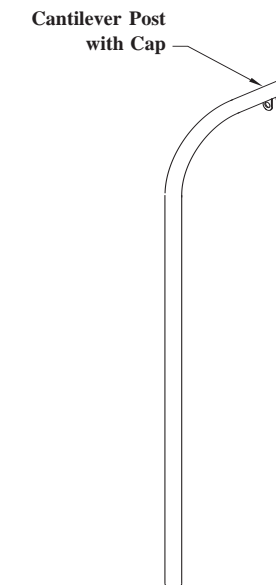
Page 1 of 2

PA483

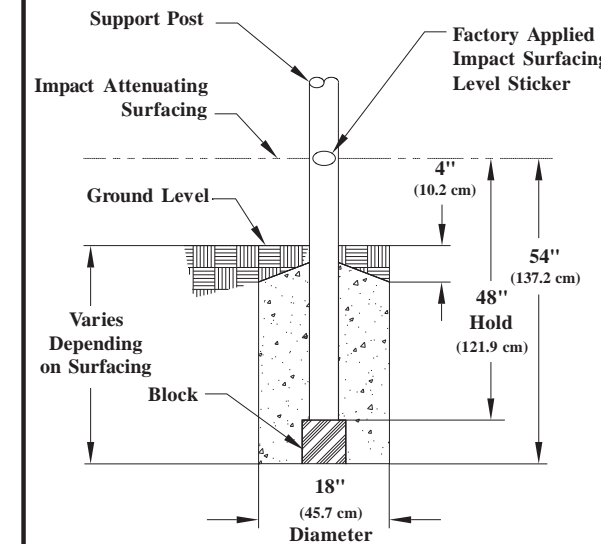
CHALLENGER

CANTILEVER POST
GROUND ZERO
MODEL CH1850

CANTILEVER POST



ASSEMBLY VIEW



FOOTING DETAIL

Footing Notes:

- A. Footing depth equals 54" less the depth of the impact attenuating surfacing material. Example: If 12" of wood mulch is used for surfacing, the footing depth would be 42".
- B. All 3-1/2" O.D. Challenger cantilever posts shall have a factory applied sticker with line designating placement of post in relationship to depth of impact attenuating surfacing on a level and clear installation site.
- C. If play unit installed on uneven terrain, maintain cantilever post mark at impact attenuating surface level at lowest grade. Adjust other footings accordingly. Cantilever Posts and all attaching decks and play components must be plumb and level.
- D. Footing size may vary due to local soil and weather conditions.
- E. Base of footing must be below frost line.
- F. Comparison of impact attenuating surfacing materials available in Playground Surfacing Technical Information Guide published by (C.P.S.C.).

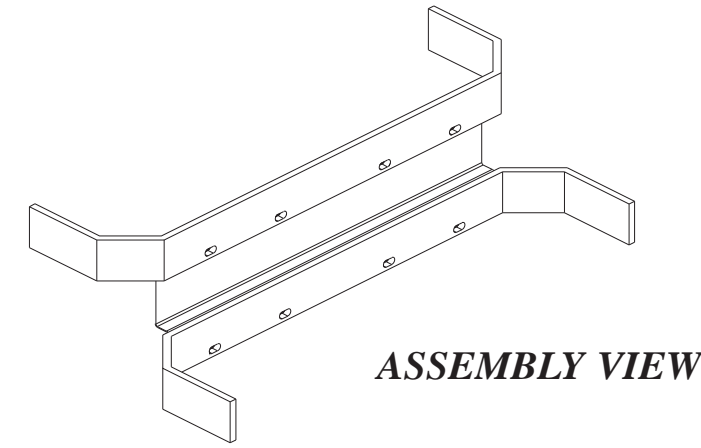


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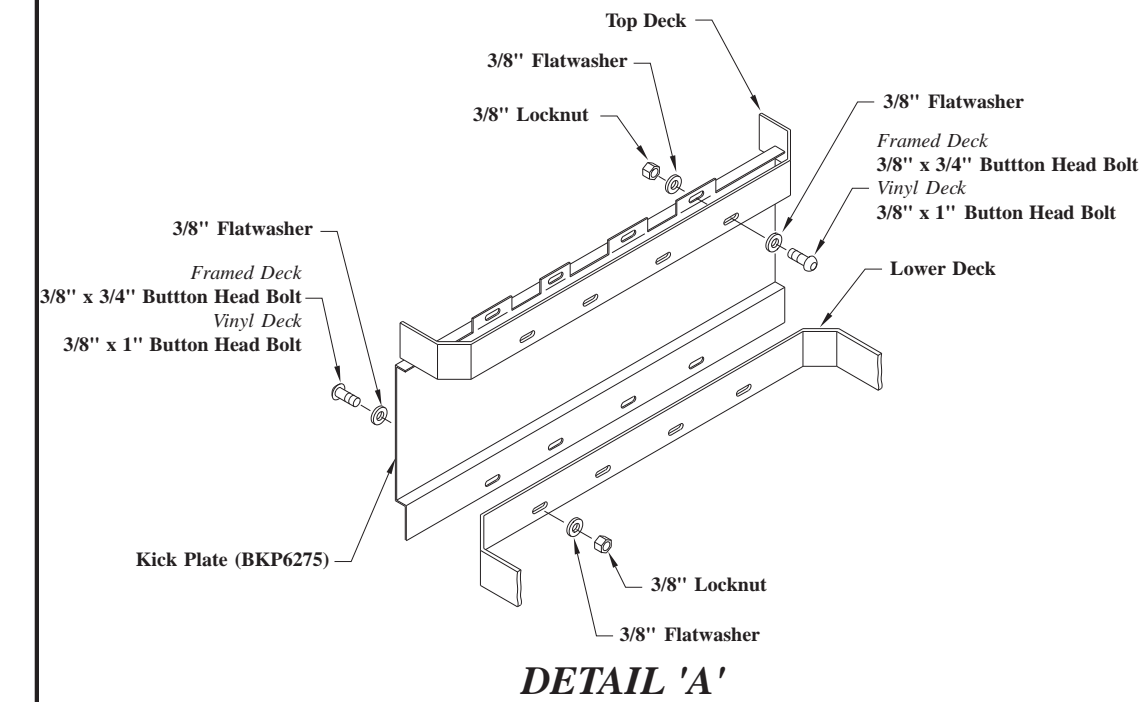
Page 1 of 2

SE1963

12" (30.5 cm) KICK PLATE
MODEL CH2530



ASSEMBLY VIEW



DETAIL 'A'



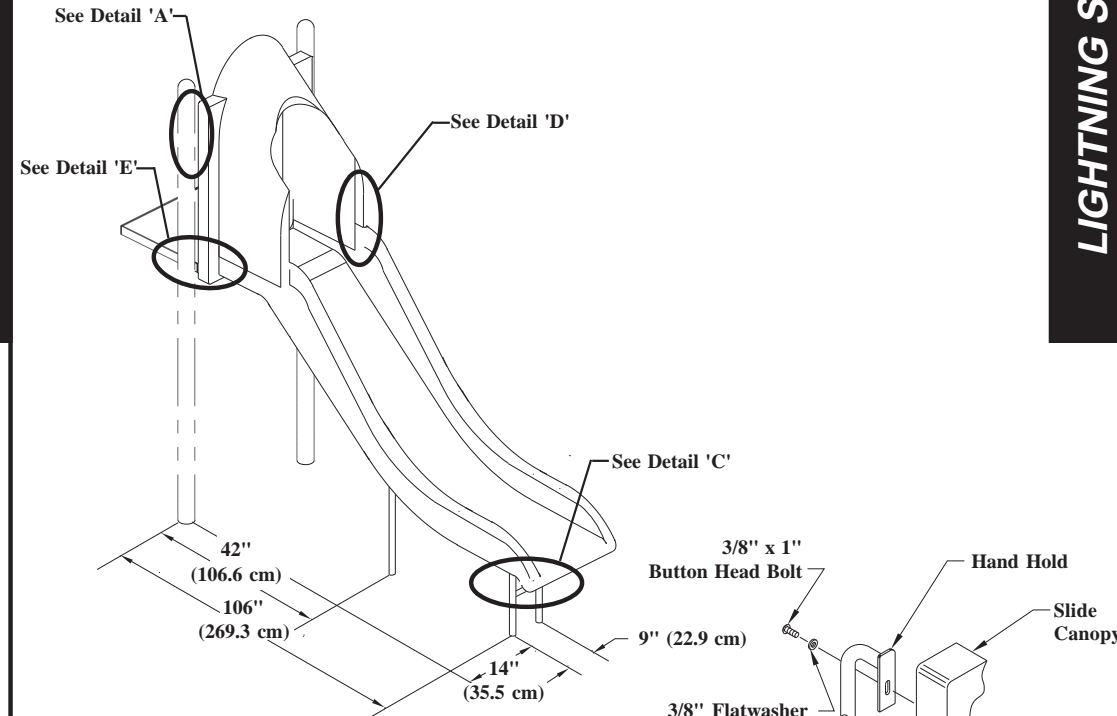
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PA429

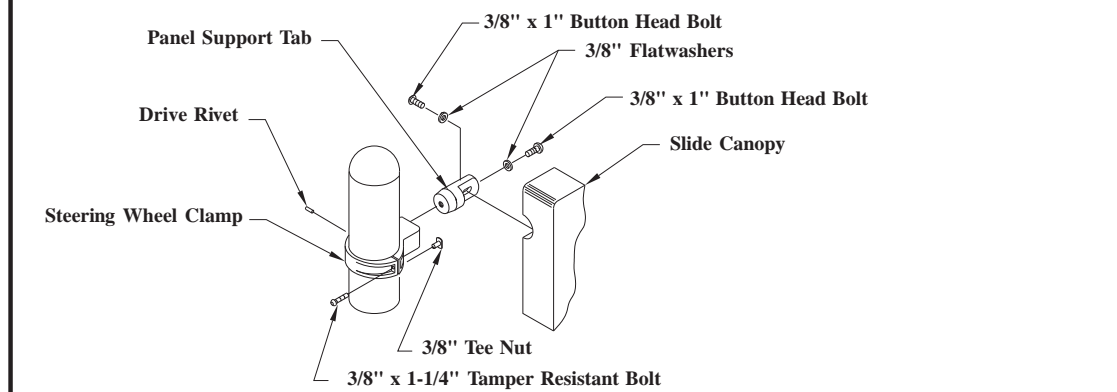
LIGHTNING SLIDE

72" (182.9 cm) DECK
MODEL CH2930



ASSEMBLY VIEW

DETAIL 'B'



DETAIL 'A'

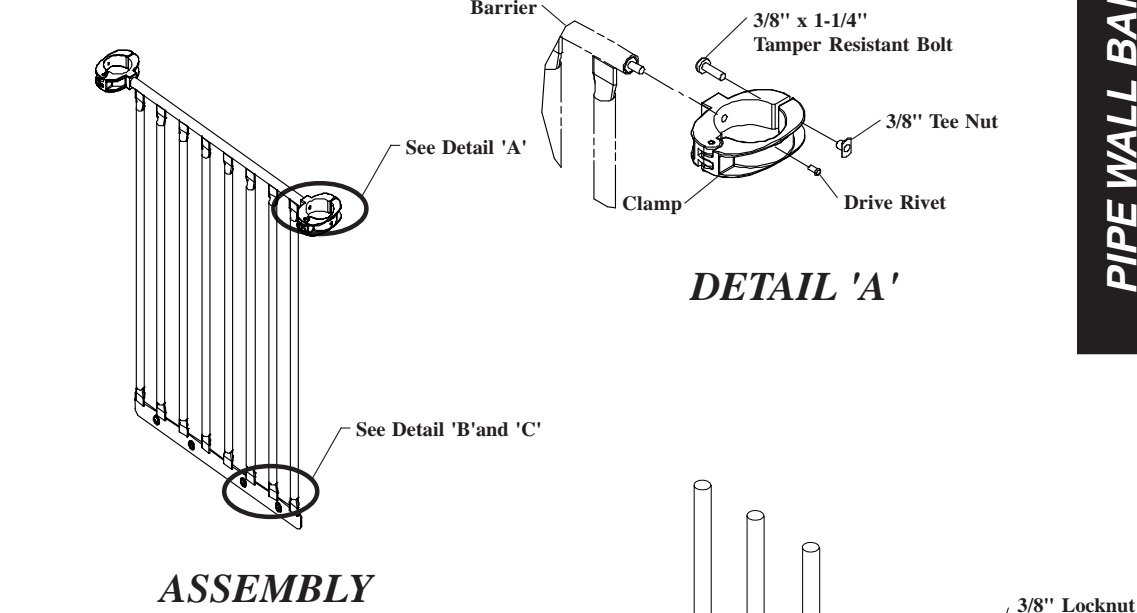


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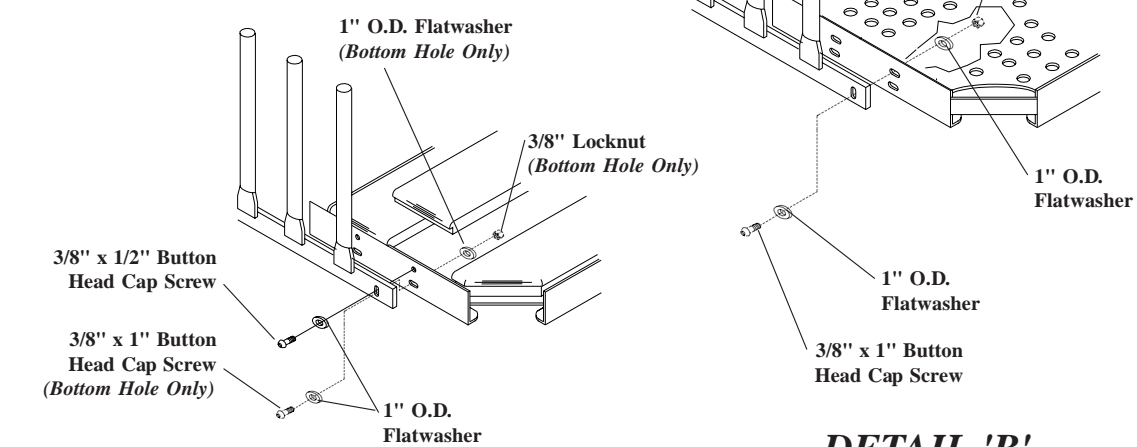
SE2014

CENTERLINE PIPE WALL BARRIER
MODEL CH4090



ASSEMBLY

DETAIL 'A'



DETAIL 'C'
Framed Deck Application

DETAIL 'B'
Vinyl Deck Application



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Page 1 of 2

SE-2166



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH5790

10 FT. (3048 mm) HORIZONTAL LOOP LADDER

Installation Preparation . . .

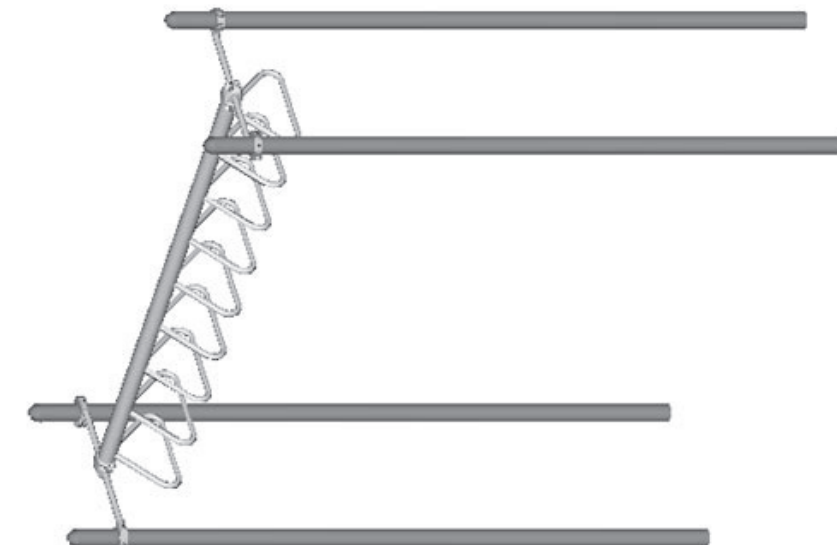
Installation Time: Approx. 1 hour
Weight: 74 Lbs. (34 Kilos)
Concrete Required: Approx. 2 cubic feet
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Assembly View



Assembly View

Installation Preparation . . .

Installation Time: Approx. 1 hour
 Weight: 27 Lbs. (12 Kilos)
 Concrete Required: Approx. .16 cubic feet
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12

Torque Specification:

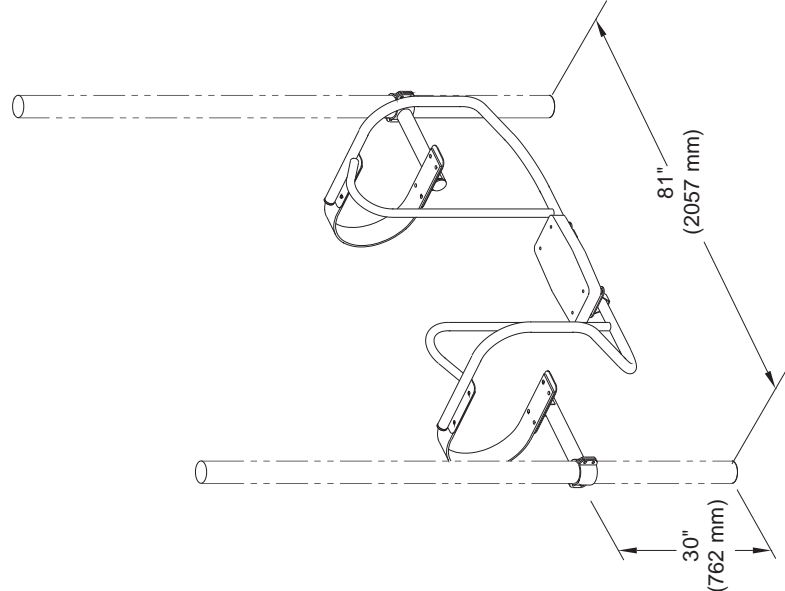
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
CHALLENGER®
MODEL CH6850
 U-BOUNCE



Assembly View

Installation Preparation . . .

Installation Time: Approx. 1 hour
 Weight: 94 Lbs. (43 Kilos)
 Concrete Required: Approx. 2 cubic feet
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12

Torque Specification:

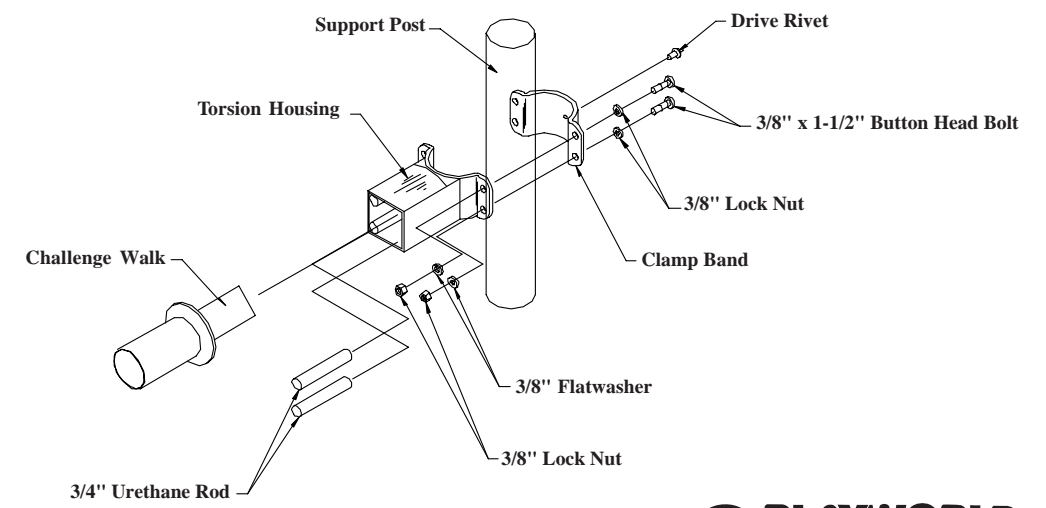
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



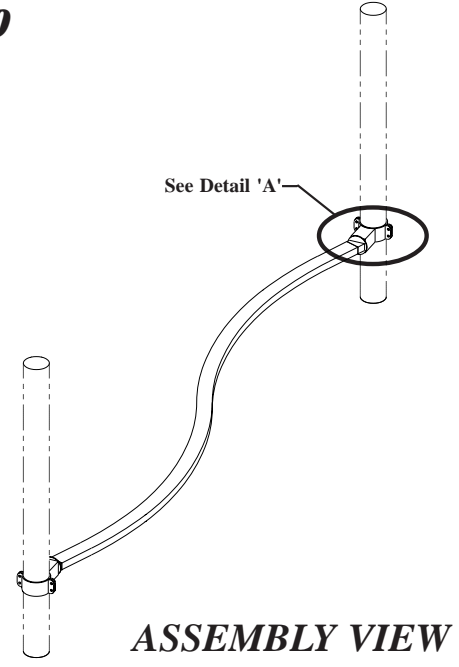
CHALLENGE WALK
MODEL CH6860



DETAIL 'A'

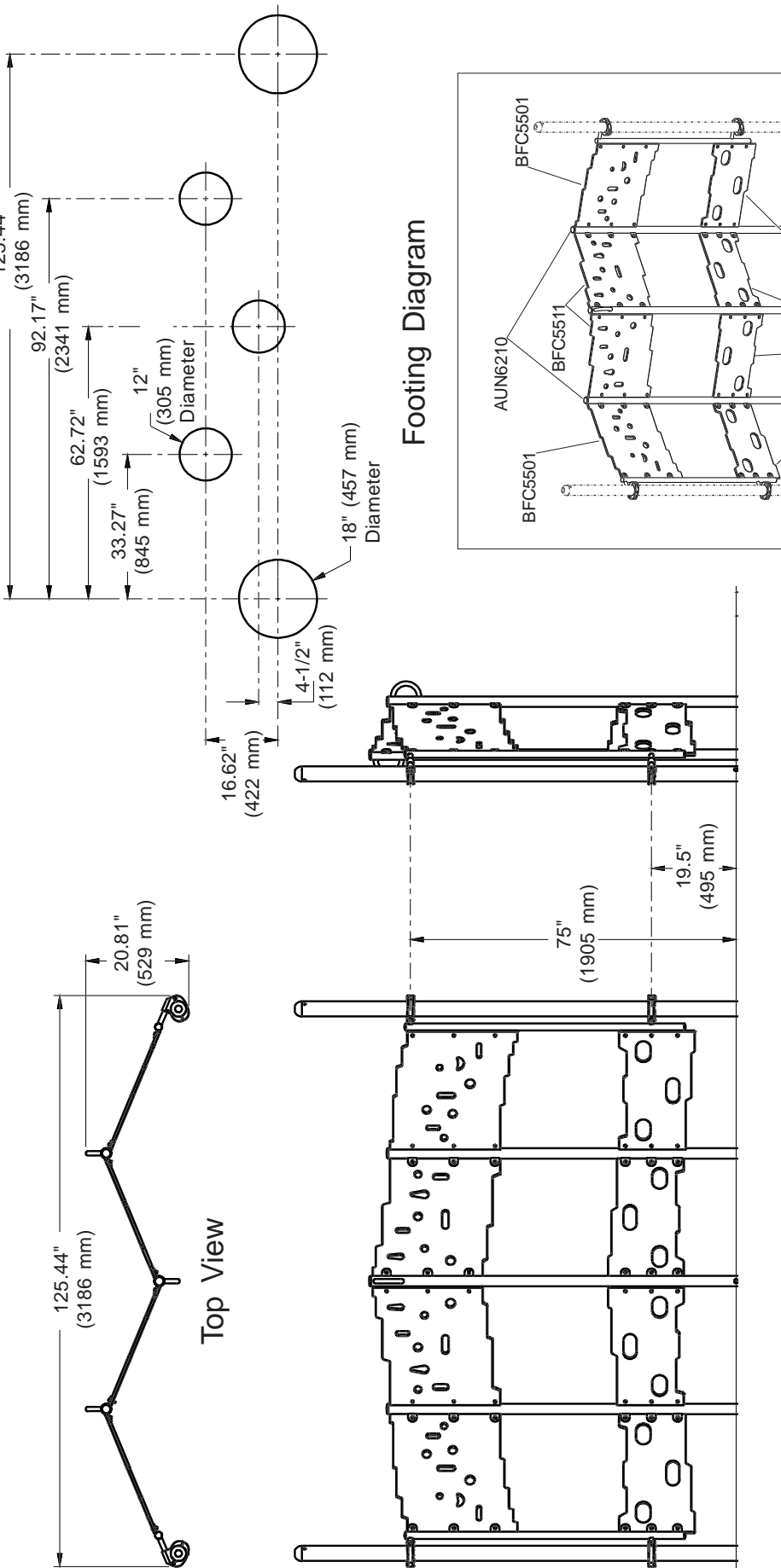


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ASSEMBLY VIEW

INSTALLATION INSTRUCTIONS



Elevation View

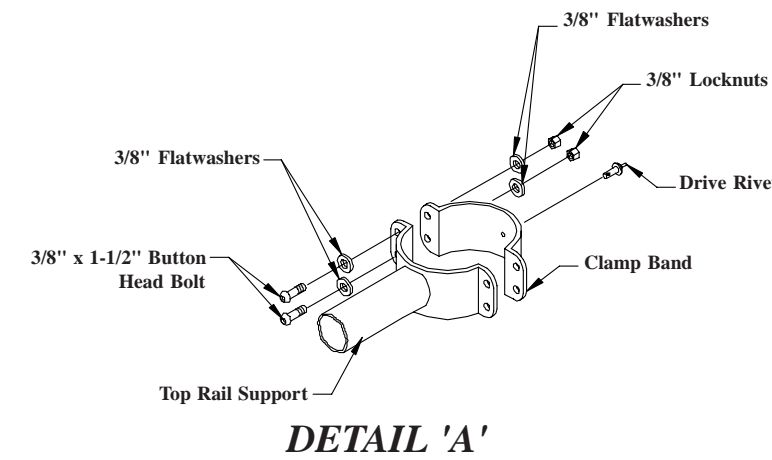
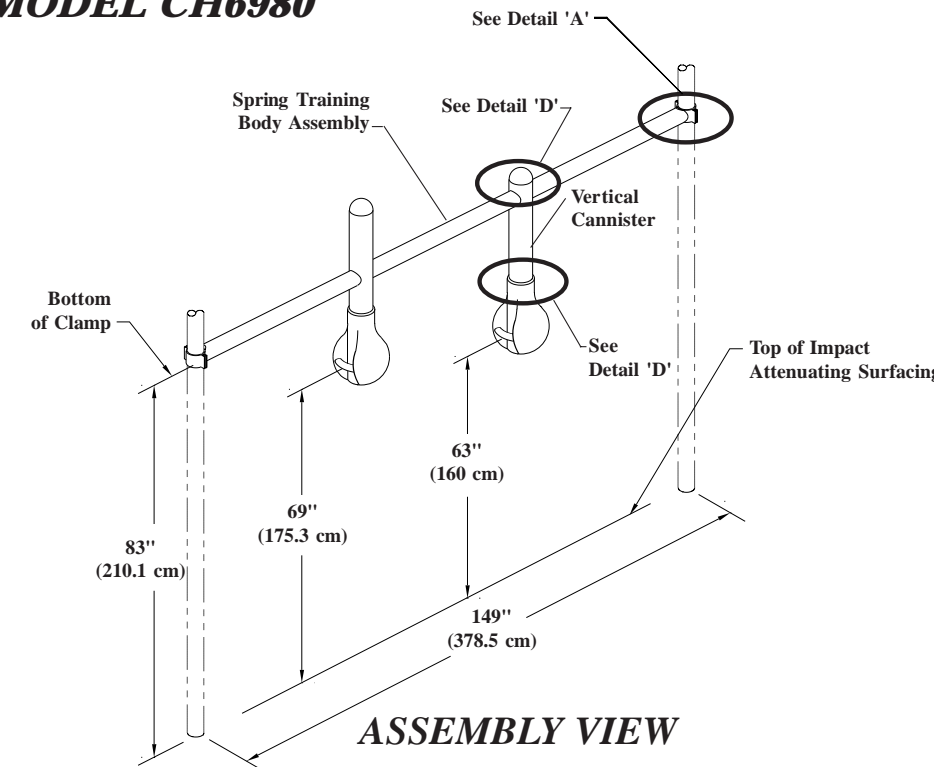
Footing Diagram

Assembly View Detail



SPRING TRAINING MODEL CH6980

GroundZero™



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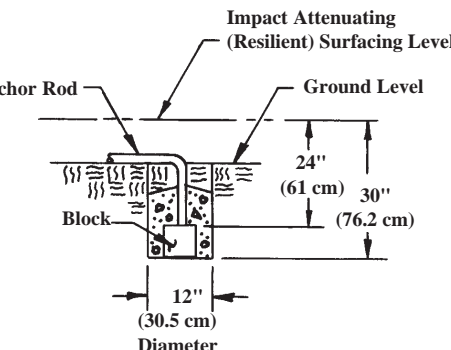
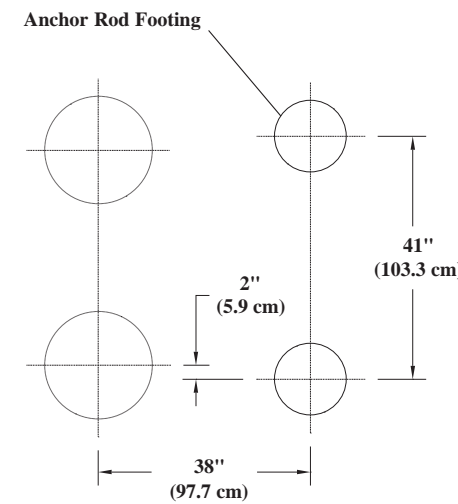
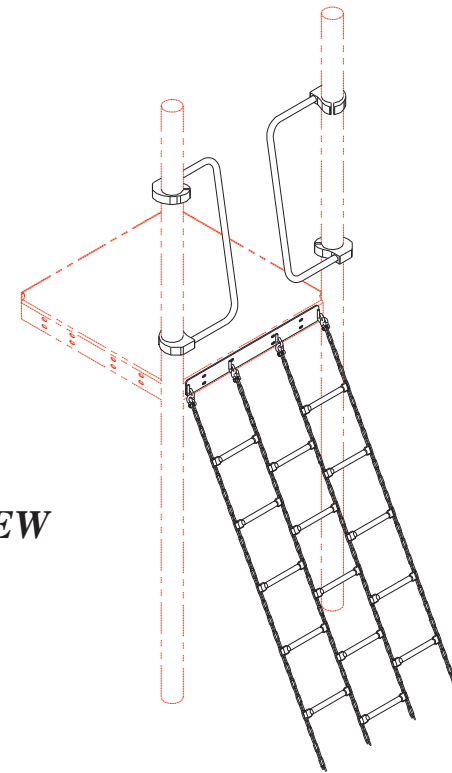
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SE2086

CHAIN NET CLIMBER 60" (152.4 cm) DECK MODEL CH7240

CHAIN NET CLIMBER

ASSEMBLY VIEW



FOOTING DIAGRAM

FOOTING DETAIL



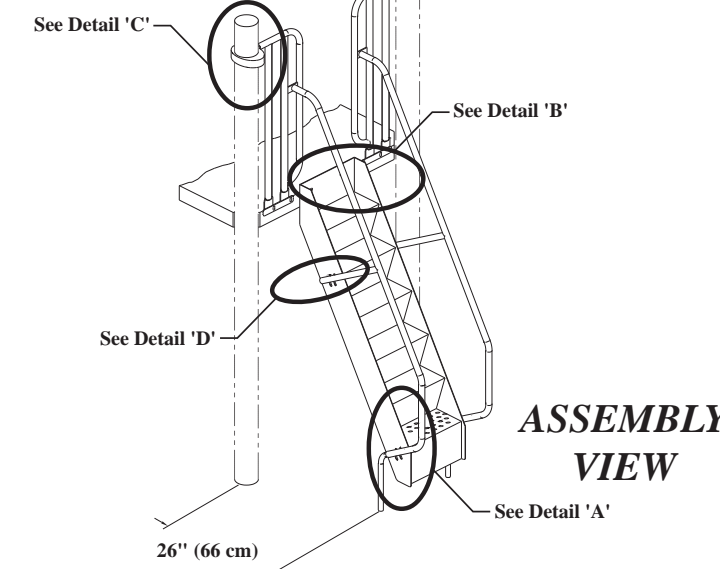
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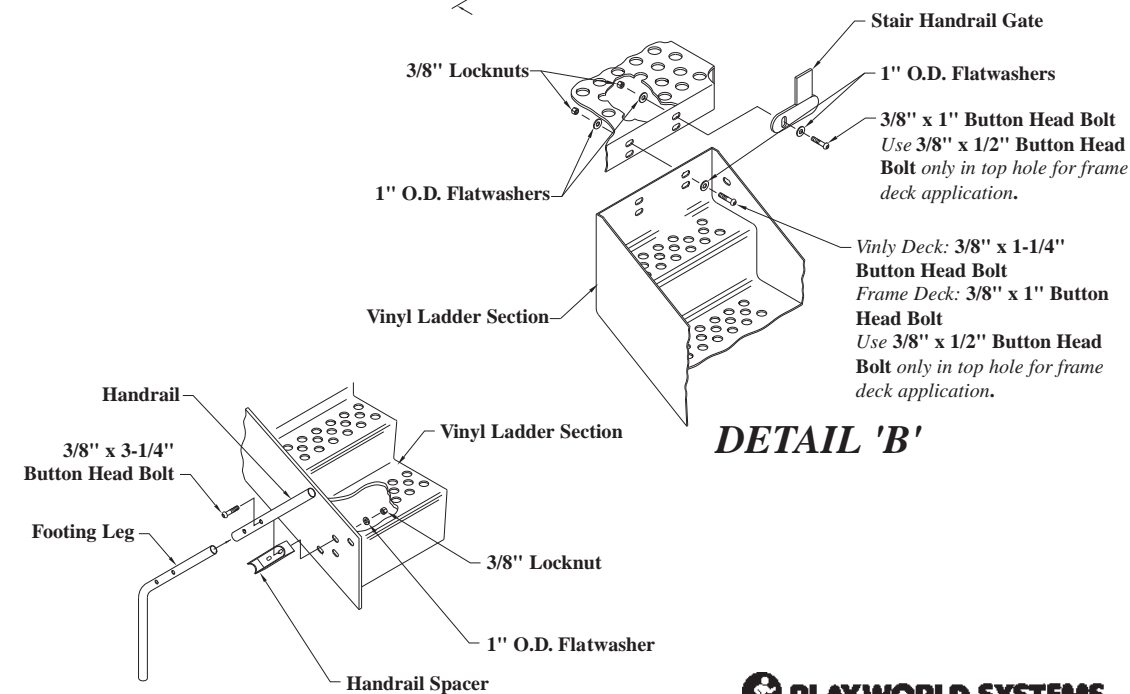
SE2139

VINYL LADDER 60" (152.4 cm) DECK MODEL CH9325

VINYL LADDER



ASSEMBLY VIEW



DETAIL 'B'

DETAIL 'A'



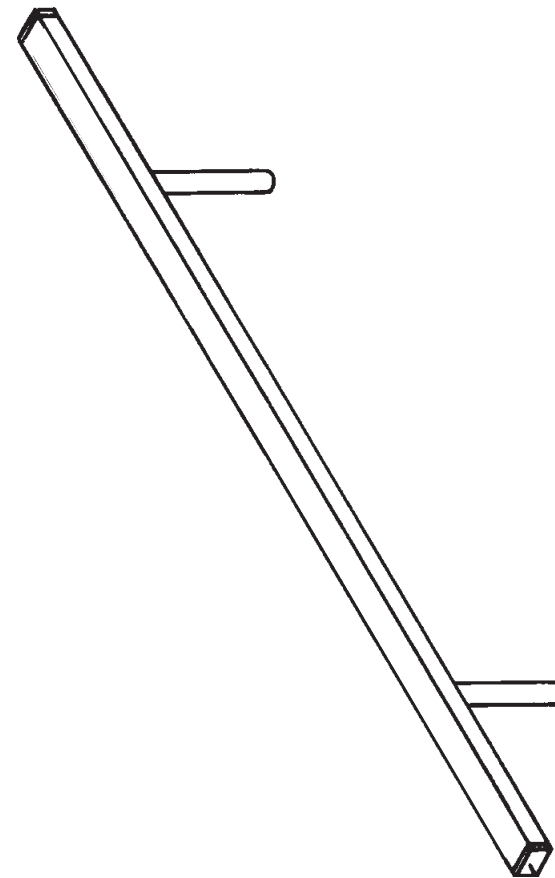
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Page 1 of 3

SE2116



INSTALLATION INSTRUCTIONS
UNIVERSAL
MODEL UN6500
DURA BALANCE BEAM



Assembly View

Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 58.5 Lbs. (26.3 Kilos)
Concrete Required: 0.11 cubic yard
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 2 - 12

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

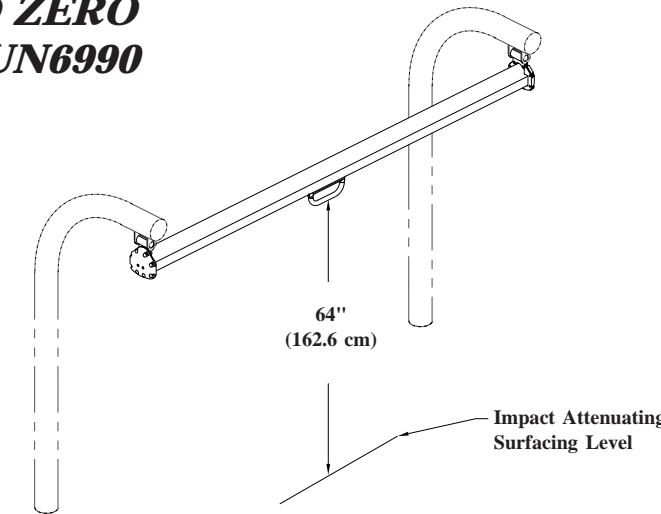
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

MONORAIL

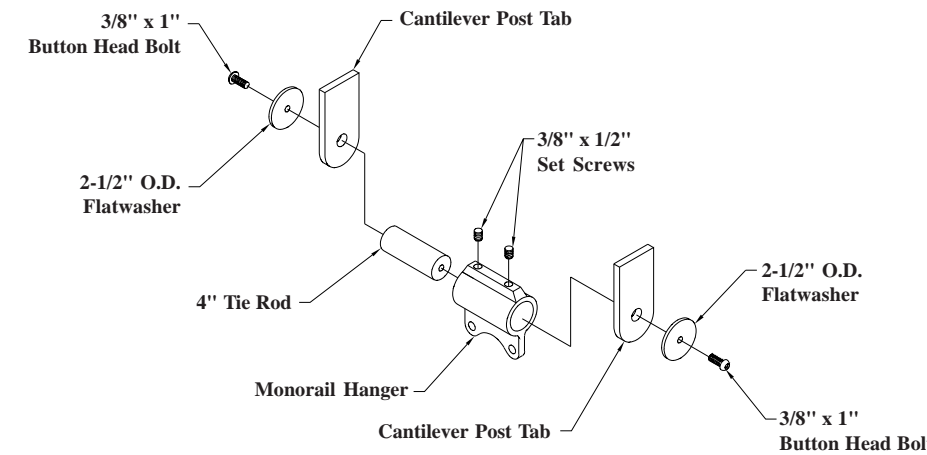
GROUND ZERO

MODEL UN6990

GroundZero™



ASSEMBLY VIEW



DETAIL 'A'



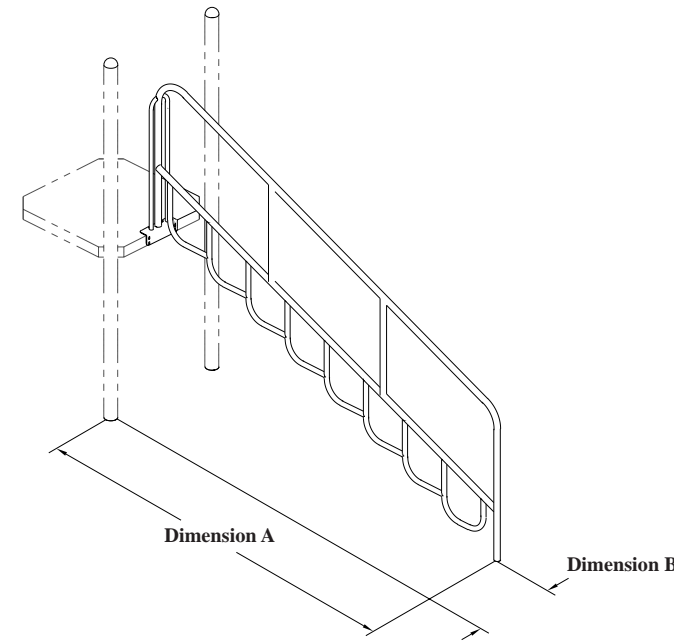
NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030
Page 1 of 3 ECN-52

MOUNTAIN CLIMBER

60" (152.4 cm) DECK

MODEL UN7640

MOUNTAIN CLIMBER



ASSEMBLY VIEW

System	Dim. A	Dim. B
Challenger	120" (304.8 cm)	18" (45.7 cm)
Playmaker	120" (304.8 cm)	24" (61 cm)
Modular Wood		
Side of Deck	117" (297.2 cm)	21" (53.3 cm)
End of Deck	123" (312.4 cm)	21" (53.3 cm)



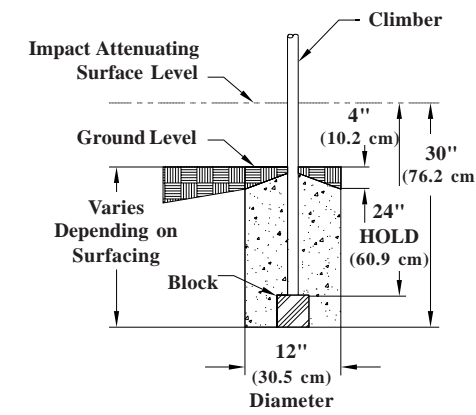
NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030
Page 1 of 3 ECN-90

TREE CLIMBER

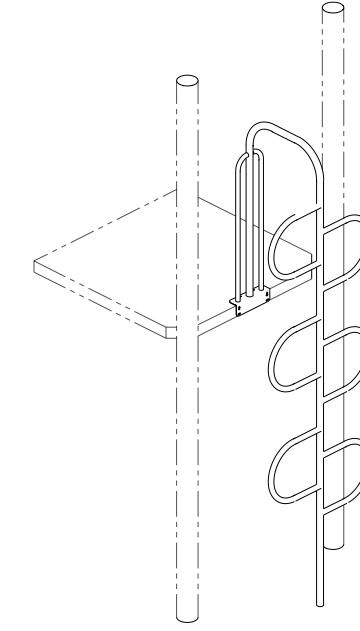
60" (152.4 cm) DECK

MODEL UN7670

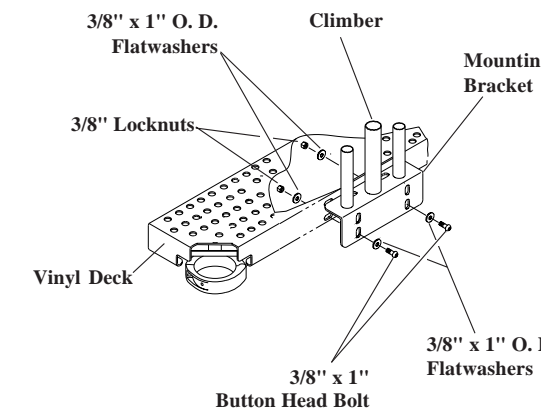
TREE CLIMBER



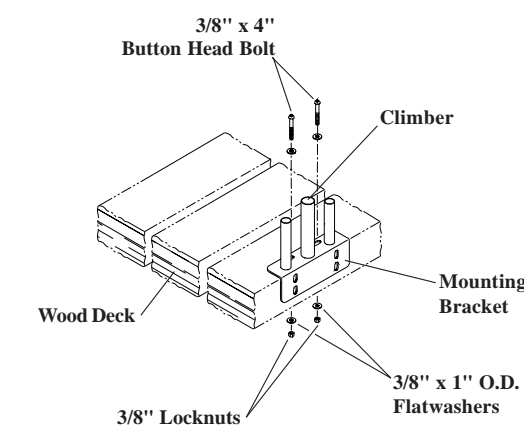
FOOTING DETAIL



ASSEMBLY VIEW



DETAIL 'A'
Vinyl Deck Application Shown



DETAIL 'B'
Modular Wood Deck Application Only
PLAYWORLD SYSTEMS
Putting The Fun Back Into Playgrounds™

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Page 1 of 2 SE-2204



INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0252
8 ft. (2438 mm) 4-UNIT STANDARD SWING

Installation Preparation . . .

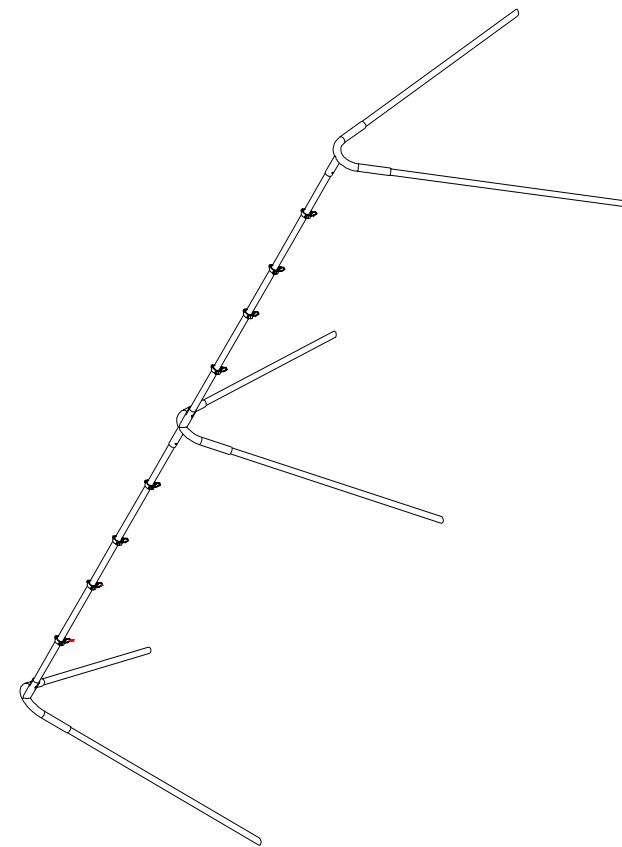
Installation Time: Approx. 4 hours
Weight: 356 Lbs. (160 Kilos)
Concrete Required: Approx. 21 cubic feet
Use Zone: 6 ft. (1829 mm) all sides
16 ft. (4877 mm) front and back of top rail
Total: 41 ft.-9 in. (12725 mm) x 32 ft. (9754 mm)
User Group: Ages 2-12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Assembly View

**PLAYWORLD SYSTEMS®
MODEL XX0260**
BELT SWING WITH GALVANIZED CHAIN

8 ft. (2438 mm) Top Rail Height



Assembly View

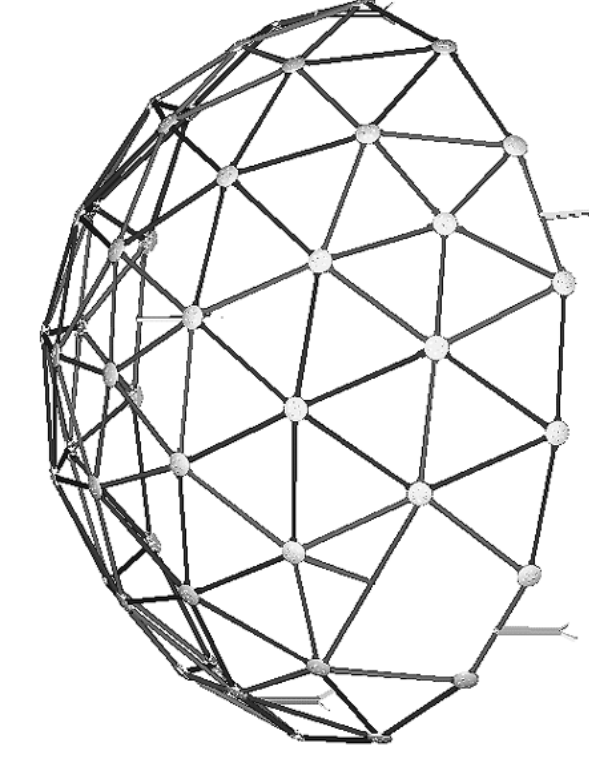
<p>Installation Preparation . . . Installation Time: Approx. 1/4 hours Weight: 6 Lbs. (3 Kilos) Use Zone: 16 ft. (4877 mm) Front and Back User Group: Ages 5 - 12 years</p>
<p>Torque Specification: Bolts & Nuts: Snug tighten and tighten an additional one-half turn. Set Screws: Snug tighten and tighten an additional full turn.</p>
<p>Maintenance . . . • Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure. • Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered. • As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.</p>

 Model XX0260
ECN-229

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INSTALLATION INSTRUCTIONS
**PLAYWORLD SYSTEMS®
MODEL XX0400**

SUPER DOME



Assembly View

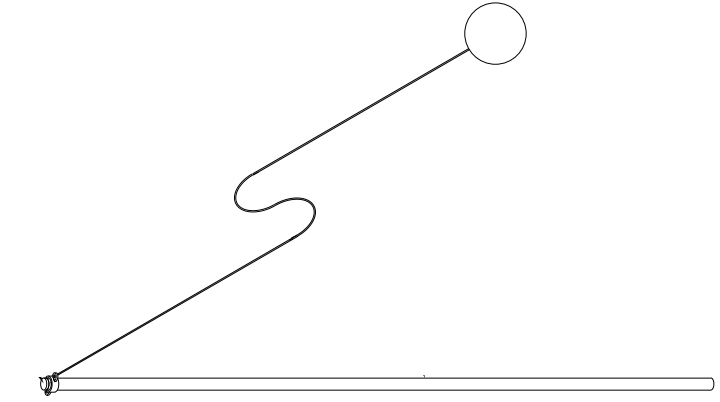
<p>Installation Preparation . . . Installation Time: Approx. 5 hours Weight: 400 Lbs. (180 Kilos) Concrete Required: Approx. 4 cubic feet Use Zone: 6 ft. (1829 mm) all sides User Group: Ages 5 - 12</p>
<p>Torque Specification: Bolts & Nuts: Snug tighten and tighten an additional one-half turn. Set Screws: Snug tighten and tighten an additional full turn.</p>
<p>Maintenance . . . • Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure. • Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered. • As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.</p>

 Model XX0400
PA-693

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INSTALLATION INSTRUCTIONS
**PLAYWORLD SYSTEMS®
MODEL XX1079**

TETHERBALL POST AND BALL



Assembly View

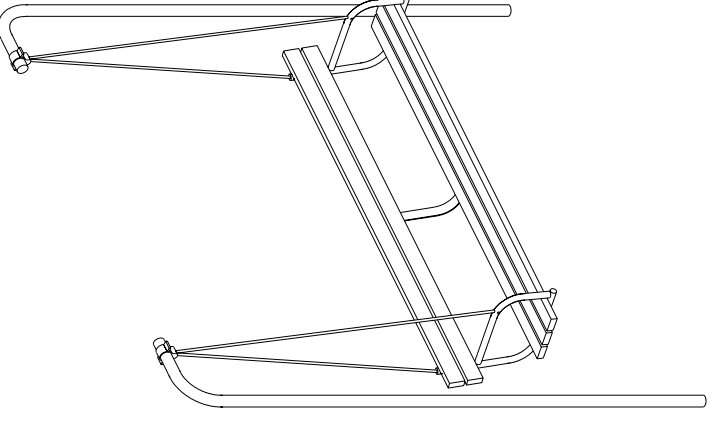
<p>Installation Preparation . . . Recommended Crew: Two (2) adults Installation Time: 1 man-hour Weight: 34.3 Lbs. (15.6 Kilos) Concrete Required: 0.14 cubic yard</p>
<p>Torque Specification: Bolts & Nuts: Snug tighten and tighten an additional one-half turn. Set Screws: Snug tighten and tighten an additional full turn.</p>
<p>Maintenance . . . • Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered. • As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.</p>

 Model XX1079
ECN0179

Page 3 of 10

INSTALLATION INSTRUCTIONS
**PLAYWORLD SYSTEMS®
MODEL XX1455**

PIPE FRAME SWINGING BENCH



Assembly View

<p>Installation Preparation . . . Recommended Crew: Two (2) adults Installation Time: 3 man-hours Weight: 130 Lbs. (58.5 Kilos) Concrete Required: .26 cubic yard Use Zone: 6 ft. (1829 mm) all sides Total: 21 ft. (6401 mm) x 32-1/2 ft. (9906 mm)</p>
<p>Torque Specification: Bolts & Nuts: Snug tighten and tighten an additional one-half turn. Set Screws: Snug tighten and tighten an additional full turn.</p>
<p>Maintenance . . . • Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure. • Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered. • As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.</p>

 Model XX1455
ECN-660

Page 3 of 12

EASTERLY PARKWAY ELEMENTARY SCHOOL



CHALLENGER

Play Structure: 034212

Part No.	Description	Qty.
ZZCH0009GZ	3-1/2" O.D. X 112" GROUNDZERO POST	2
ZZCH6860	CHALLENGE WALK	1
ZZCHGUID	CHALLENGER GUIDELINES	1
ZZUN9910	SURFACING WARNING LABEL KIT	1
ZZUN9936	MAINTENANCE BOOK	1
ZZUN9990	TOOL & ADDITIONAL PARTS KIT W/ AEROSOL	1

modular unit contains 01 active play components that will accommodate approximately 2 users take approximately 5.5 hours to install by a professional installation team of 3 people. The ular unit will also require approximately 0.25 yards of concrete for footings.

EASTERLY PARKWAY ELEMENTARY SCHOOL

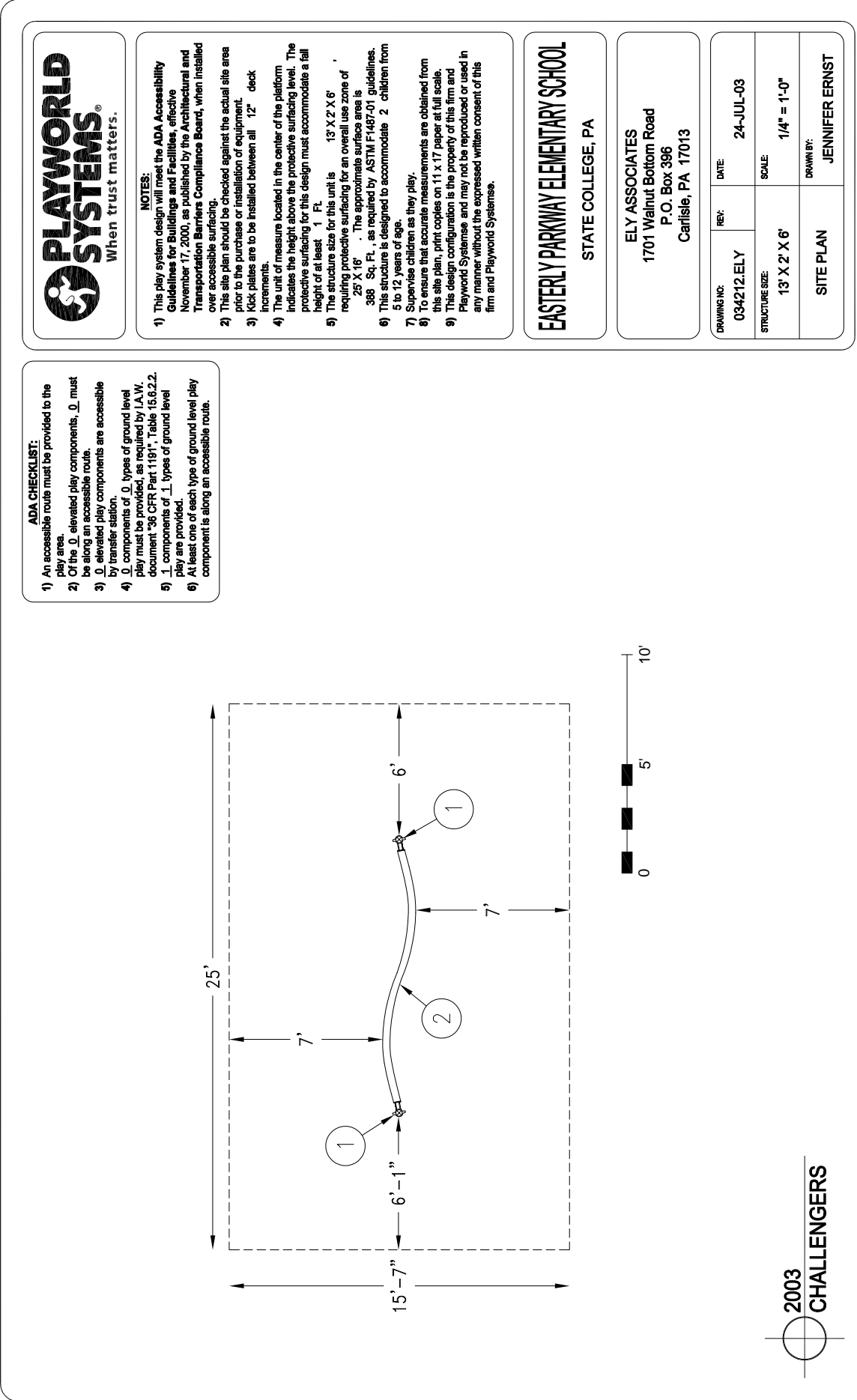


CHALLENGER

Play Structure: 033278A

Part No.	Description	Qty.
ZZCH0028	3-1/2" O.D. X 136" STEEL POST W/ RIVETED CAP	4
ZZCH0038GZ	3-1/2" O.D. X 148" GROUNDZERO POST	1
ZZCH1850	3-1/2" O.D. CANTILEVER POST FOR MONORAILS	3
ZZCH6970	CLIMB ACROSS	1
ZZCH5736	CHINNING/TURNING BAR	1
ZZCH5780	6' HORIZONTAL LOOP LADDER	1
ZZCH5960	OVERHEAD EVENT ACCESS LADDER (24" DECK)	2
ZZUN6990	MONORAIL SECTION FOR CANTILEVER POSTS	1
ZZUN7000	MONORAIL EXTENSION FOR CANTILEVER POSTS	1
ZZCH6608	LIFT-ME-UP	1
ZZCHGUID	CHALLENGER GUIDELINES	1
ZZUN9910	SURFACING WARNING LABEL KIT	1
ZZUN9930	PIPE SYSTEM MAINTENANCE KIT W/ AEROSOL	1
ZZUN9990	TOOL & ADDITIONAL PARTS KIT W/ AEROSOL	1

modular unit contains 07 active play components that will accommodate approximately 9 users take approximately 26.3 hours to install by a professional installation team of 3 people. The ular unit will also require approximately 1.34 yards of concrete for footings.



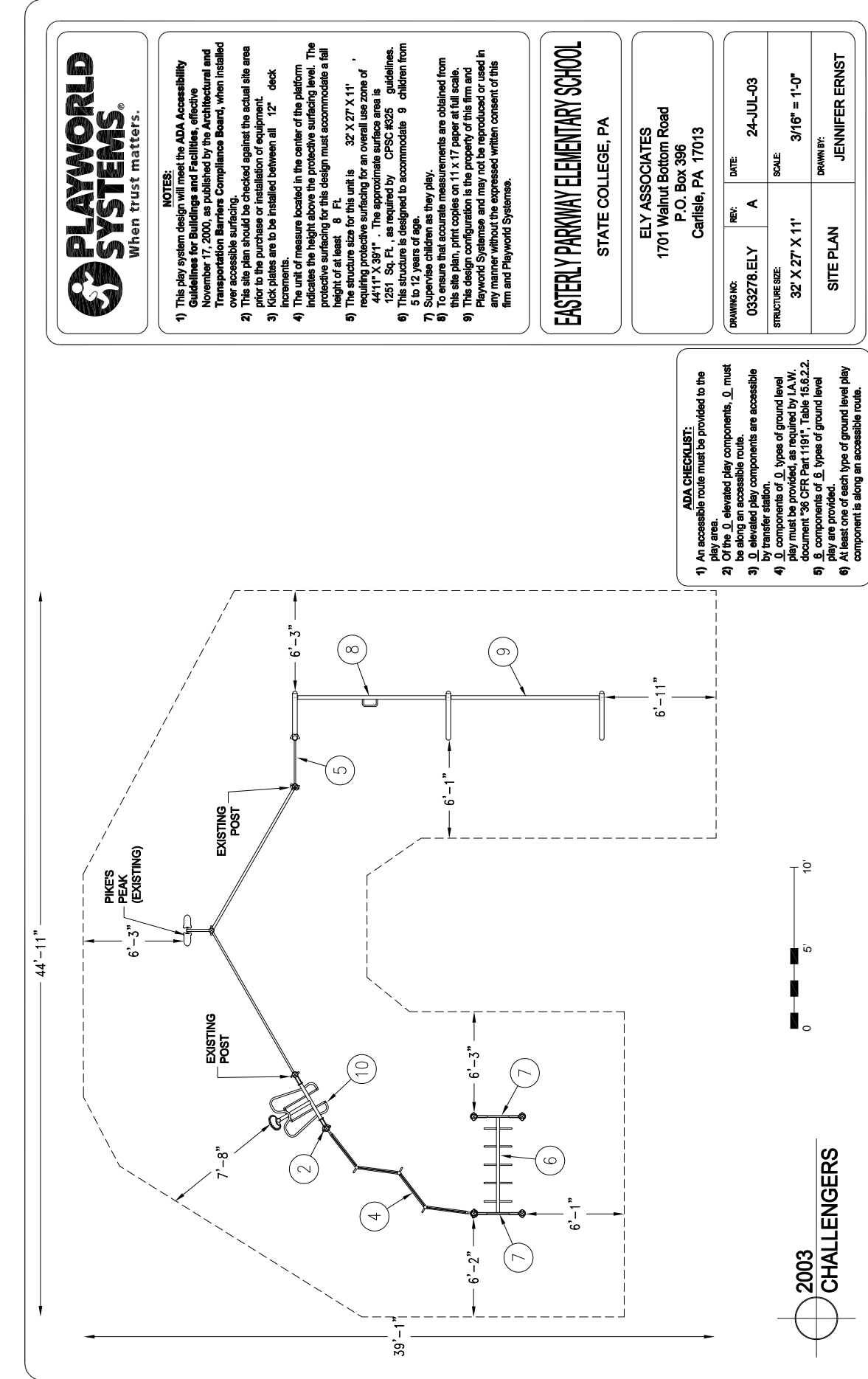
- ADA CHECKLIST:**
- 1) An accessible route must be provided to the play area.
 - 2) Of the 0, selected play components, 0, must be along an accessible route.
 - 3) 0, selected play components are accessible by transfer station.
 - 4) 0, components of 0, types of ground level play are provided.
 - 5) 1, components of 1, types of ground level play are provided.
 - 6) component is along an accessible route.

- NOTES:**
- 1) The play system design will meet the ADA Accessibility Guidelines for Buildings and Facilities, effective November 17, 2000, as published by the Architectural and Transportation Barriers Compliance Board, when installed prior to the purchase or installation of equipment.
 - 2) Kick plates are to be installed between all 12" increments.
 - 3) The unit of measure located in the center of the platform indicates the height above the protective surfacing level. The protective surfacing for this design must accommodate a fall height of at least 9" FL.
 - 4) The structure size for this unit is 13' X 2' X 6'.
 - 5) The approximate square footage is 258.00 sq. ft.
 - 6) The structure is designed to accommodate 2 children from 5 to 12 years of age.
 - 7) Supervise children as they play.
 - 8) To ensure that accurate measurements are obtained from this site plan, print copies on 11 x 17" paper at full scale.
 - 9) The design configuration is the property of this firm and Playworld Systems and may not be reproduced or used in any manner without the expressed written consent of this firm and Playworld Systems.

EASTERLY PARKWAY ELEMENTARY SCHOOL
STATE COLLEGE, PA

ELY ASSOCIATES
1701 Walnut Bottom Road
P.O. Box 396
Carlisle, PA 17013

DRAWING NO: 034212ELY
REF: 24-JUL-03
DATE: 24-JUL-03
SCALE: 1/4" = 1'-0"
STRUCTURE SIZE: 13' X 2' X 6"
SITE PLAN
DRAWN BY: JENNIFER ERNST



- ADA CHECKLIST:**
- 1) An accessible route must be provided to the play area.
 - 2) Of the 0, selected play components, 0, must be along an accessible route.
 - 3) 0, selected play components are accessible by transfer station.
 - 4) 0, components of 0, types of ground level play are provided, as required by I.A.V.
 - 5) 0, components of 0, types of ground level play are provided.
 - 6) At least one of each type of ground level play component is along an accessible route.

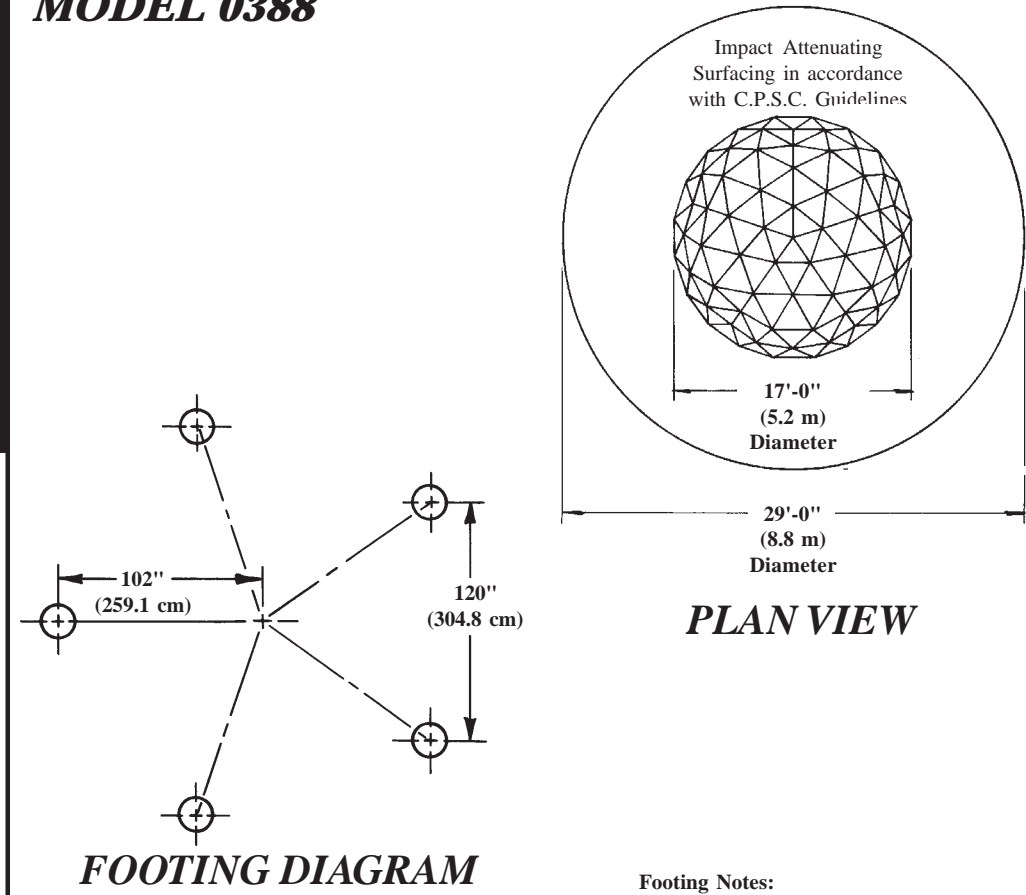
EASTERLY PARKWAY ELEMENTARY SCHOOL
STATE COLLEGE, PA

ELY ASSOCIATES
1701 Walnut Bottom Road
P.O. Box 396
Carlisle, PA 17013

DRAWING NO: 033278ELY
REF: A
DATE: 24-JUL-03
SCALE: 3/16" = 1'-0"
STRUCTURE SIZE: 32' X 27' X 11"
SITE PLAN
DRAWN BY: JENNIFER ERNST

SUPER DOME CLIMBER MODEL 0388

SUPER DOME



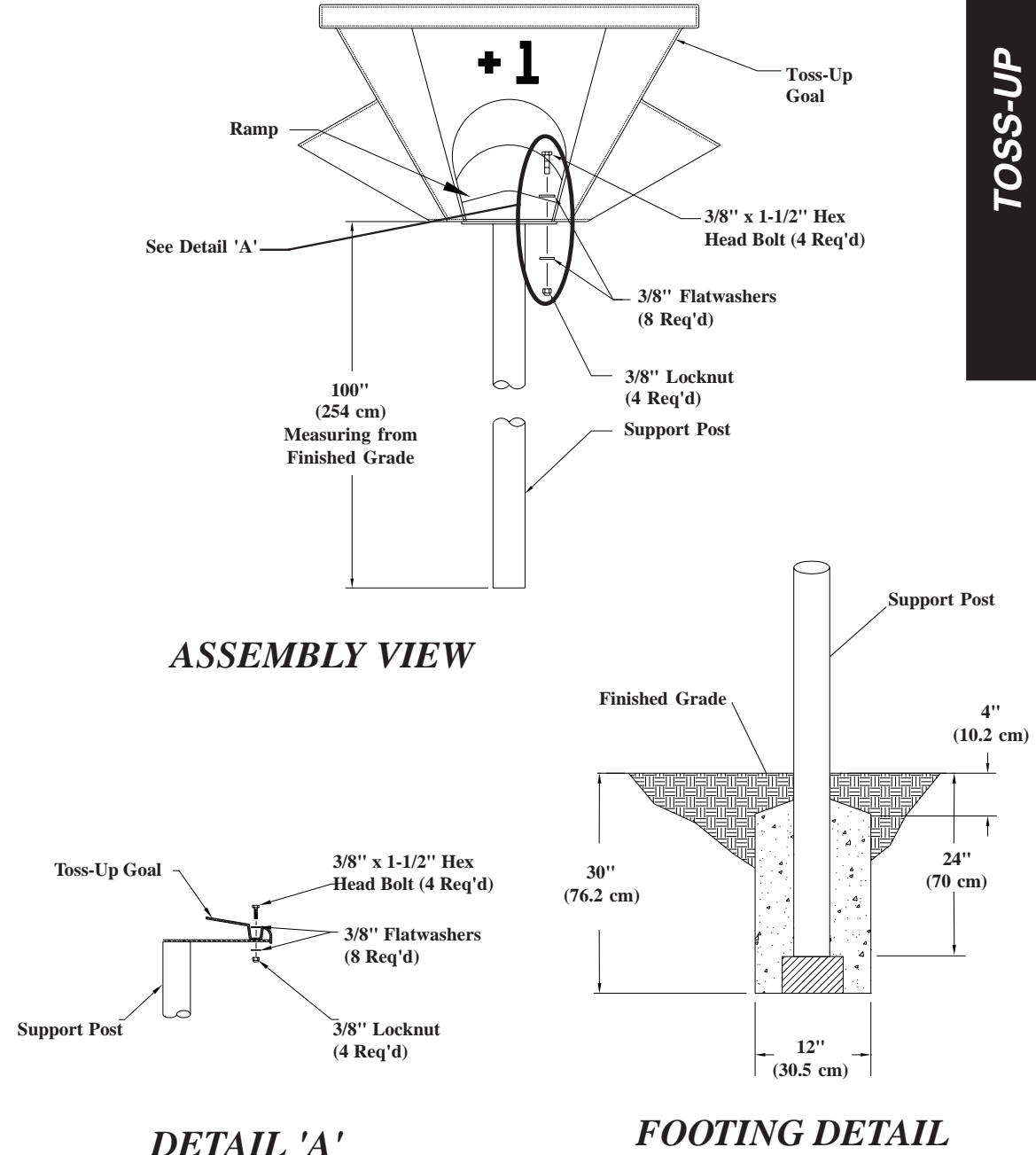
Footings Notes:
 A. If play unit is installed on uneven terrain, maintain support post mark at impact attenuating surface level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
 B. Footing size may vary due to local soil and weather conditions.
 C. Base of footing must be below frost line.
 D. Comparison of impact attenuating surfacing materials available in Playground Surfacing Technical Information Guide published by (C.P.S.C.).



NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030
 Page 3 of 10 SE-2156

TOSS-UP MODEL 1050

TOSS-UP



NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030
 Page 1 of 2 SE1712



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0028
 136 in. (3454 mm) STEEL SUPPORT POST WITH CAP

<p>Installation Preparation . . . Recommended Crew: Two (2) adults Installation Time: 0.5 man-hour Weight: 43.5 Lbs. (19.8 Kilos) Concrete Required: 0.13 cubic yard</p>	<p>Torque Specification: Bolts & Nuts: Snug tighten and tighten an additional one-half turn. Set Screws: Snug tighten and tighten an additional full turn.</p>	<p>Maintenance . . . Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure. Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered. As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.</p>
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Model CH0028 ECN-343
 Page 1 of 4



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0038GZ
 GROUNDZERO® 148 in. (3759 mm)
 STEEL SUPPORT POST WITH CAP

<p>Installation Preparation . . . Recommended Crew: Two (2) adults Installation Time: 1 man-hour Weight: 47 Lbs. (21.2 Kilos) Concrete Required: 0.18 cubic yard</p>	<p>Torque Specification: Bolts & Nuts: Snug tighten and tighten an additional one-half turn. Set Screws: Snug tighten and tighten an additional full turn.</p>	<p>Maintenance . . . Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure. Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered. As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.</p>
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Model CH0038GZ ECN-343

Page 1 of 4



INSTALLATION INSTRUCTIONS

**CHALLENGERS®
MODEL CH1850
CANTILEVER POST**



Assembly View



Page 1 of 5

Model CH1850
ECN-343



Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 78.2 Lbs. (35.2 Kilos)
Concrete Required: .18 cubic yards

Torque Specification:

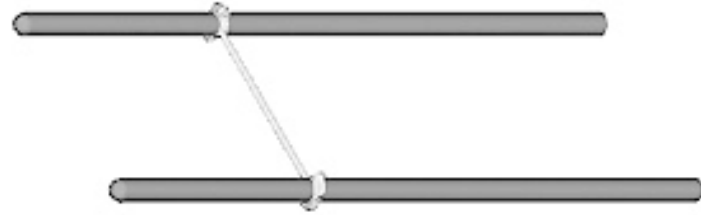
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



**INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH5736
CHINNING / TURNING BAR**



Assembly View

Installation Preparation . . .
Recommended Crew: One (1) adult
Installation Time: .5 man-hour
Weight: 5.9 Lbs. (2.7 Kilos)
Use Zone: 72 in. (1829 mm) all sides
User Group: Ages 6 and up

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

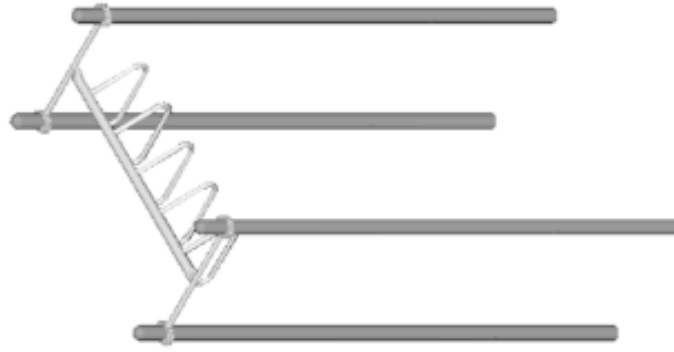
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Page 1 of 5

Model CH5736
ECN-817



**INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH5780
6 ft. (1829 mm) HORIZONTAL LOOP LADDER**



Assembly View

Installation Preparation . . .
Recommended Crew: Three (3) adults
Installation Time: 1 man-hour
Weight: 55.7 Lbs. (25.3 Kilos)
Use Zone: 72 in. (1829 mm) all sides
User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

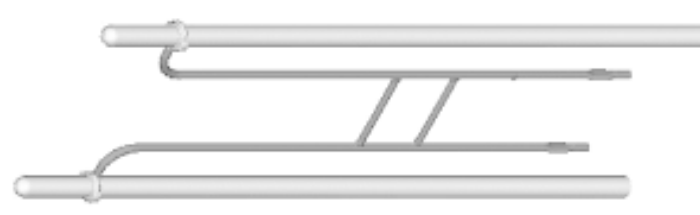
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Page 1 of 5

Model CH5780
ECN-602



**INSTALLATION INSTRUCTIONS
CHALLENGERS™
MODEL CH5960
OVERHEAD EVENT ACCESS LADDER
(2) Rungs**



Assembly View

Installation Preparation . . .
Recommended Crew: One (1) adult
Installation Time: Approx. 1-1/2 hour
Weight: 26 Lbs. (12 Kilos)
Concrete Required: Approx. .06 cubic yard
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 5 - 12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

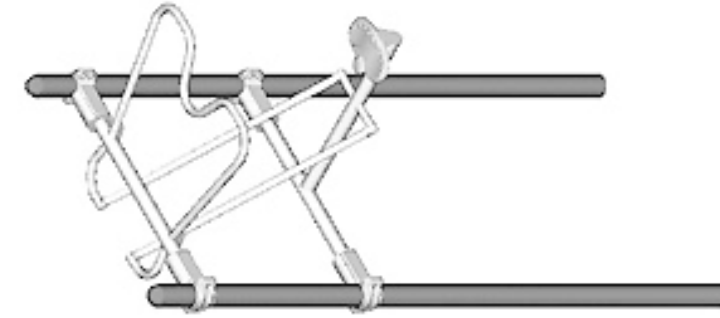
Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Page 1 of 5

Model CH5960
ECN-605





Assembly View



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH6608
LIFT-ME-UP

Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Weight: 94 Lbs. (42.7 Kilos)
Use Zone: 84 in. (2134 mm) behind seat
72 in. (1829 mm) other sides
User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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Assembly View



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH6860
CHALLENGE WALK

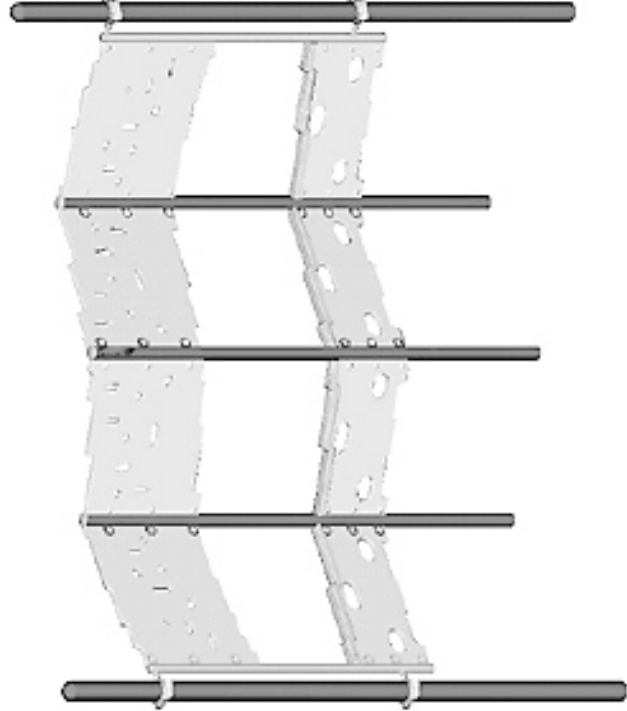
Installation Preparation . . .
Recommended Crew: One (1) adult
Installation Time: 1 hour
Weight: 60 Lbs. (27.3 Kilos)
Use Zone: 84 in. (2134 mm) all sides
User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
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- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Assembly View



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH6970
CLIMB ACROSS

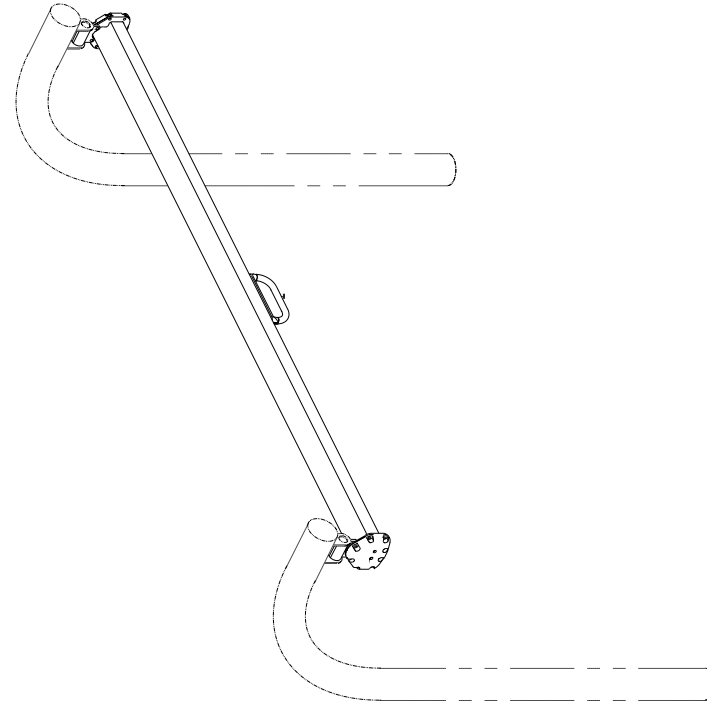
Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 3.5 man-hours
Weight: 232.7 Lbs. (105.8 Kilos)
Concrete Required: .09 cubic yard
Use Zone: 72 in. (1829 mm) all sides
User Group: Ages 5 - 12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Assembly View



INSTALLATION INSTRUCTIONS
UNIVERSAL
MODEL UN6990
MONORAIL

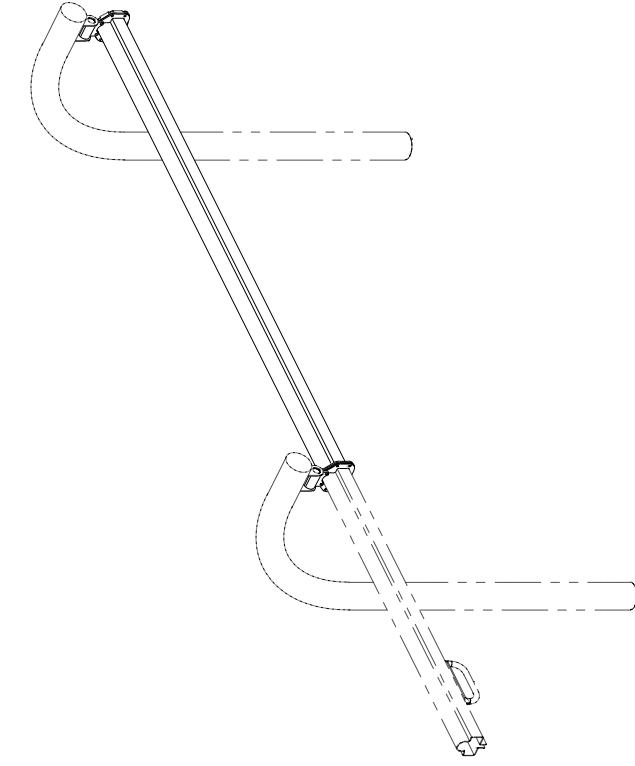
Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Weight: 59.9 Lbs. (27 Kilos)
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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Assembly View



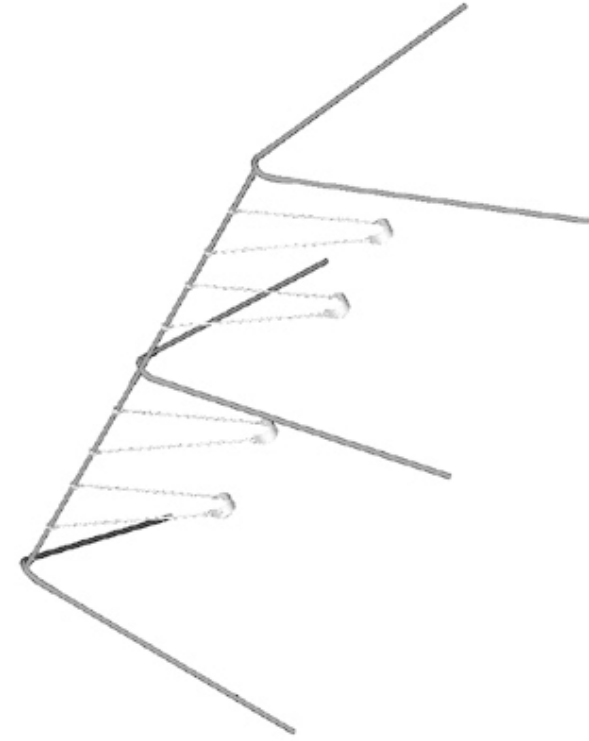
INSTALLATION INSTRUCTIONS
UNIVERSAL
MODEL UN9910
 SURFACING WARNING LABEL

WARNING
 INSTALLATION OVER
 A HARD SURFACE
 SUCH AS CONCRETE,
 ASPHALT, OR PACKED
 EARTH MAY RESULT
 IN SERIOUS INJURY
 OR DEATH FROM
 FALLS.

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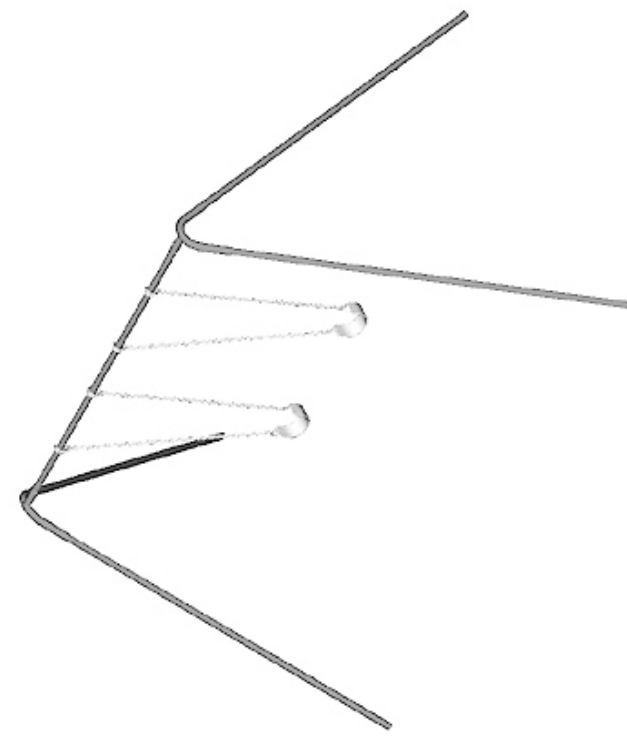
INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0231
 10 ft. (3048 mm) STANDARD DUTY SWING
 ADD-A-BAY



Assembly View



INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0249
 10 ft. (3048 mm) 2-UNIT STANDARD SWING



Assembly View



Installation Preparation . . .
 Recommended Crew: One (1) adult
 Installation Time: 1 hour
 Weight: 42 Lbs. (19.1 Kilos)
 Use Zone: 72 in. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Installation Preparation . . .

Recommended Crew: One (1) adult
 Installation Time: 15 to 20 minutes

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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Installation Preparation . . .

Recommended Crew: Three (3) adults
 Installation Time: 1.5 man-hours
 Weight: 148.7 Lbs. (67.6 Kilos)
 Concrete Required: 0.26 cubic yard
 Use Zone: See page 1 for Swing Use Zone information.
 User Group: Ages 2-12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
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Assembly View

INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0261
 BELT SWING WITH GALVANIZED CHAIN
 10 ft. (3048 mm) Top Rail Height

Installation Preparation . . .

Recommended Crew: One (1) adult
 Installation Time: .25 hour
 Weight: 9.5 lbs. (4.3 Kilos)
 Use Zone: 40 ft. (12192 mm) Total Front and Back
 User Group: Ages 5 and up

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

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PLAYWORLD SYSTEMS®
 The world needs play.™



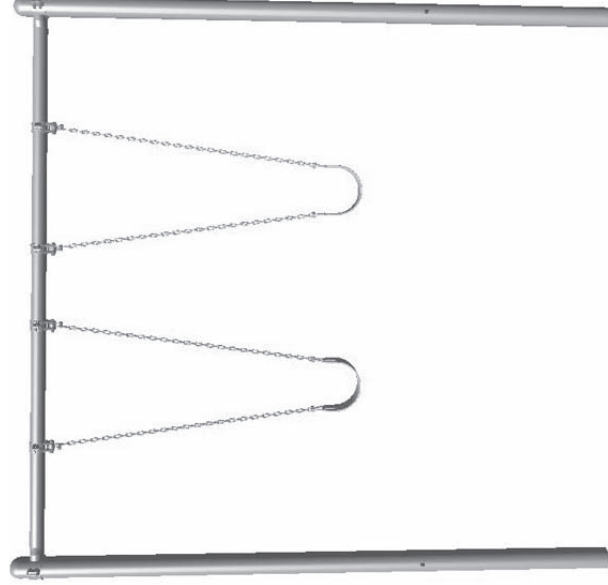
Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Model Number	Weight	Top Rail Height
ZZXX0324	10.9 Lbs. (4.9 Kilos)	7 ft. (2134 mm)
ZZXX0260	8.3 Lbs. (3.8 Kilos)	8 ft. (2440 mm)
ZZXX0261	9.5 Lbs. (4.3 Kilos)	10 ft. (3050 mm)



PLAYWORLD SYSTEMS®
 The world needs play.™



Assembly View (representative structure)

Installation Instructions
 Playworld Systems® Model XX0295
 Single Post Swing Assembly
 8 ft. (2438 mm)

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 installation hours
 Weight: 264.6 Lbs. (120.3 Kilos)
 Concrete Required: 0.36 cubic yard (0.28 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 1.5-12, EN: 2-14

ICON KEY

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0397
 FREE STANDING PIKES PEAK

Installation Preparation . . .

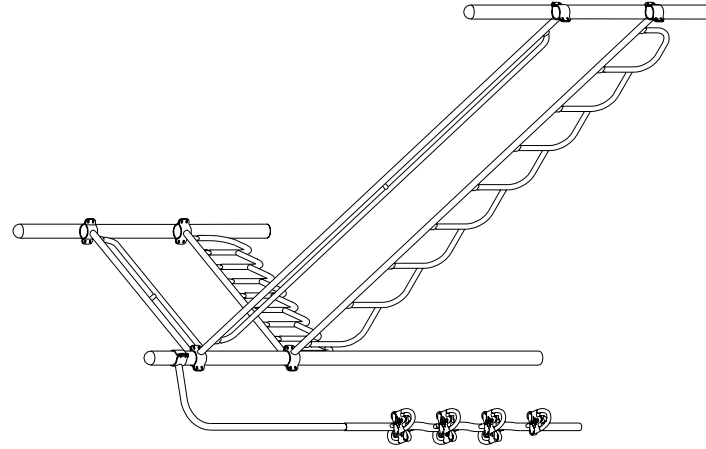
Installation Time: Approx. 4 hours
 Weight: 308 Lbs. (139 Kilos)
 Concrete Required: Approx. 1.1 cubic feet
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

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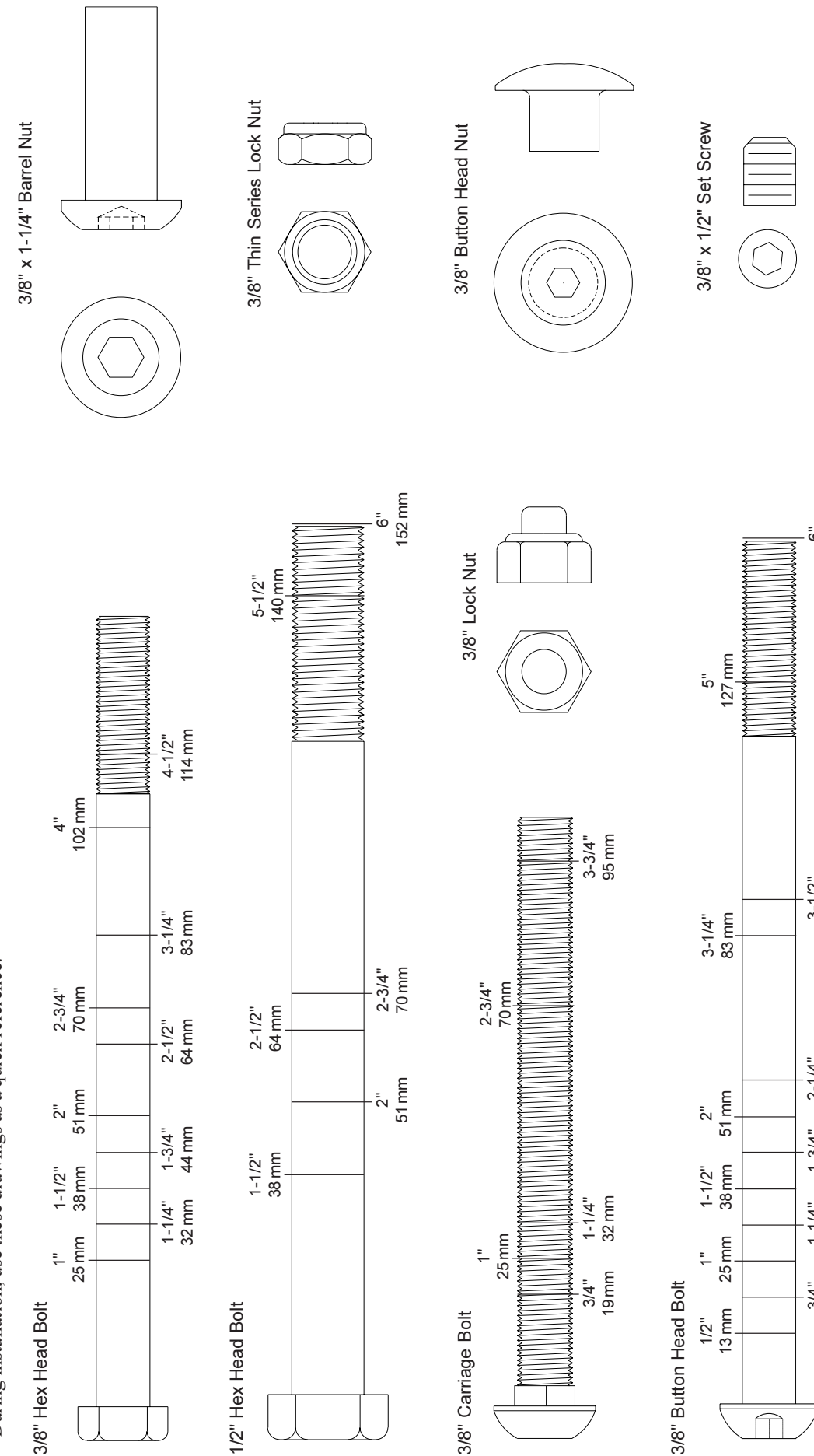


Assembly View



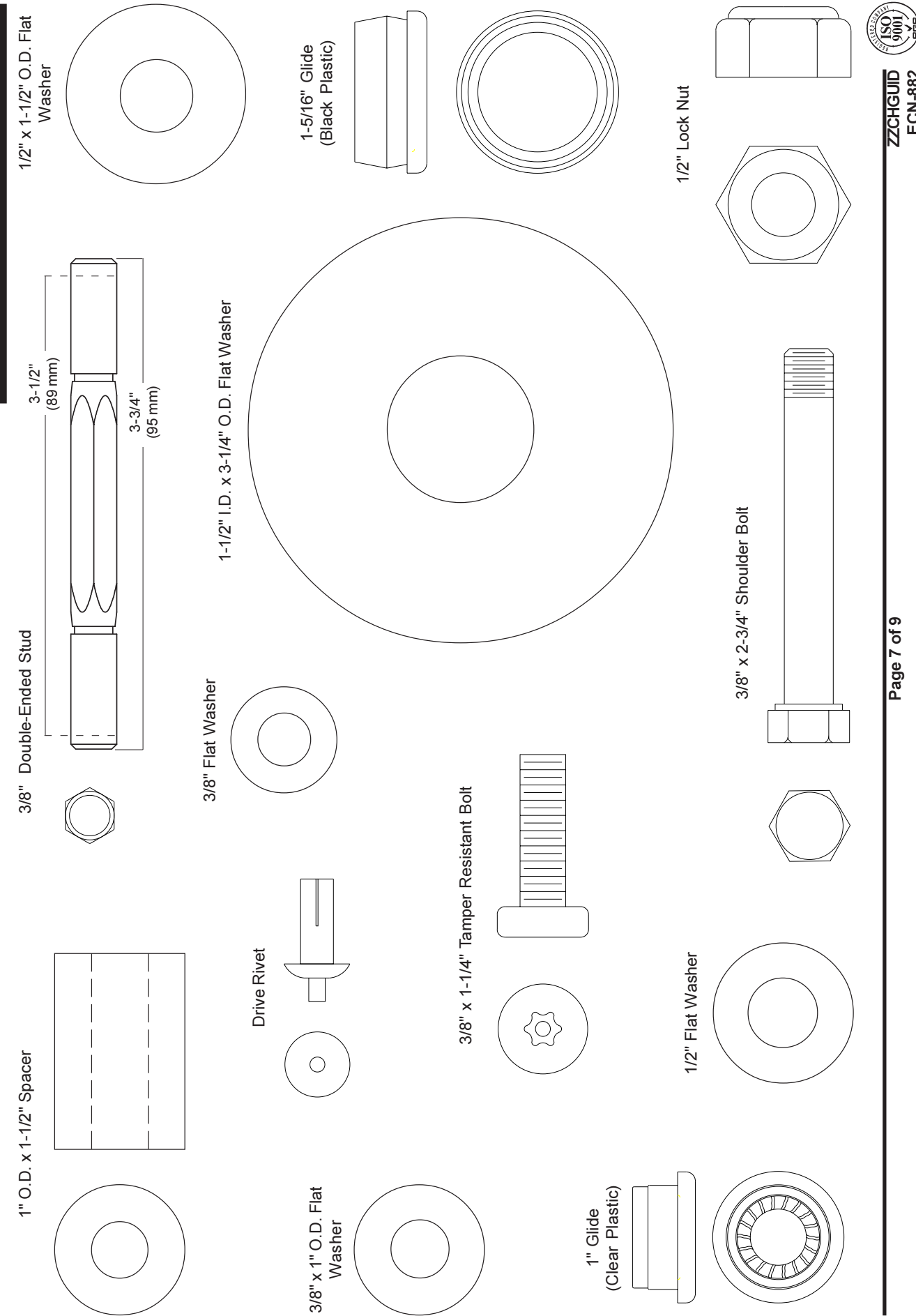
INSTALLATION INSTRUCTIONS

HARDWARE
The following are full scale drawings of the hardware commonly used in structure assembly. During installation, use these drawings as a quick reference.



Page 6 of 9

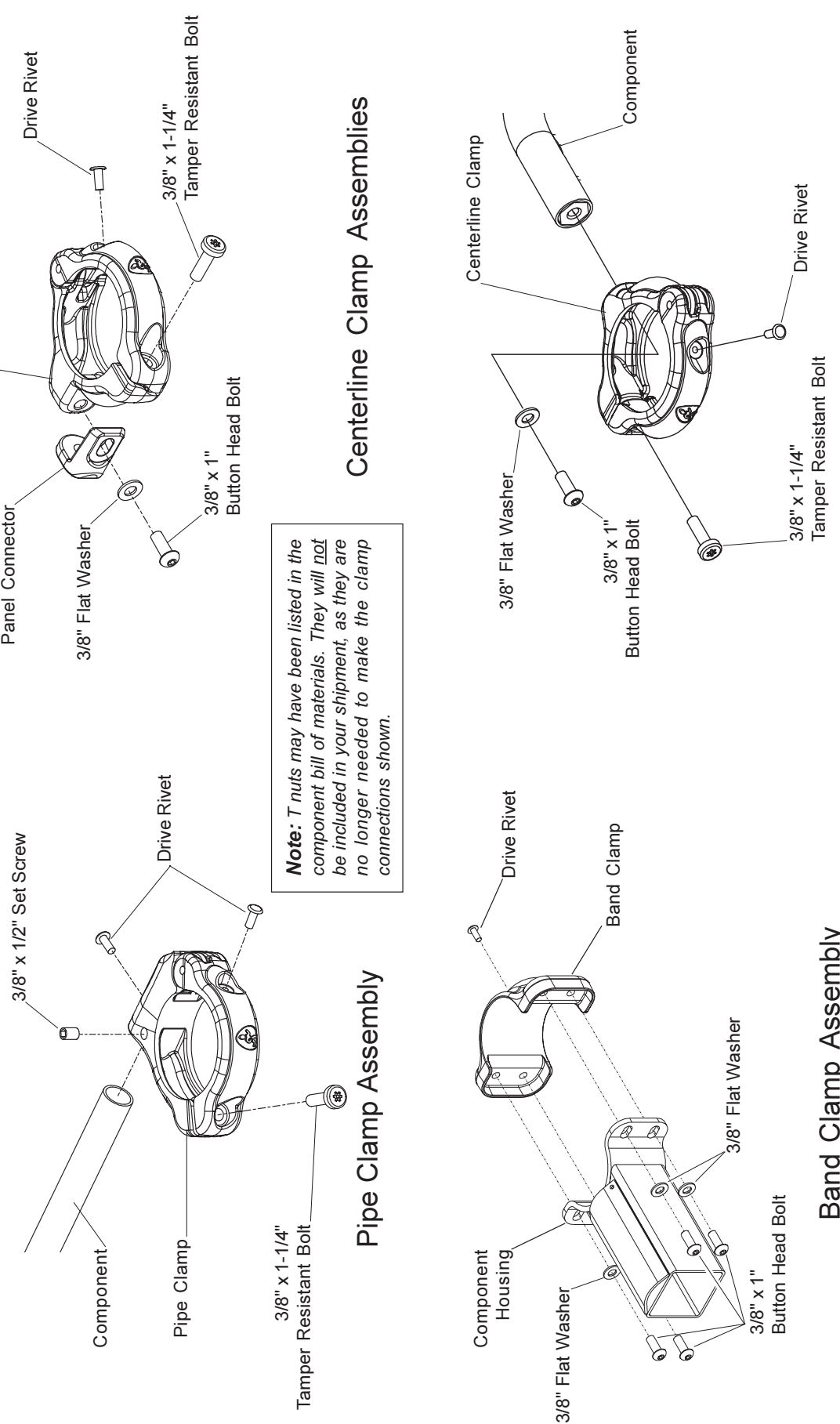
INSTALLATION INSTRUCTIONS



Page 7 of 9

INSTALLATION INSTRUCTIONS

CHALLENGERS- CLAMP ASSEMBLIES
We have provided the following typical assembly drawings of the Challengers clamps for your reference. These assemblies are performed throughout the installation of your structure.



Page 8 of 9

GRAY'S WOODS ELEMENTARY



CHALLENGER

Play Structure: 021457B

Ref.	Part No.	Description	Qty.
1	ZZCH0018	3-1/2" x 124" Steel Post w/ Riveted Cap	3
2	ZZCH0028	3-1/2" x 136" Steel Post w/ Riveted Cap	5
3	ZZCH0048	3-1/2" x 160" Steel Post w/ Riveted Cap	6
4	ZZCH0068	3-1/2" x 184" Steel Post w/ Riveted Cap	2
5	ZZCH0009GZ	3-1/2" x 112" GroundZero Post	1
6	ZZCH0038GZ	3-1/2" x 148" Steel GroundZero Post w/Riveted Cap	1
7	ZZCH0617	Triangular Vinyl Deck Assembly	1
8	ZZCH0618	1/2 Hex Vinyl Deck Assembly	2
9	ZZCH2026	Transfer Station (36" Deck)	1
10	ZZUN2019	Approach Step For Transfer Station	1
11	ZZCH2736	1-Piece 360° Plastic Spiral Slide	1
12	ZZCH2758	Lightning Slide (72" Deck)	1
13	ZZCH3520	Lightning Wide Slide (36" Deck)	1
14	ZZCH4366	Eagle's Perch	1
15	ZZCH4646	Storefront Panel	1
16	ZZCH4920	Oval Bubble Panel	1
17	ZZUN4280	Telescope (Pipe Wall Mount)	1
18	ZZUN4340	Steering Wheel (Oval Panel Mount)	1
19	ZZCH5190	Crawl Thru Panel (Ground Level)	1
20	ZZCH7220	Chain Net Climber (36" Deck)	1
21	ZZCH7430	Deep Rung Arch Climber (72" Deck)	1
22	ZZCH5807	10' Wave Ladder	1
23	ZZCH5970	Overhead Event Access Ladder (36")	1
24	ZZCH6886	Shorty Sky Rocker	1
25	ZZCH6850	U-Bounce	1
26	ZZCH6860	Challenge Walk	1
27	ZZCH7080	6' Catwalk	1
28	ZZCH9177	36" Accessible Tiered Platform (Deck to Deck)	1
29	ZZCHGUID	General Guidelines for Challengers	1
30	ZZUN9910	Surfacing Warning Label Kit	1
31	ZZUN9930	Maintenance Kit	1
32	ZZUN9990	Tool and Additional Parts Kit w/ Aerosol	1

This modular unit contains 17 active play components that will accommodate approximately 57 users and take approximately 67.6 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 3.05 yards of concrete for footings.



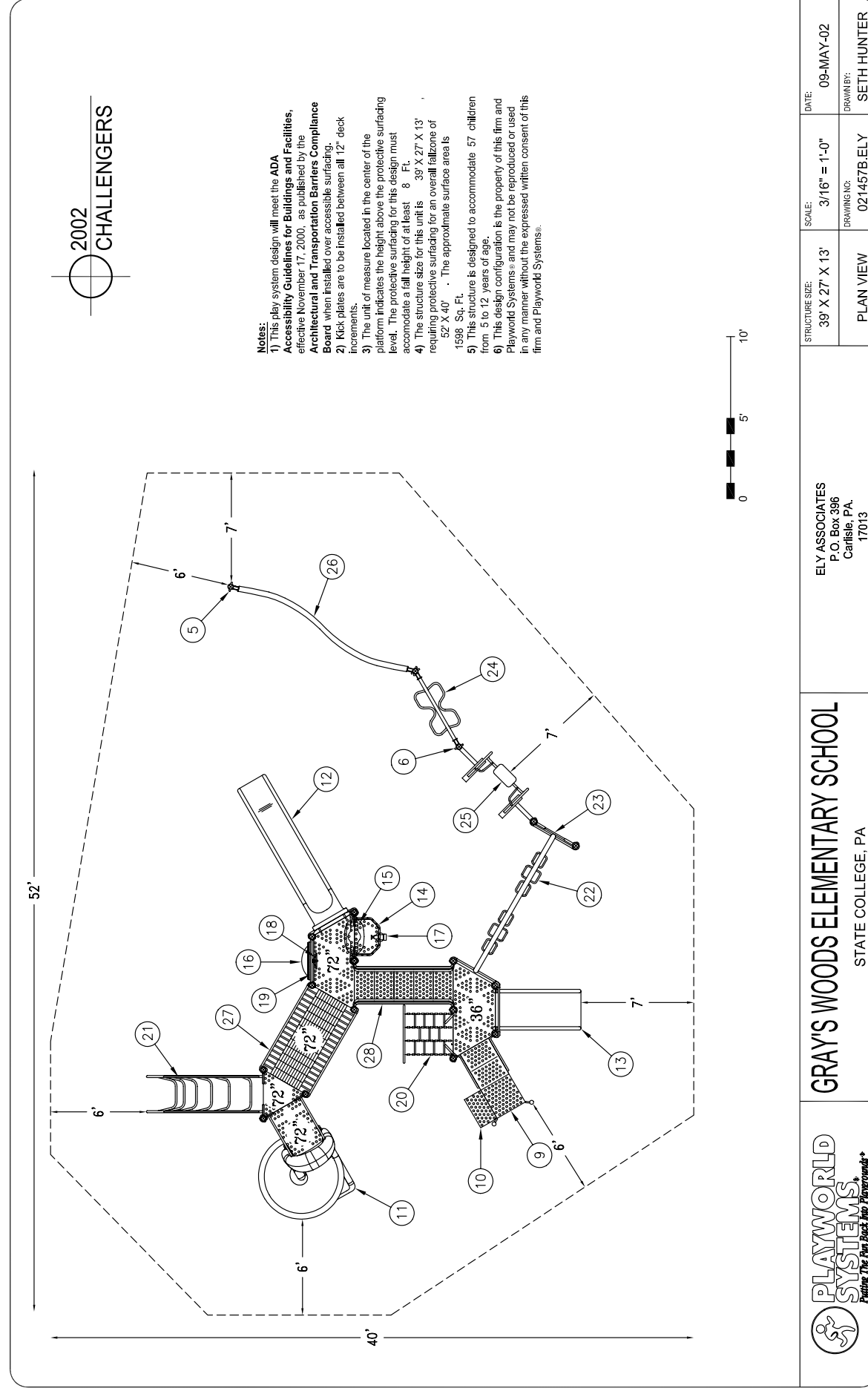
LILY PODS

CHALLENGER

Play Structure: 020281

Ref.	Part No.	Description	Qty.
1	ZZCH0028	3-1/2" x 136" Steel Post w/ Riveted Cap	4
2	ZZCH6606	Lily Pods (12" or 24" Deck to Deck)	1
3	ZZCHGUID	General Guidelines for Challengers	1
4	ZZUN9910	Surfacing Warning Label Kit	1
5	ZZUN9930	Maintenance Kit	1
6	ZZUN9990	Tool and Additional Parts Kit w/ Aerosol	1

This modular unit contains 01 active play components that will accommodate approximately 3 users and take approximately 9.4 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 0.75 yards of concrete for footings.



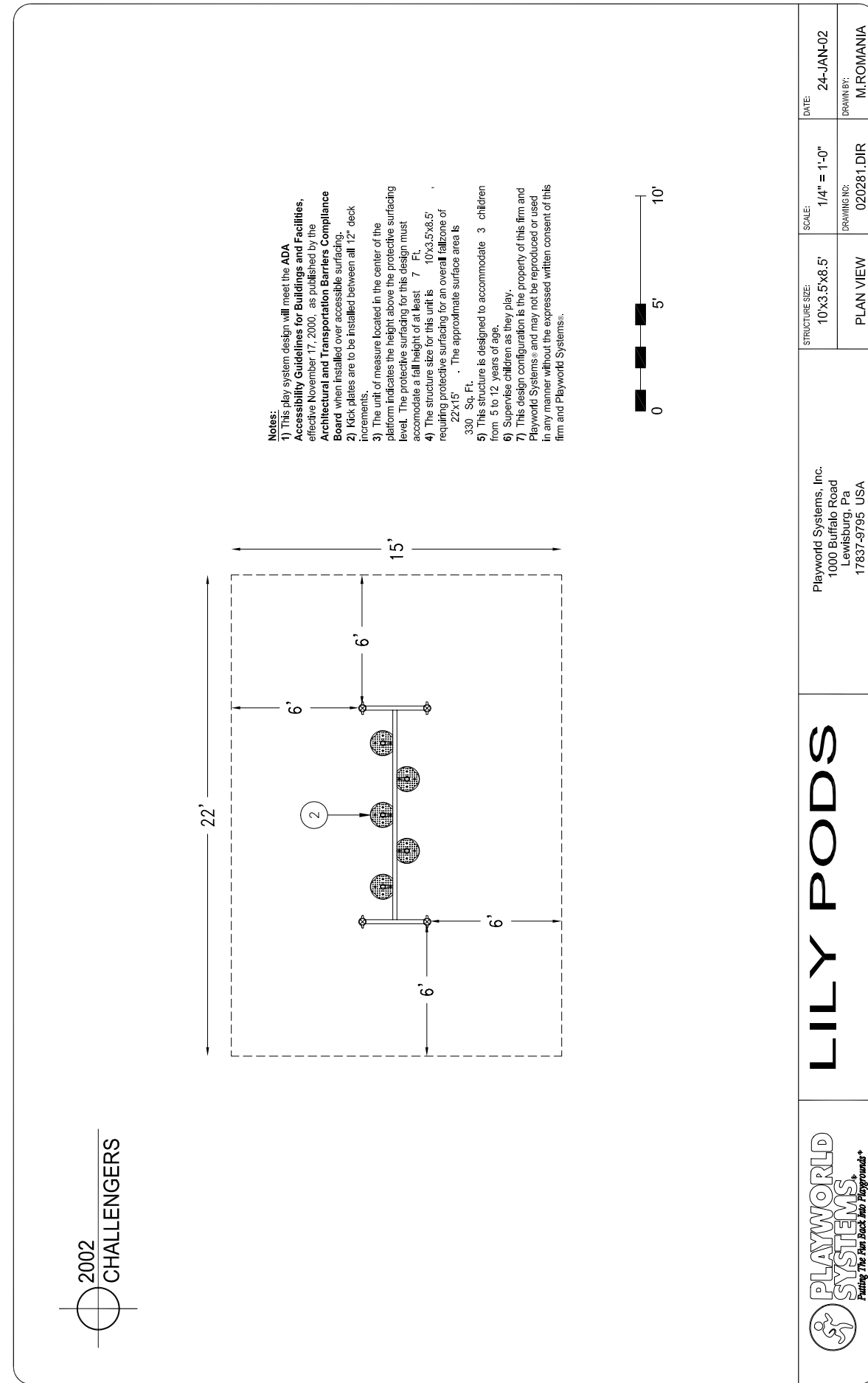
Notes:
 1) This play system design will meet the ADA Accessibility Guidelines for Buildings and Facilities, effective November 17, 2000, as published by the U.S. Department of Justice. The ADA Compliance Board when installed over accessible surfacing.
 2) Kick plates are to be installed between all 12" deck increments.
 3) The height of measure located in the center of the platform indicates the height above the protective surfacing level. The protective surfacing for this design must be a minimum of at least 8" above the 36" X 27" X 13" platform. The protective surfacing for this design must require protective surfacing for an overall fallzone of 52' X 40'. The approximate surface area is 2088 sq. ft.
 4) This play system is designed to accommodate 07 children from 5 to 12 years of age.
 5) This design configuration is the property of this firm and Playworld Systems, Inc. and may not be reproduced or used in any manner without the expressed written consent of this firm and Playworld Systems, Inc.



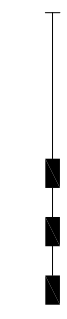
GRAY'S WOODS ELEMENTARY SCHOOL
STATE COLLEGE, PA



STRUCTURE SIZE: 39' X 27' X 13'	SCALE: 3/16" = 1'-0"	DATE: 09-MAY-02
PLAN VIEW	DRAWING NO: 02-14576-BELY	DRAWN BY: SETH HUNTER



Notes:
 1) This play system design will meet the ADA Accessibility Guidelines for Buildings and Facilities, effective November 17, 2000, as published by the U.S. Department of Justice. The ADA Compliance Board when installed over accessible surfacing.
 2) Kick plates are to be installed between all 12" deck increments.
 3) The height of measure located in the center of the platform indicates the height above the protective surfacing level. The protective surfacing for this design must be a minimum of at least 8" above the 36" X 27" X 13" platform. The protective surfacing for this design must require protective surfacing for an overall fallzone of 22' X 15'. The approximate surface area is 330 sq. ft.
 4) This structure is designed to accommodate 3 children from 5 to 12 years of age.
 5) This design configuration is the property of this firm and Playworld Systems, Inc. and may not be reproduced or used in any manner without the expressed written consent of this firm and Playworld Systems, Inc.



LILY PODS



STRUCTURE SIZE: 10' X 3.5' X 8.5'	SCALE: 1/4" = 1'-0"	DATE: 24-JAN-02
PLAN VIEW	DRAWING NO: 020281.DIR	DRAWN BY: M.ROMANIA

Playworld Systems, Inc.
1000 Buffalo Road
Lewisburg, Pa
17837-9795 USA



INSTALLATION INSTRUCTIONS CHALLENGERS® MODEL CH0009GZ GROUNDZERO® 112 in. (2845 mm) STEEL SUPPORT POST WITH CAP



Assembly View

Installation Preparation
 Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 35.1 Lbs. (16 Kilos)
 Concrete Required: 0.18 cubic yard

Torque Specification:
 Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
 Set Screws: Snug tighten and tighten an additional full turn.

Maintenance
 Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
 Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
 As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0018

124 in. (3150 mm) STEEL SUPPORT POST WITH CAP



Assembly View

Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 0.5 man-hour
Weight: 38.9 Lbs. (17.5 Kilos)
Concrete Required: 0.13 cubic yard

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0028

136 in. (3454 mm) STEEL SUPPORT POST WITH CAP



Assembly View

Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 0.5 man-hour
Weight: 43.5 Lbs. (19.8 Kilos)
Concrete Required: 0.13 cubic yard

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0038GZ

GROUNDZERO® 148 in. (3759 mm) STEEL SUPPORT POST WITH CAP



Assembly View

Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 47 Lbs. (21.2 Kilos)
Concrete Required: 0.18 cubic yard

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0048

160 in. (4064 mm) STEEL SUPPORT POST WITH CAP



Assembly View

Installation Preparation . . .
Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: 50.2 Lbs. (22.8 Kilos)
Concrete Required: 0.1 cubic yards

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

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- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

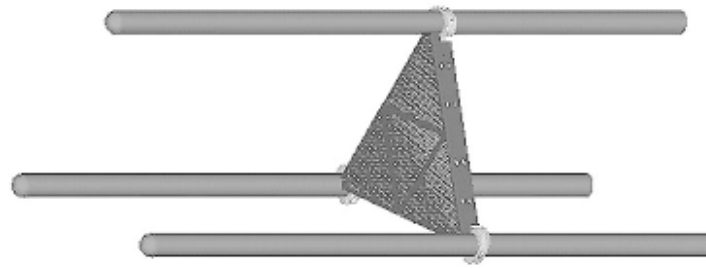
INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0068
 STEEL SUPPORT POST
 184 in. (4674 mm) with Cap



Assembly View

Installation Preparation . . .	
Installation Time:	Approx. 1 hour
Weight:	60 Lbs. (27 Kilos)
Concrete Required:	Approx. 3.4 cubic feet
Use Zone:	6 ft. (1829 mm) all sides
Torque Specification:	
Bolts & Nuts:	Snug tighten and tighten an additional one-half turn.
Set Screws:	Snug tighten and tighten an additional full turn.
Maintenance . . .	
<ul style="list-style-type: none"> Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure. Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered. As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. 	

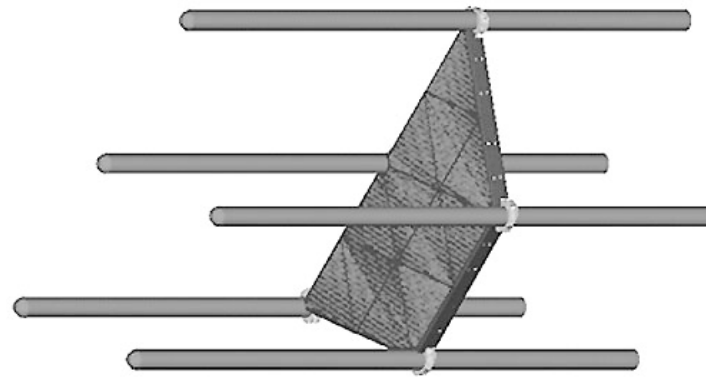
INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0617
 TRIANGULAR PLAYARMOUR® PERFORATED DECK



Assembly View

Installation Preparation . . .	
Recommended Crew:	Two (2) adults
Installation Time:	1 man-hour
Weight:	38.4 Lbs. (17.5 Kilos)
Use Zone:	6 ft. (1829 mm) all sides
User Group:	Ages 2 - 12 years
Torque Specification:	
Bolts & Nuts:	Snug tighten and tighten an additional one-half turn.
Set Screws:	Snug tighten and tighten an additional full turn.
Maintenance . . .	
<ul style="list-style-type: none"> Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure. Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered. As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. 	

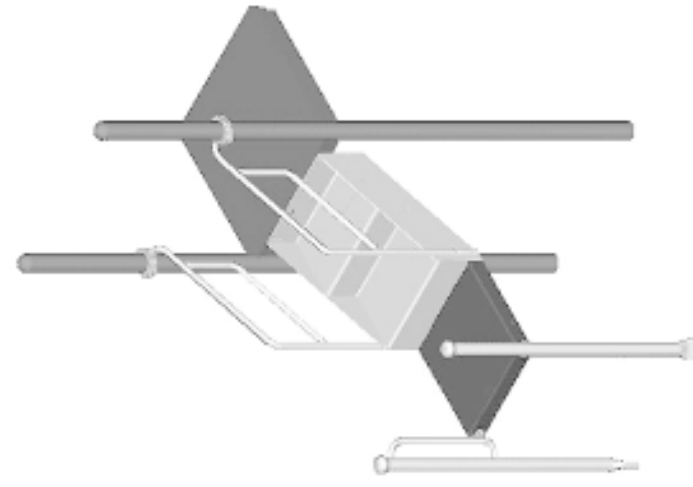
INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0618
 HALF HEX PLAYARMOUR™ PERFORATED DECK



Assembly View

Installation Preparation . . .	
Recommended Crew:	Three (3) adults
Installation Time:	1.5 man-hours
Weight:	95.7 Lbs. (43.2 Kilos)
Use Zone:	6 ft. (1829 mm) all sides
User Group:	Ages 2 - 12 years
Torque Specification:	
Bolts & Nuts:	Snug tighten and tighten an additional one-half turn.
Set Screws:	Snug tighten and tighten an additional full turn.
Maintenance . . .	
<ul style="list-style-type: none"> Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure. Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered. As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. 	

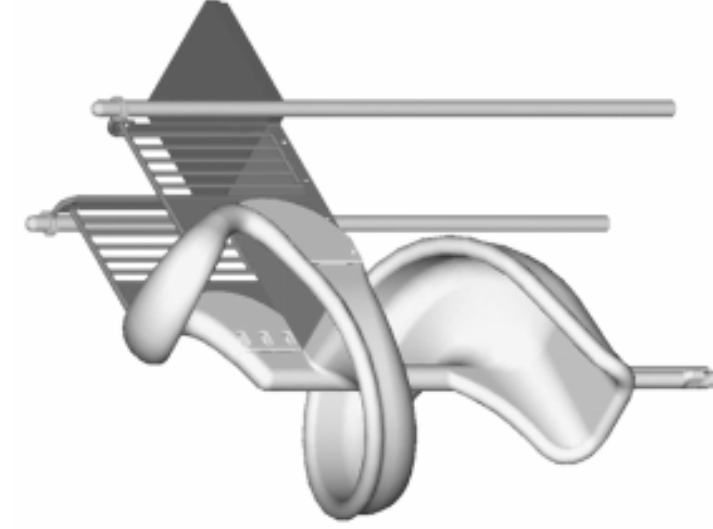
INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH2026
 36 in. (914 mm) TRANSFER STATION



Assembly View

Installation Preparation . . .	
Recommended Crew:	Two (2) adults
Installation Time:	2 man-hours
Weight:	167.3 lbs. (75.3 Kilos)
Concrete Required:	0.09 cubic yards
Use Zone:	6 ft. (1829 mm) all sides
User Group:	Ages 2 - 12 years
Torque Specification:	
Bolts & Nuts:	Snug tighten and tighten an additional one-half turn.
Set Screws:	Snug tighten and tighten an additional full turn.
Maintenance . . .	
<ul style="list-style-type: none"> Play Designs strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure. Play Designs strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered. As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. 	

INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH2736
 ONE PIECE 360° PLASTIC SPIRAL SLIDE



Assembly View

Installation Preparation . . .
 Recommended Crew: Four (4) adults
 Installation Time: 6 man-hours
 Weight: 584.3 Lbs. (262.9 Kilos)
 Concrete Required: 0.2 cubic yards
 Use Zone: 6 ft. (1829 mm) in front of slide exit
 6 ft. (1829 mm) all other sides
 User Group: Ages 2 - 12 years

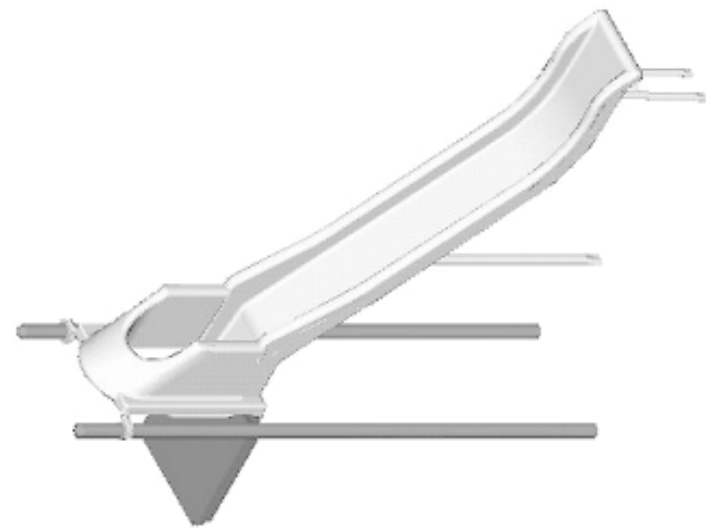
Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH2758
 72 in. (1829 mm) LIGHTNING SLIDE



Assembly View

Installation Preparation . . .
 Recommended Crew: Three (3) adults
 Installation Time: Approx. 2 man-hours
 Weight: 173 Lbs. (78 Kilos)
 Concrete Required: Approx. .09 cubic yard
 Use Zone: 10 ft. (3048 mm) in front of slide exit
 6 ft. (1829 mm) all other sides
 User Group: Ages 2 - 12 years

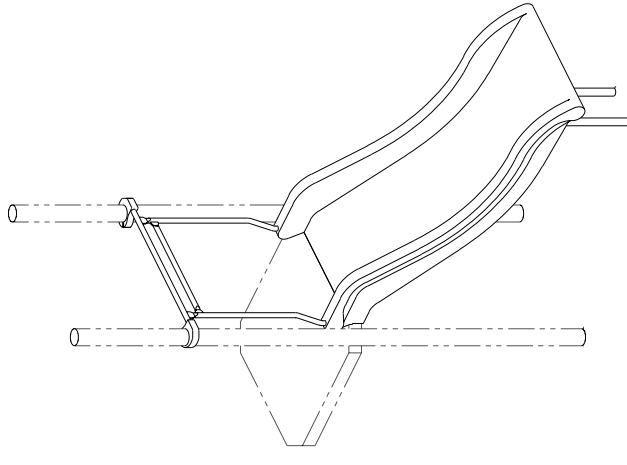
Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH3520
 36 in. (914 mm) LIGHTNING WIDE SLIDE



Assembly View

Installation Preparation . . .
 Installation Time: Approx. 2 hours
 Weight: 77 Lbs. (35 Kilos)
 Concrete Required: Approx. 2 cubic feet
 Use Zone: 6 ft. (1829 mm) all sides
 7 ft. (2140 mm) in front of slide exit

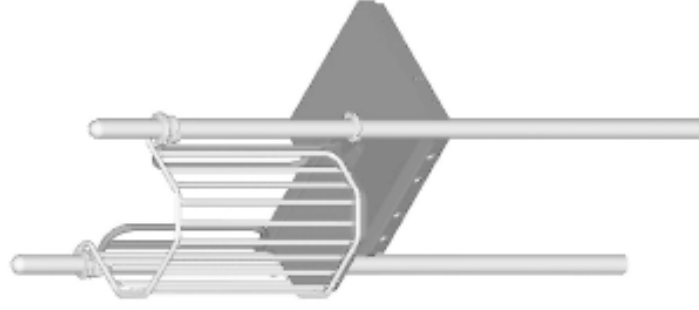
Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH4366
 EAGLE'S PERCH



Assembly View

Installation Preparation . . .
 Recommended Crew: Three (3) adults
 Installation Time: 1.5 man-hours
 Weight: 147.1 Lbs. (66.2 Kilos)
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 2 - 12 years

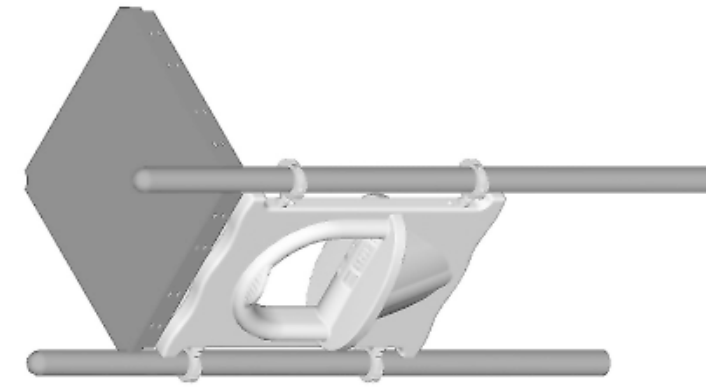
Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGERS™
MODEL CH4646
 STOREFRONT PANEL



Assembly View

Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 34 Lbs. (15.3 Kilos)
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 2 - 5 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

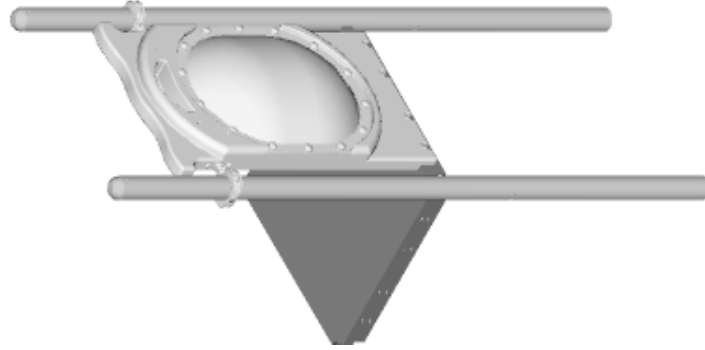
Maintenance . . .

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- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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Model CH4646
 PA-768

INSTALLATION INSTRUCTIONS
CHALLENGERS™
MODEL CH4920
 DECK MOUNT OVAL BUBBLE PANEL



Assembly View

Installation Preparation . . .
 Recommended Crew: One (1) Adult
 Installation Time: 1 hour
 Weight: 39.8 Lbs. (17.9 Kilos)

Torque Specification:

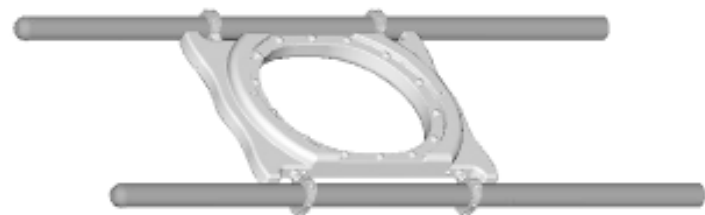
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Model CH4920
 PA-565

INSTALLATION INSTRUCTIONS
CHALLENGERS™
MODEL CH5190
 OVAL CRAWL THRU PANEL



Assembly View

Installation Preparation . . .
 Recommended Crew: One (1) Adult
 Installation Time: 0.5 hour
 Weight: 25.6 Lbs. (11.5 Kilos)

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

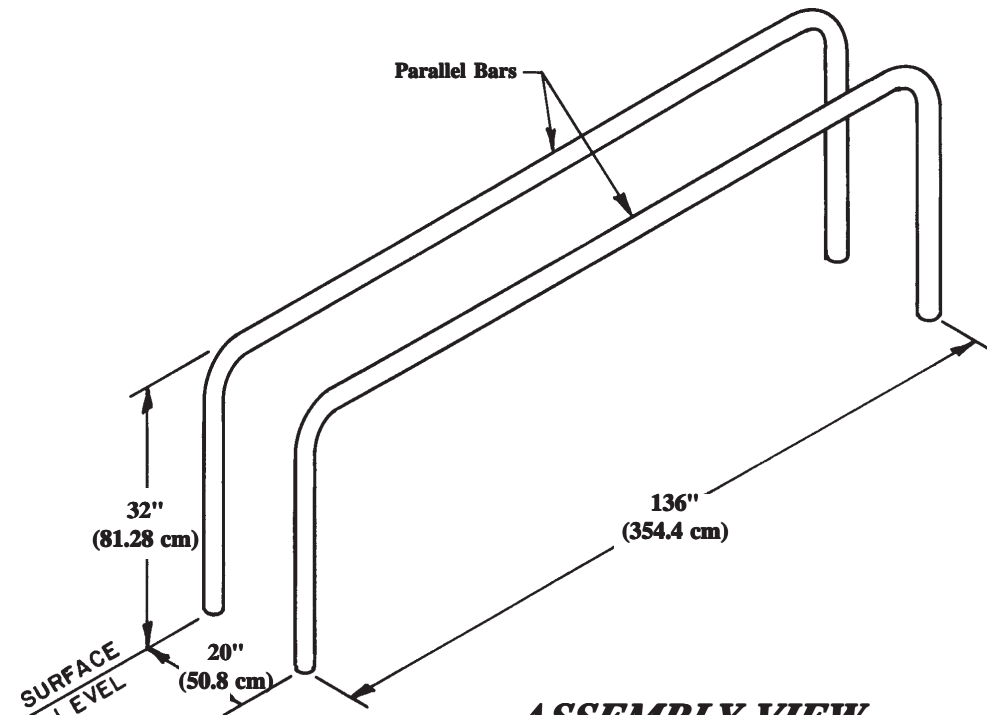
Maintenance . . .

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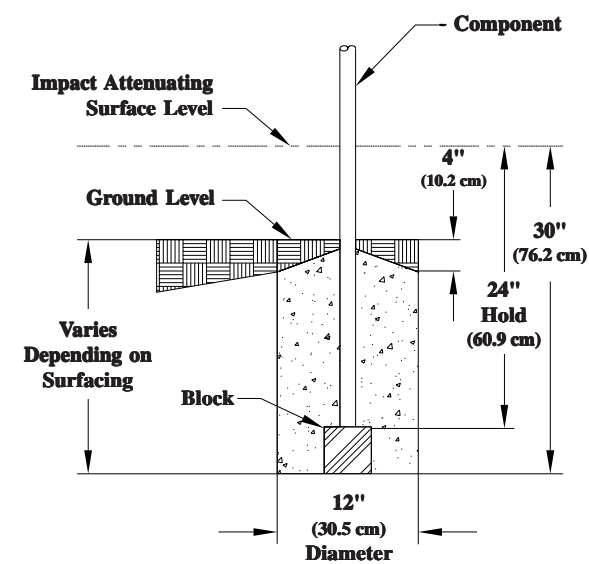
Model CH5190
 PA-565

CHALLENGERS™

PARALLEL BARS
MODEL CH5750



ASSEMBLY VIEW



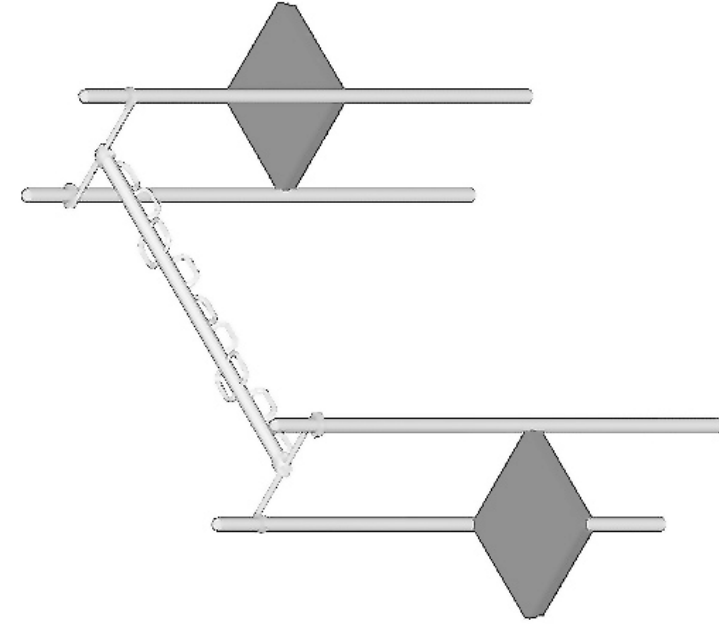
FOOTING DETAIL



NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030

PARALLEL BARS

INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH5807
 10 ft. (3048 mm) WAVE LADDER



Assembly View

Installation Preparation
 Recommended Crew: Three (3) adults
 Installation Time: 1 man-hour
 Weight: 64.8 Lbs. (29.5 Kilos)
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance

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INSTALLATION INSTRUCTIONS
CHALLENGERS™
MODEL CH5970
 OVERHEAD EVENT ACCESS LADDER
 (3) Rungs



Assembly View

Installation Preparation
 Recommended Crew: One (1) adult
 Installation Time: 1.5 hour
 Weight: 25.1 Lbs. (11.3 Kilos)
 Concrete Required: 0.06 cubic yard
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12

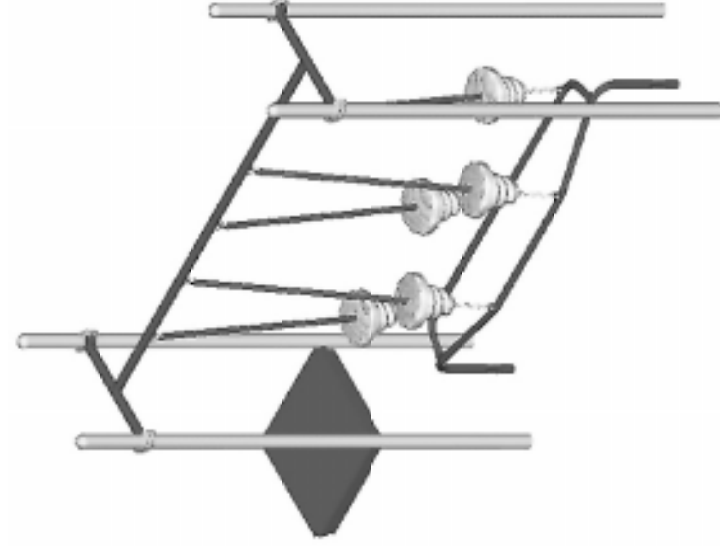
Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH6606
 LILY PODS



Assembly View

Installation Preparation
 Recommended Crew: Four (4) adults
 Installation Time: 3 hours
 Weight: 169 Lbs. (76.1 Kilos)
 Concrete Required: .05 cubic feet
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGER®
MODEL CH6850
 U-BOUNCE



Assembly View

Installation Preparation
 Recommended Crew: Two (2) adults
 Installation Time: 3 man-hours
 Weight: 102.7 Lbs. (46.2 Kilos)
 Use Zone: 7 ft. (2134 mm) all sides
 User Group: Ages 5 - 12 years

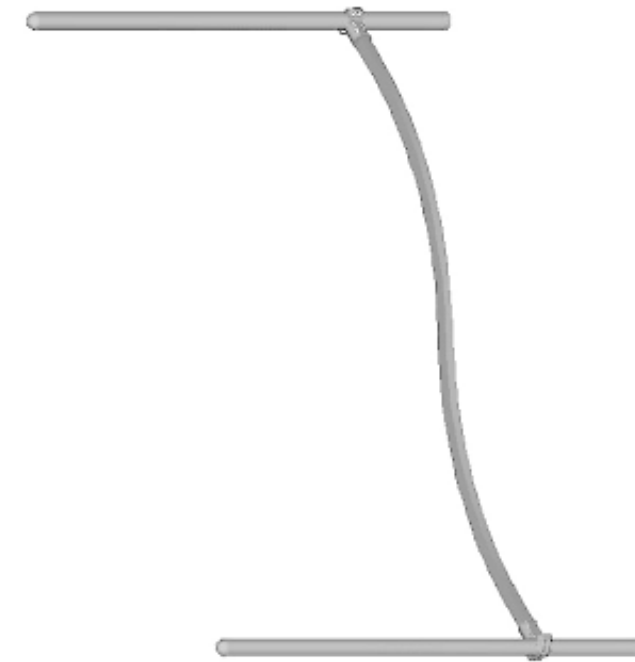
Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH6860
 CHALLENGE WALK



Assembly View



Installation Preparation . . .
 Recommended Crew: One (1) adult
 Installation Time: 2 hours
 Weight: 59.2 Lbs. (26.7 Kilos)
 Use Zone: 7 ft. (2134 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
 • Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
 • Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH6886
 SHORTY SKY ROCKER



Assembly View

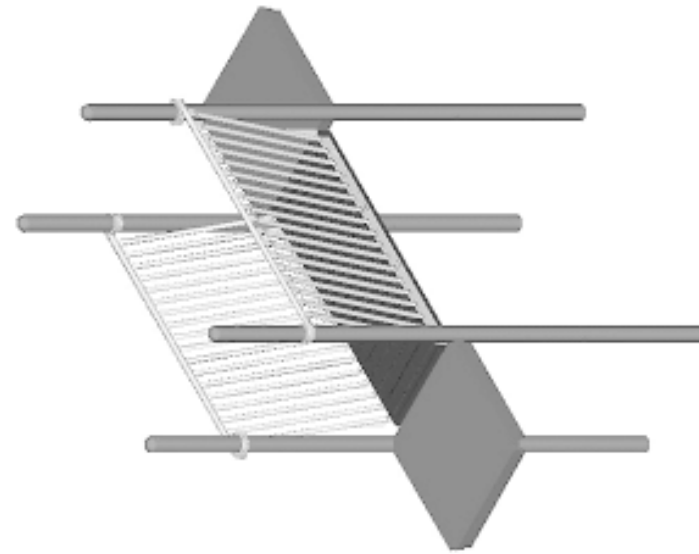


Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 38.9 Lbs. (17.7 Kilos)
 Use Zone: 72 in. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
 • Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
 • Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH7080
 6 ft. (1829 mm) CATWALK



Assembly View

Installation Preparation . . .
 Recommended Crew: Three (3) adults
 Installation Time: Approx. 1-1/2 man-hours
 Weight: 277 Lbs. (126 Kilos)
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 2 - 12

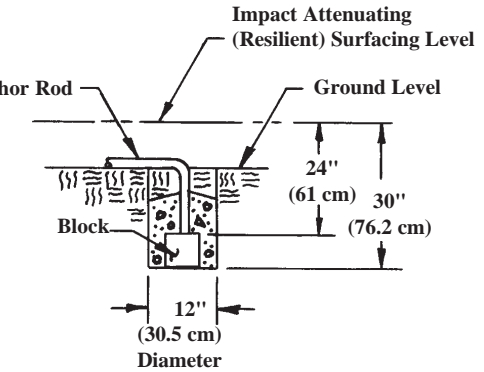
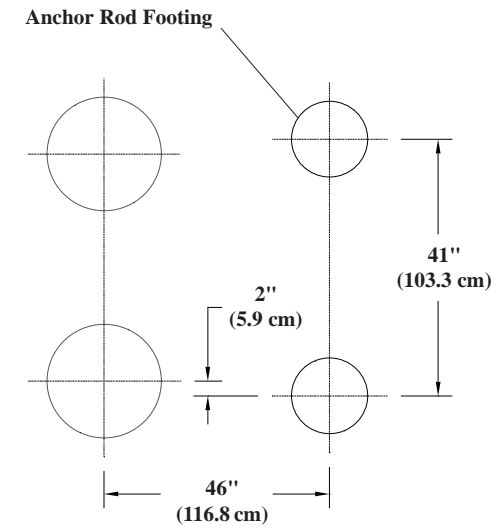
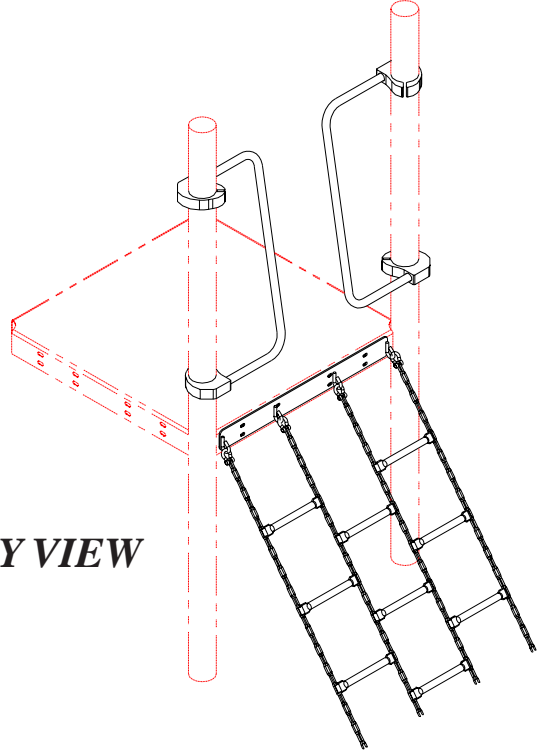
Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
 • Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
 • Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
 • As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

CHALLENGERS™
CHAIN NET CLIMBER

CHAIN NET CLIMBER
 36" (91.4 cm) DECK
 MODEL CH7220

ASSEMBLY VIEW



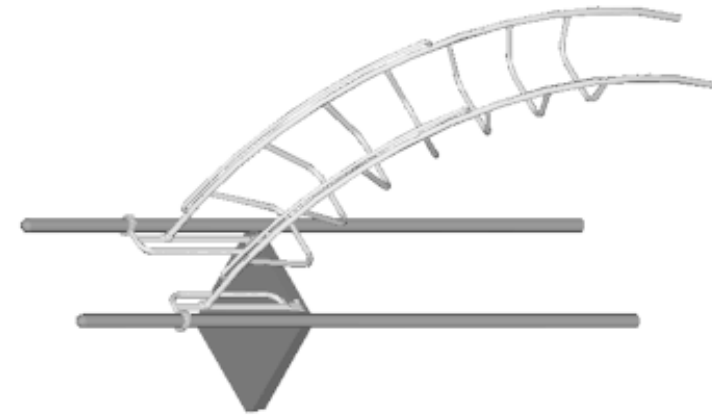
FOOTING DETAIL

FOOTING DIAGRAM

CHAIN NET CLIMBER

INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH7430

72 in. (1829 mm) DEEP RUNG ARCH CLIMBER



Assembly View

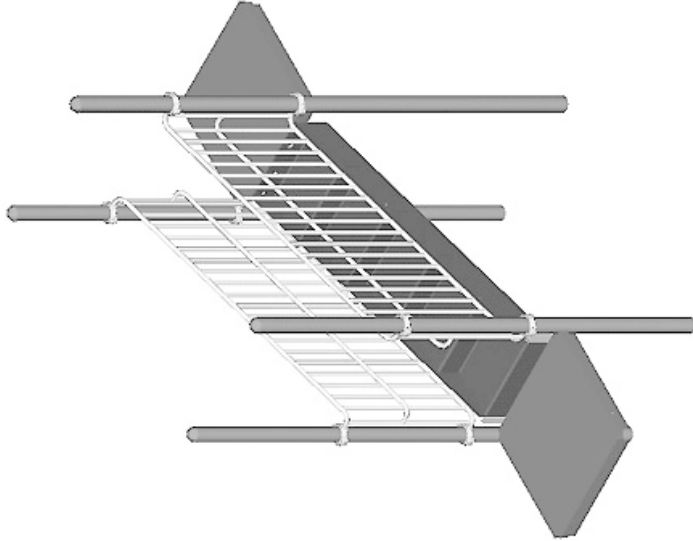
Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: Approx. 2 man-hours
 Weight: 111 Lbs. (50 Kilos)
 Concrete Required: Approx. .06 cubic yards
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
 • Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
 • Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
 • As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH9177
36 in. (914 mm) DECK TO DECK
ACCESSIBLE TIERED PLATFORM



Assembly View

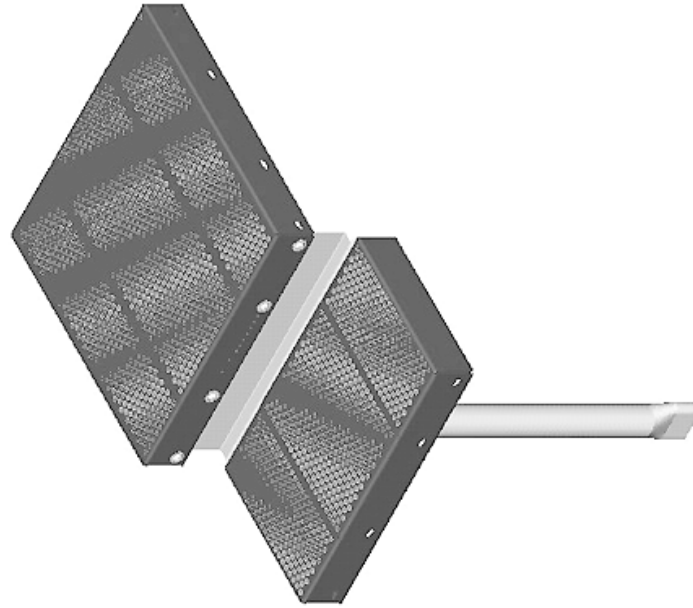
Installation Preparation . . .
 Recommended Crew: Three (3) adults
 Installation Time: 1.5 man-hours
 Weight: 293.2 Lbs. (131.9 Kilos)
 User Group: Ages 2 - 12 years

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
 • Play Designs strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
 • Play Designs strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
UNIVERSAL
MODEL UN2019
PLATFORM - APPROACH STEP



Assembly View

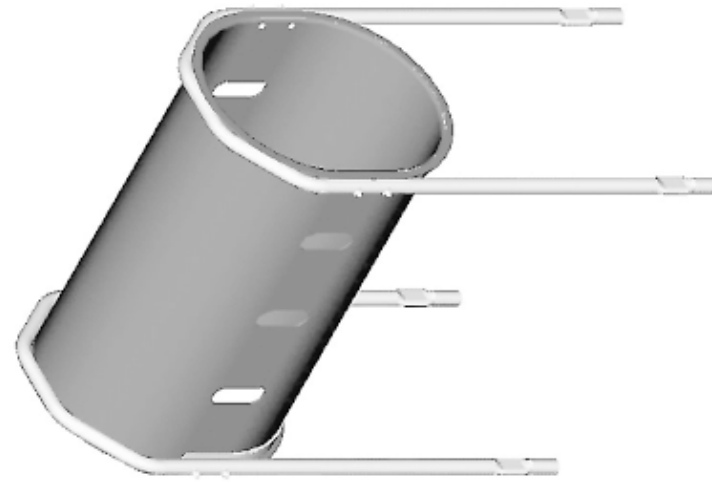
Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 40.4 Lbs. (18.2 Kilos)
 Concrete Required: 0.04 cubic yards
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 2-12 years

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
 • Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
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INSTALLATION INSTRUCTIONS
UNIVERSAL
MODEL UN4270
FREESTANDING OVAL CRAWL TUBE



Assembly View

Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 2.5 man-hours
 Weight: 88.5 Lbs. (39.8 Kilos)
 Concrete Required: 0.12 cubic yards
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

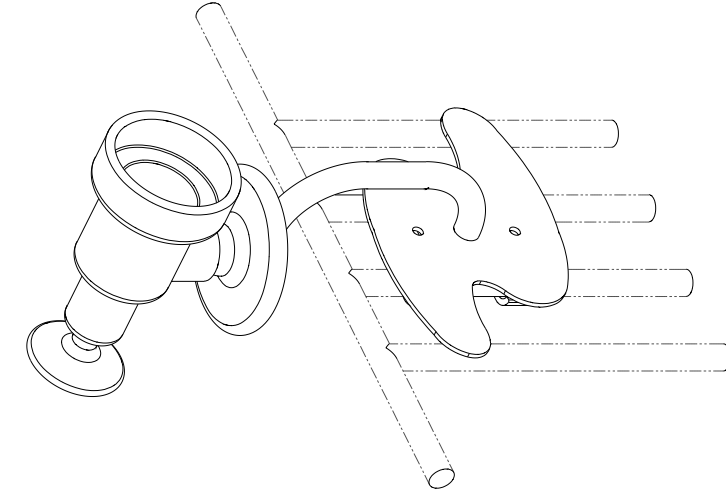
Maintenance . . .
 • Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
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INSTALLATION INSTRUCTIONS

**PLAYWORLD SYSTEMS®
MODEL UN4280**

PIPE WALL MOUNT TELESCOPE



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult
 Installation Time: 1 hour
 Weight: 9.5 Lbs. (4.3 Kilos)
 User Group: Ages 2 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

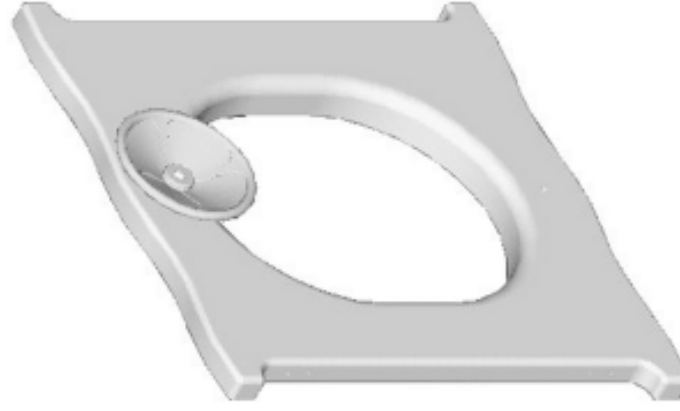
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Page 1 of 3



INSTALLATION INSTRUCTIONS

**UNIVERSAL
MODEL UN4340
STEERING WHEEL
Oval Panel Mount**



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Weight: 5.1 Lbs. (2.3 Kilos)
 User Group: Ages 2 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

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Page 1 of 3



INSTALLATION INSTRUCTIONS

**UNIVERSAL
MODEL UN9910
SURFACING WARNING LABEL**

WARNING
 INSTALLATION OVER A HARD SURFACE SUCH AS CONCRETE, ASPHALT, OR PACKED EARTH MAY RESULT IN SERIOUS INJURY OR DEATH FROM FALLS.

PLAYWORLD SYSTEMS®
Putting The Fun Back Into Playgrounds®
 1-800-233-8404 570-522-9800
 www.playworldsystems.com

Installation Preparation . . .

Recommended Crew: One (1) adult
 Installation Time: 15 to 20 minutes

Maintenance . . .

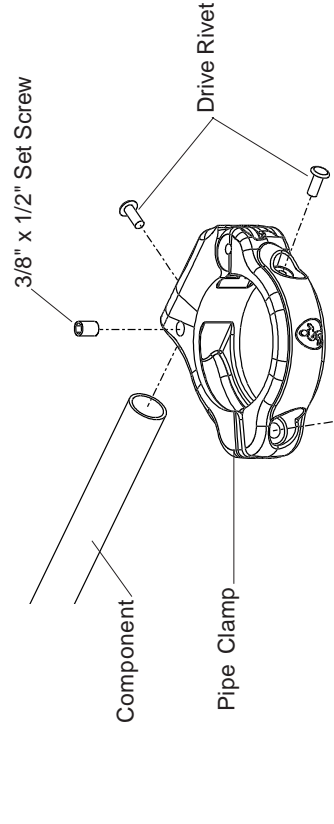
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
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Page 1 of 2

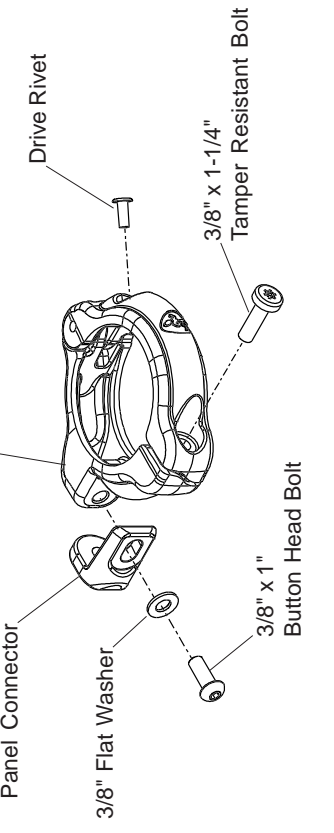


CHALLENGERS: CLAMP ASSEMBLIES

We have provided the following typical assembly drawings of the Challengers clamps for your reference. These assemblies are performed throughout the installation of your structure.

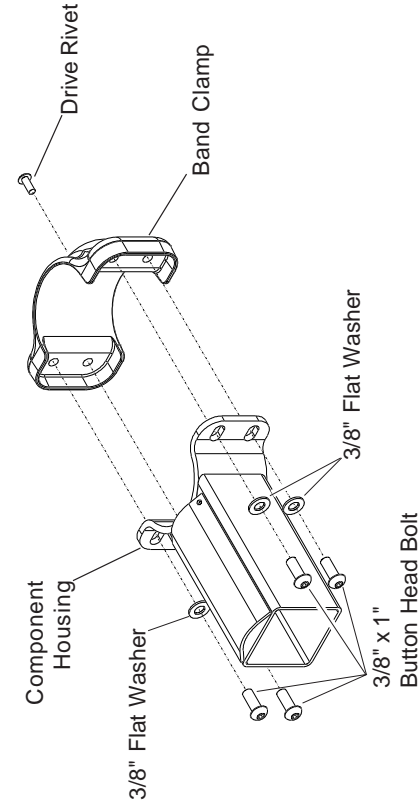


Pipe Clamp Assembly

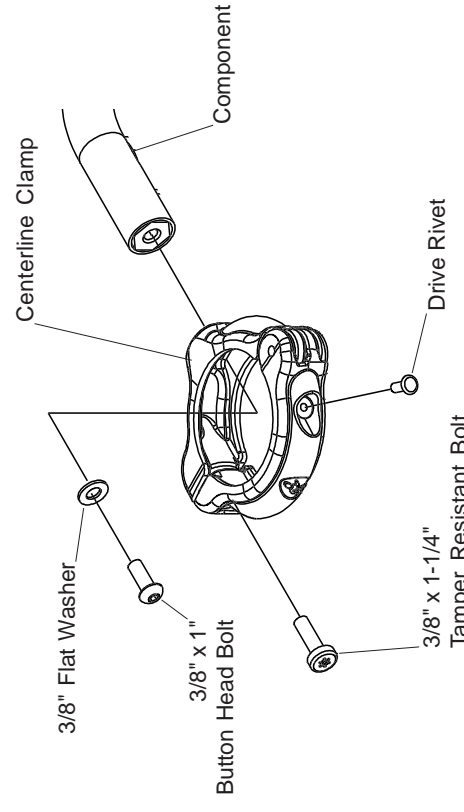


Centerline Clamp Assemblies

Note: T nuts may have been listed in the component bill of materials. They will not be included in your shipment, as they are no longer needed to make the clamp connections shown.



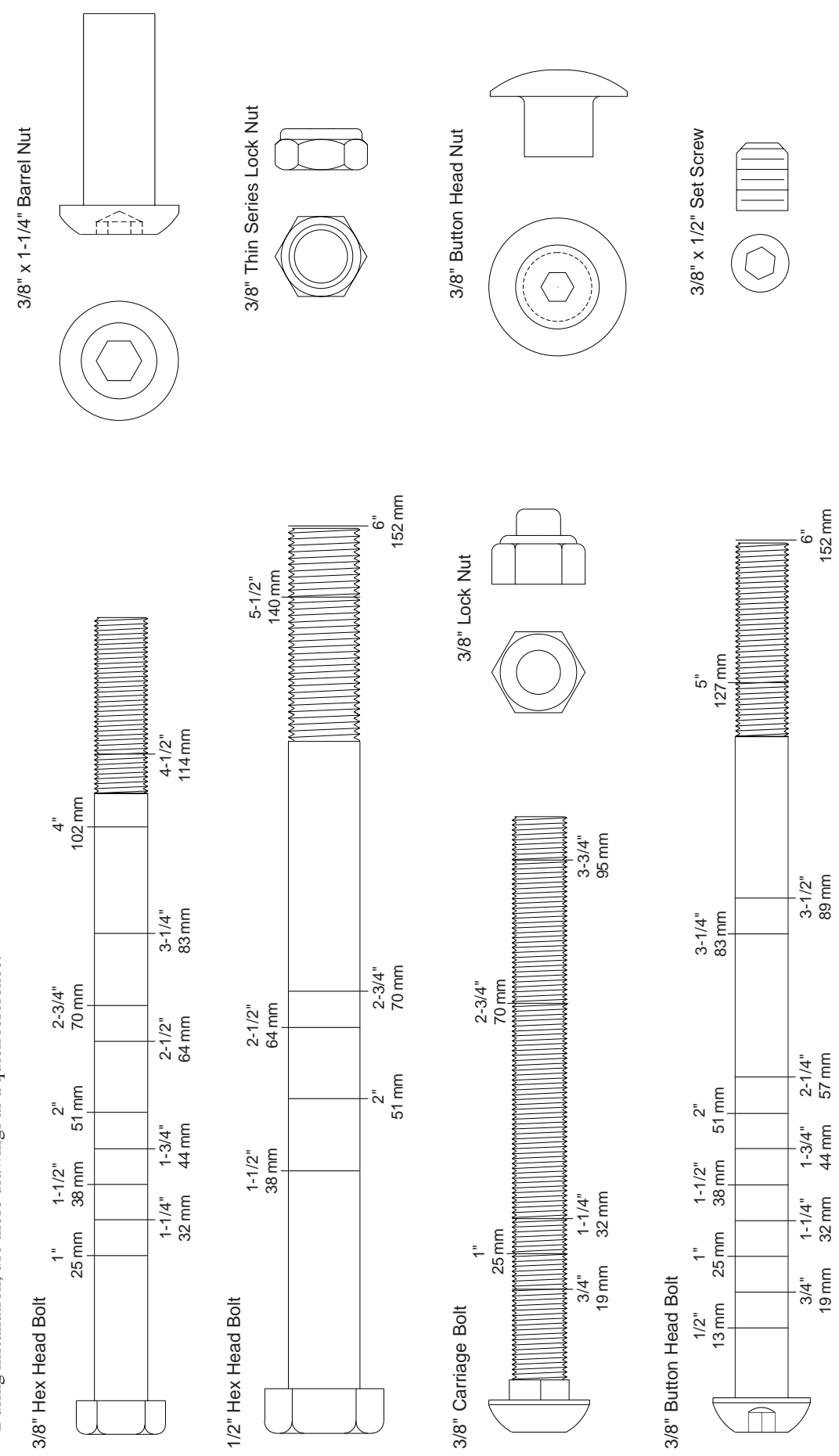
Band Clamp Assembly



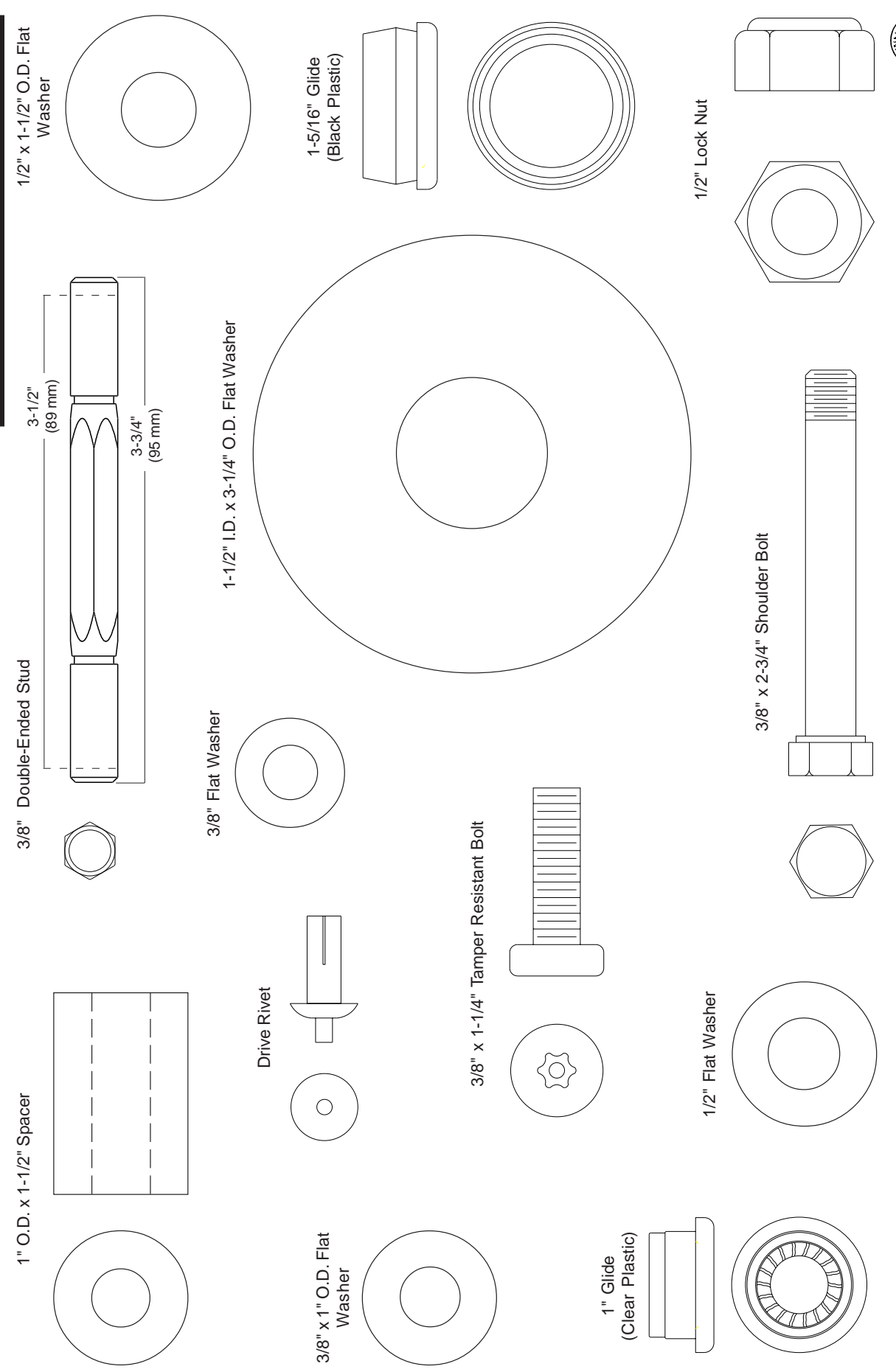
Page 6 of 9

INSTALLATION INSTRUCTIONS

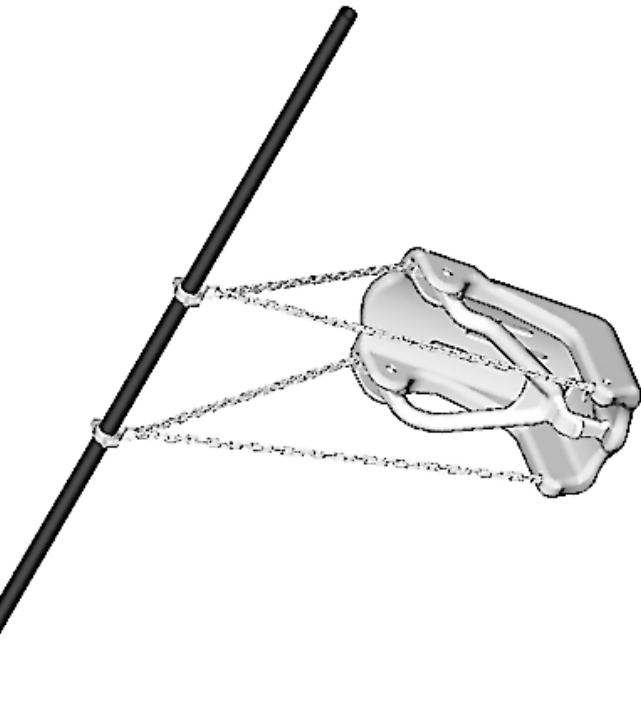
HARDWARE
The following are full scale drawings of the hardware commonly used in structure assembly. During installation, use these drawings as a quick reference.



INSTALLATION INSTRUCTIONS



INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0244
 ACCESSIBLE SWING SEAT
 8 ft. (2438 mm) TOP RAIL HEIGHT



THIS ACCESSIBLE SWING SEAT HAS BEEN DESIGNED FOR COMMERCIAL USE ONLY. IT IS NOT INTENDED TO BE USED WITH HOME OR BACK-YARD PLAY EQUIPMENT.

Installation Preparation . . .

Recommended Crew: One (1) adult
 Installation Time: 2.5 hour
 Weight: 29.9 lbs. (13.6 Kilos)
 Use Zone: 26 ft. (7925 mm) Total Front and Back
 User Group: Ages 5 and up

Torque Specification:

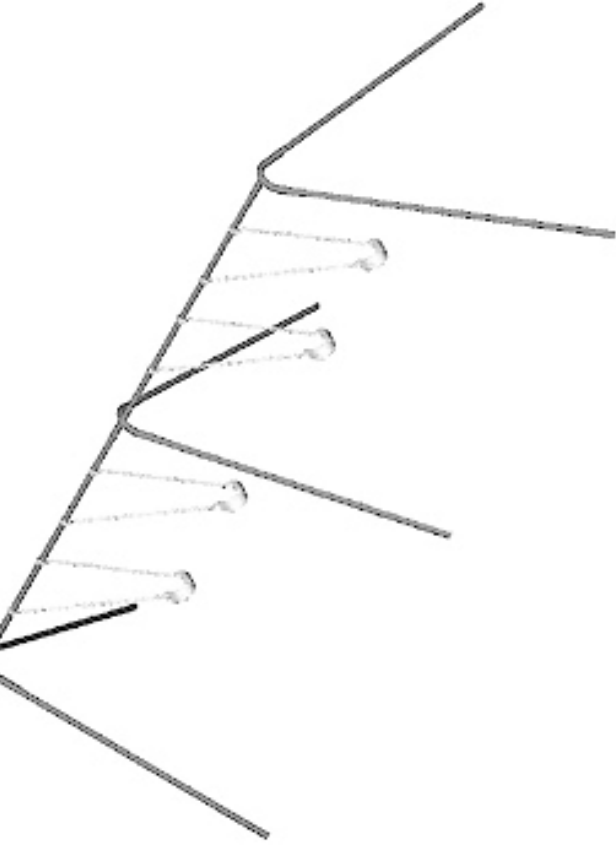
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0252
 8 ft. (2438 mm) 4-UNIT STANDARD SWING



Installation Preparation . . .

Recommended Crew: Three (3) adults
 Installation Time: 5 man-hours
 Weight: 359.6 Lbs. (163.5 Kilos)
 Concrete Required: 0.78 cubic yard
 Use Zone: See page 1 for Swing Use Zone information.
 User Group: Ages 2-12

Torque Specification:

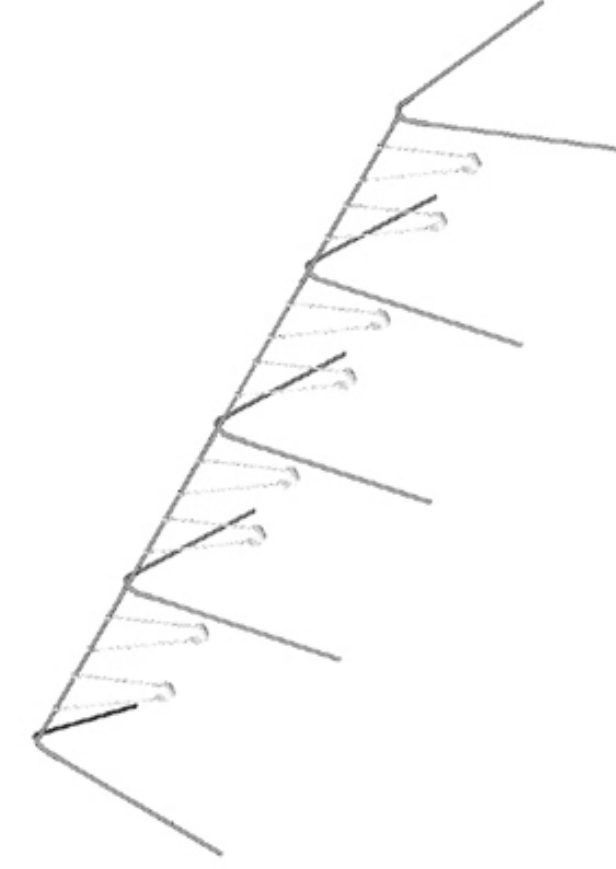
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

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8 ft. (2438 mm) 8-UNIT STANDARD SWING



Assembly View

Installation Preparation . . .
 Recommended Crew: Three (3) adults
 Installation Time: 9 man-hours
 Weight: 639.9 Lbs. (290.6 Kilos)
 Concrete Required: 1.30 cubic yard
 Use Zone: See **page 1** for Swing Use Zone information.
 User Group: Ages 2-12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

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- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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Model XX0256
 ECN-894

BELT SWING WITH GALVANIZED CHAIN
 8 ft. (2438 mm) Top Rail Height



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult
 Installation Time: 25 hour
 Weight: 8.3 lbs. (3.8 Kilos)
 Use Zone: 32 ft. (9754 mm) Total Front and Back
 User Group: Ages 5 and up

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

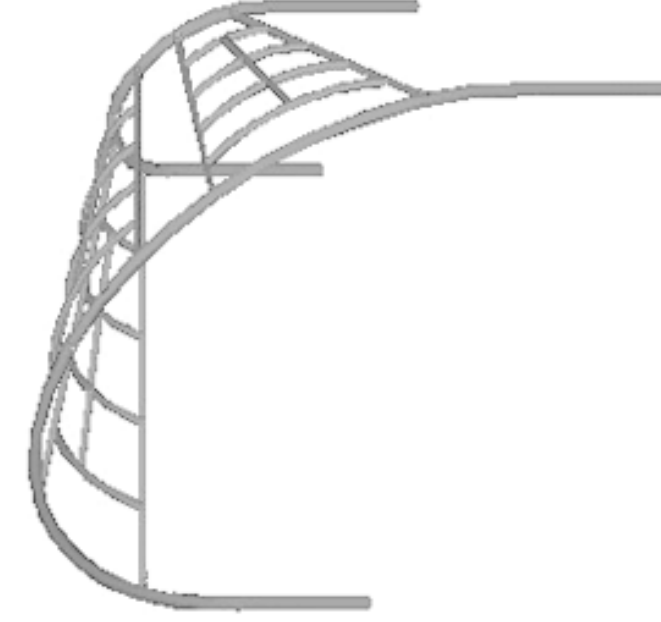
Maintenance . . .

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Model XX0260
 ECN-896



Assembly View

Installation Preparation . . .

Recommended Crew: Two (2) adults
 Installation Time: 3 man-hours
 Weight: 211 Lbs. (95 Kilos)
 Concrete Required: 0.23 cubic yard
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

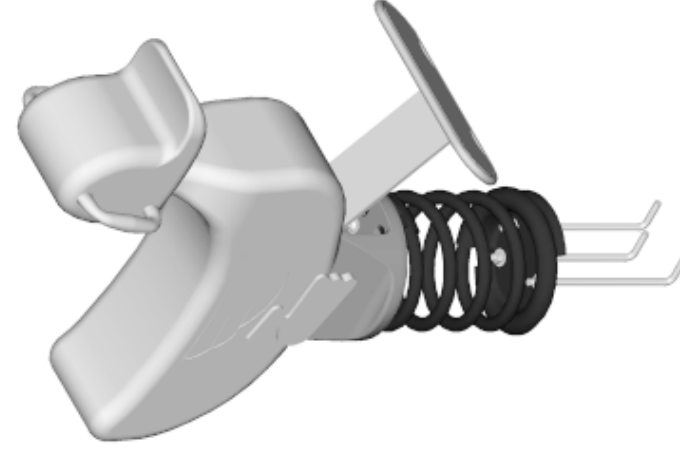
Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
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Page 5 of 14



Model XX0404
 PA-820



Assembly View

Installation Preparation . . .

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 64.4 Lbs. (29 Kilos)
 Concrete Required: 0.07 cubic yard
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 2 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

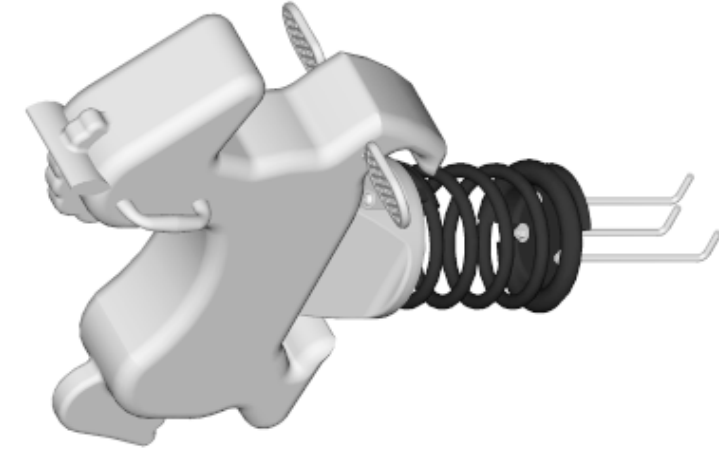
Maintenance . . .

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Model XX0721
 PA-627



Assembly View

INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0729
 ZEBRA
 w/ Coil Spring

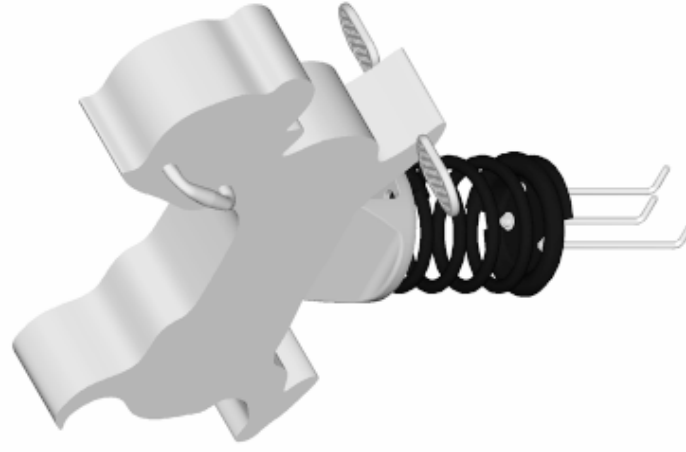
Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 68 Lbs. (31 Kilos)
 Concrete Required: .07 cubic yard
 Use Zone: 72 in. (1829 mm) all sides
 User Group: Ages 2 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Assembly View

INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0737
 CHIPMUNK
 w/ Coil Spring

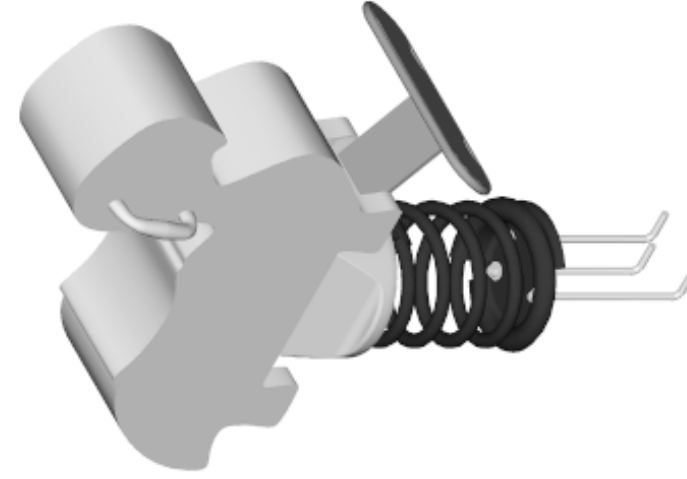
Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: Approx. hours
 Weight: 61 Lbs. (28 Kilos)
 Concrete Required: Approx. 2 cubic feet
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 2 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Assembly View

INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0741
 TURTLE W/ COIL SPRING

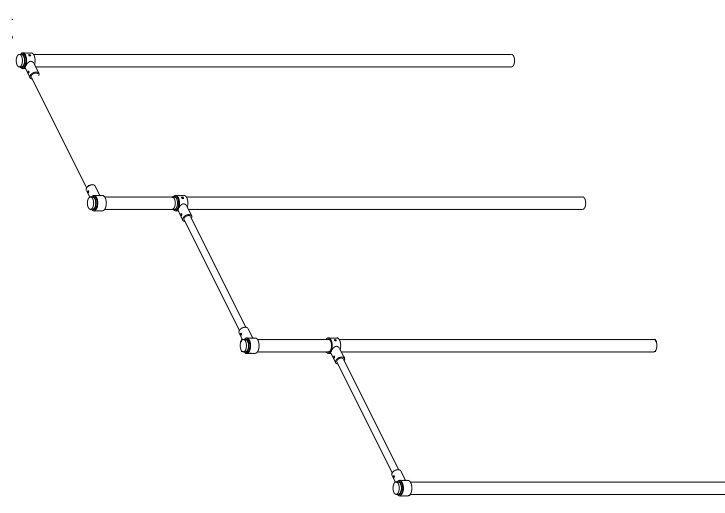
Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 65.5 Lbs. (29.8 Kilos)
 Concrete Required: 0.07 cubic yard
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 2 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Assembly View

INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX1013
 TRI-LEVEL BARS

Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 2.5 man-hours
 Weight: 53.7 Lbs. (24.2 Kilos)
 Concrete Required: 0.12 cubic yards
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



The world needs play.



Assembly View (representative model)

Installation Instructions

Challengers® Models CH0019, CH0029, CH0039, CH0049, CH0059, CH0069, CH0077, CH0137, CH0139, CH0257, CH0259
Steel Support Post w/o Cap
100 in. (2540 mm) to 224 in. (5690 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Concrete Required: 0.13 cubic yard (0.10 cubic meters)



The world needs play.



Assembly View (representative model)

Installation Instructions

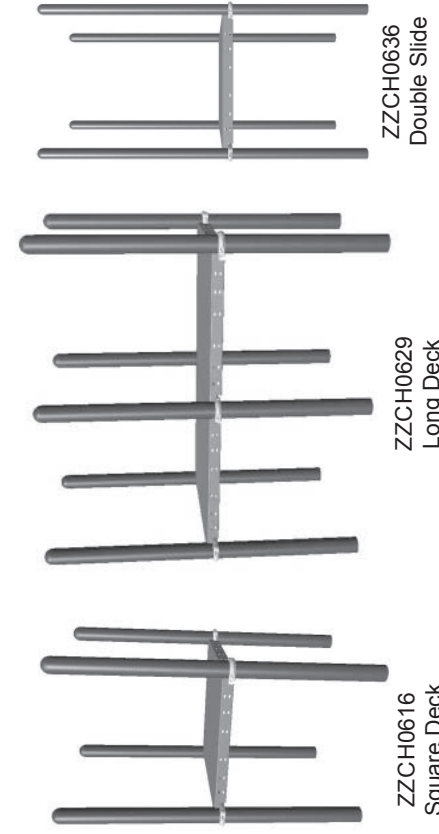
Challengers® Models CH0019, CH0029, CH0039, CH0049, CH0059, CH0069, CH0077, CH0137, CH0139, CH0257, CH0259
Steel Support Post w/o Cap
100 in. (2540 mm) to 224 in. (5690 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Concrete Required: 0.13 cubic yard (0.10 cubic meters)



The world needs play.



Assembly View

Installation Instructions

Challengers® Models CH0616, CH0629, and CH0636
Square, Long, and Double Slide
Perforated Deck

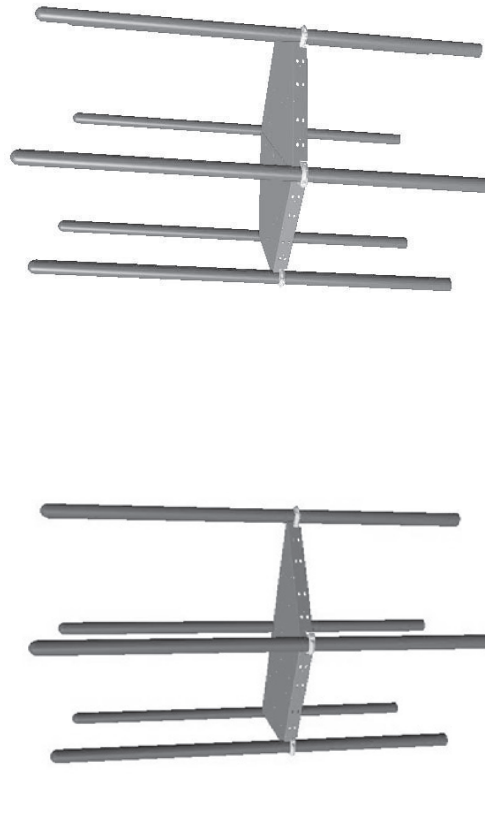
Installation Preparation

Recommended Crew (CH0616-36): Two (2) adults
Recommended Crew (CH0629): Four (4) adults
Installation Time (CH0616-36): 1 man-hour
Installation Time (CH0629): 2 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



The world needs play.



Assembly View

Installation Instructions

Challengers® Models CH0618 and CH0619
Hex and Half Hex Coated Perforated Deck

Installation Preparation

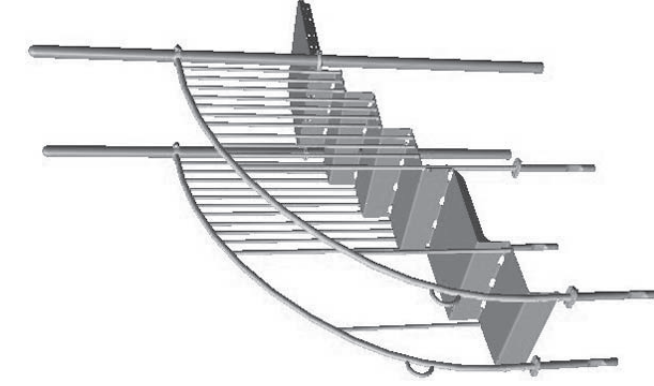
Recommended Crew: Two (2) adults
Installation Time: 1.5 man-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height





The world needs play.



Assembly View (representative model)

Installation Instructions
Challengers® Models CH0678, CH0678S, CH0679 and CH0679S
Nuvo™ Transfer Station
48 in. (1219 mm) and 36 in. (914 mm) Decks
In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (In-ground): 3.5 man-hours
Installation Time (Surface Mount): 1.5 man-hours
Concrete Required: 0.12 cubic yard (0.08 cubic meters)
Use Zone: Refer to the master layout drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



The world needs play.

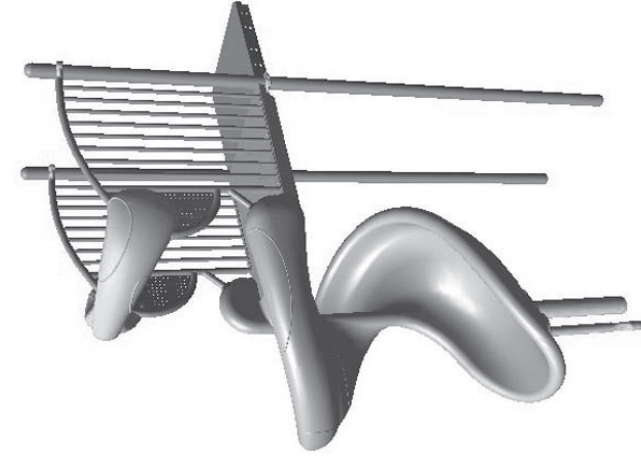


Assembly View (representative model)

Model	Deck Height
CH3128	24-30" (610-762 mm)
CH3127	36" (915 mm)
CH3126	48" (1220 mm)
CH2658	60" (1525 mm)
CH2696	72" (1830 mm)



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Assembly View (representative model)

Installation Instructions
Challengers® Models CH3537 and CH3537S
Nuvo™ 360° Spiral Slide
In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time (In-ground): 6 man-hours
Installation Time (surface mount): 5 man-hours
Concrete Required: 0.15 cubic yard (0.11 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



The world needs play.



Assembly View

Installation Instructions
Challengers® Model CH4290
Post Mounted Steering Wheel

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



The world needs play.

Installation Instructions
Challengers® Models CH4556, CH4557,
CH4558, and CH4559
7 in. (178 mm), 8 in. (203 mm),
9 in. (229 mm), and 10 in. (254 mm)
Bell (Post Mount)

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.25 hour
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

Assembly View (representative model)

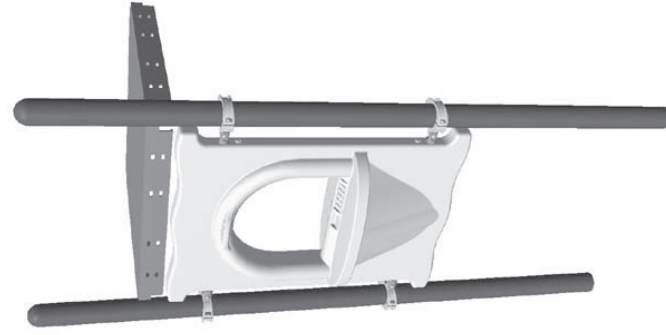
Model	Bell Diameter
ZZCH4556	7" (178 mm)
ZZCH4557	8" (203mm)
ZZCH4558	9" (229 mm)
ZZCH4559	10" (254 mm)



Models CH4556, CH4557, CH4558, CH4559
ECN2302



The world needs play.



Assembly View

Installation Instructions
Challengers® Model CH4646
Storefront Panel

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-5, EN: 1-6

ICON KEY

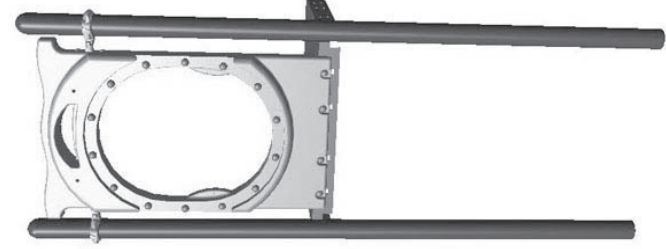
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Drill
	Hammer		Critical Fall Height



Model CH4646
PA 768



The world needs play.



Assembly View

Installation Instructions
Challengers® Model CH4807
Oval Insert Panel
(Deck Mount)

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.5 installation-hours
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY

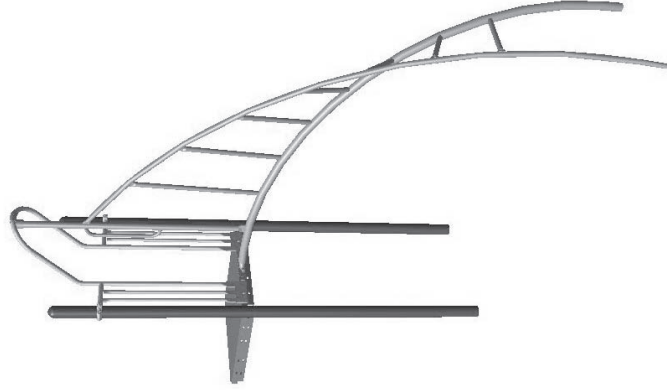
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



Model CH4807
ECN 1858



The world needs play.



Assembly View (representative model)

Installation Instructions
Challengers® Models CH7160,
CH7166, and CH7167
Twisted Climber

6 ft. (1829 mm), 7 ft. (2134 mm), and 8 ft. (2438 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 2 installation-hours
Concrete Required: 0.6 cubic yard (0.4 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY

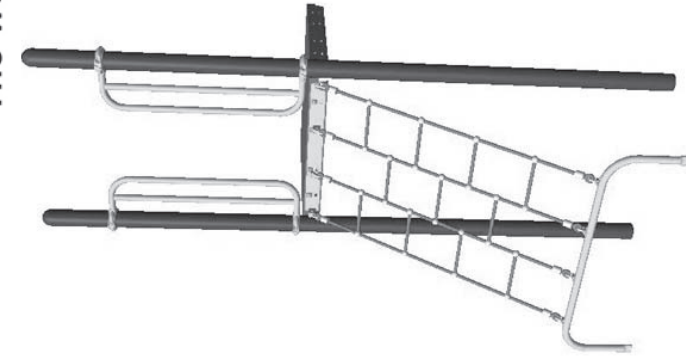
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do Not Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



Models CH7160, CH7166, CH7167
PA 1174



The world needs play.



Assembly View (representative model)

Model	Deck Height
ZZCH7226	36" (915 mm)
ZZCH7227	48" (1220 mm)

Page 1 of 8



Models ZZCH7226 and ZZCH7227
ECN 1788

Installation Instructions Challengers® Models CH7226 and CH7227 Rope Climber

36 in. (914 mm) and 48 in. (1219 mm) Decks

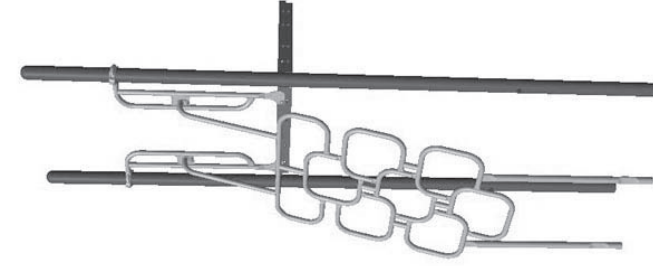
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 2 hours
 Concrete Required: 0.06 cubic yard (0.05 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive



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Assembly View (representative model)

Model	Deck Height
ZZCH8260	48" (1220 mm) and 54" (1372 mm)
ZZCH8270	60" (1525 mm) and 66" (1676 mm)
ZZCH8280	72" (1830 mm)

Page 1 of 8



Models CH8260, CH8270, CH8280
ECN 1498

Installation Instructions Challengers® Models CH8260, CH8270, and CH8280 Hopscotch Climber

48 in. (1219 mm), 54 in. (1372 mm), 60 in. (1524 mm),
66 in. (1676 mm), 72 in. (1829 mm)

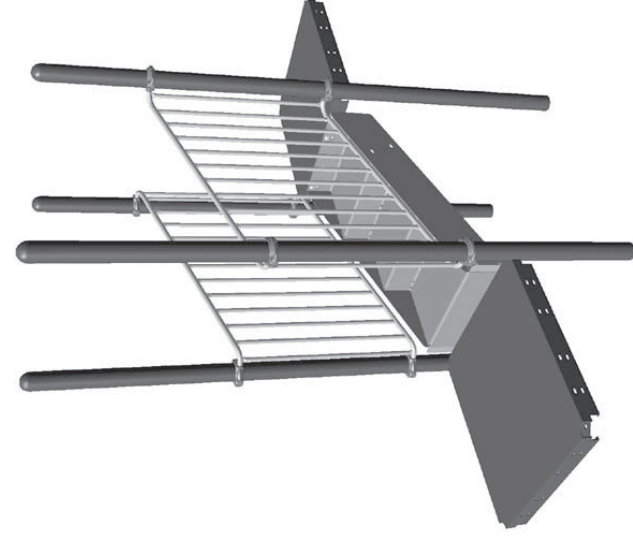
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Concrete Required: 0.06 cubic yard (0.05 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive



The world needs play.



Assembly View (representative model)

Installation Instructions Challengers®

Models CH9168, CH9170 and CH9177
Deck to Deck Accessible Tiered Platform
12 in. (305 mm), 24 in. (610 mm) and
36" (914 mm) Rise Height

Installation Preparation

Recommended Crew: Two - Three (2-3) adults
 Installation Time: 2 man-hours
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive

Page 1 of 8



Models CH9168, CH9170, CH9177
ECN2382



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Assembly View (representative model)

Model	Size
ZZCH9847	Small
ZZCH9848	Medium
ZZCH9849	Large

Page 265



Installation Instructions Challengers® Model CH9847-9849 Small, Medium, and Large Lollitops Roof

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 0.5 installation-hour
 Use Zone: Refer to Master Drawing

ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive

Page 1 of 5



Model CH9847, CH9848, CH9849
PA 0987



The world needs play.



Assembly View (representative model)

Model	Size
ZZCH9847	Small
ZZCH9848	Medium
ZZCH9849	Large

Page 1 of 5

Model CH9847, CH9848, CH9849
PA 0987



Installation Instructions Challengers® Model CH9847-9849 Small, Medium, and Large Lollipops Roof

Installation Preparation

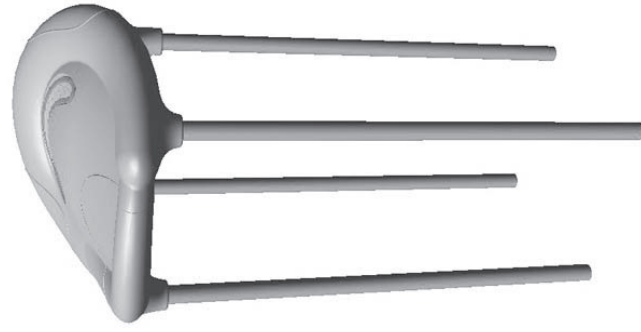
Recommended Crew: Two (2) adults
Installation Time: 0.5 installation-hour
Use Zone: Refer to Master Drawing

ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive

Page 1 of 6



The world needs play.



Assembly View

Installation Instructions Challengers® Model CH9868 Nuvo Swirl Roof

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour

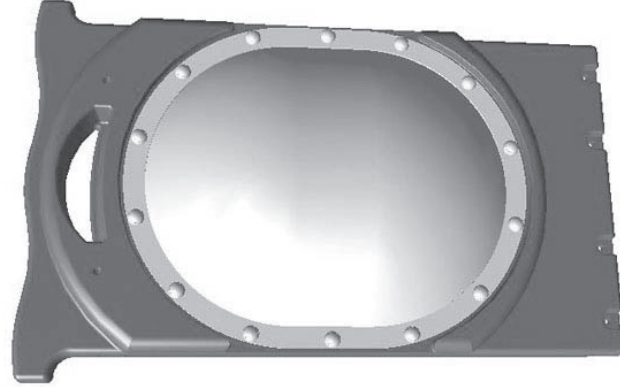
ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive

Page 1 of 4

Model CH9868
ECN2448



The world needs play.



Assembly View

Installation Instructions Universal Model UN4796 Oval Bubble Panel Insert

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Use Zone: Refer to Master Drawing

ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive

Page 1 of 2

Model UN4796
ECN 1350



The world needs play.



Assembly View

Installation Instructions Universal Model UN9910 Surface Warning Label

Installation Preparation

Recommended Crew: One (1) adult
Installation Time: 15 to 20 min

ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive

Page 1 of 2

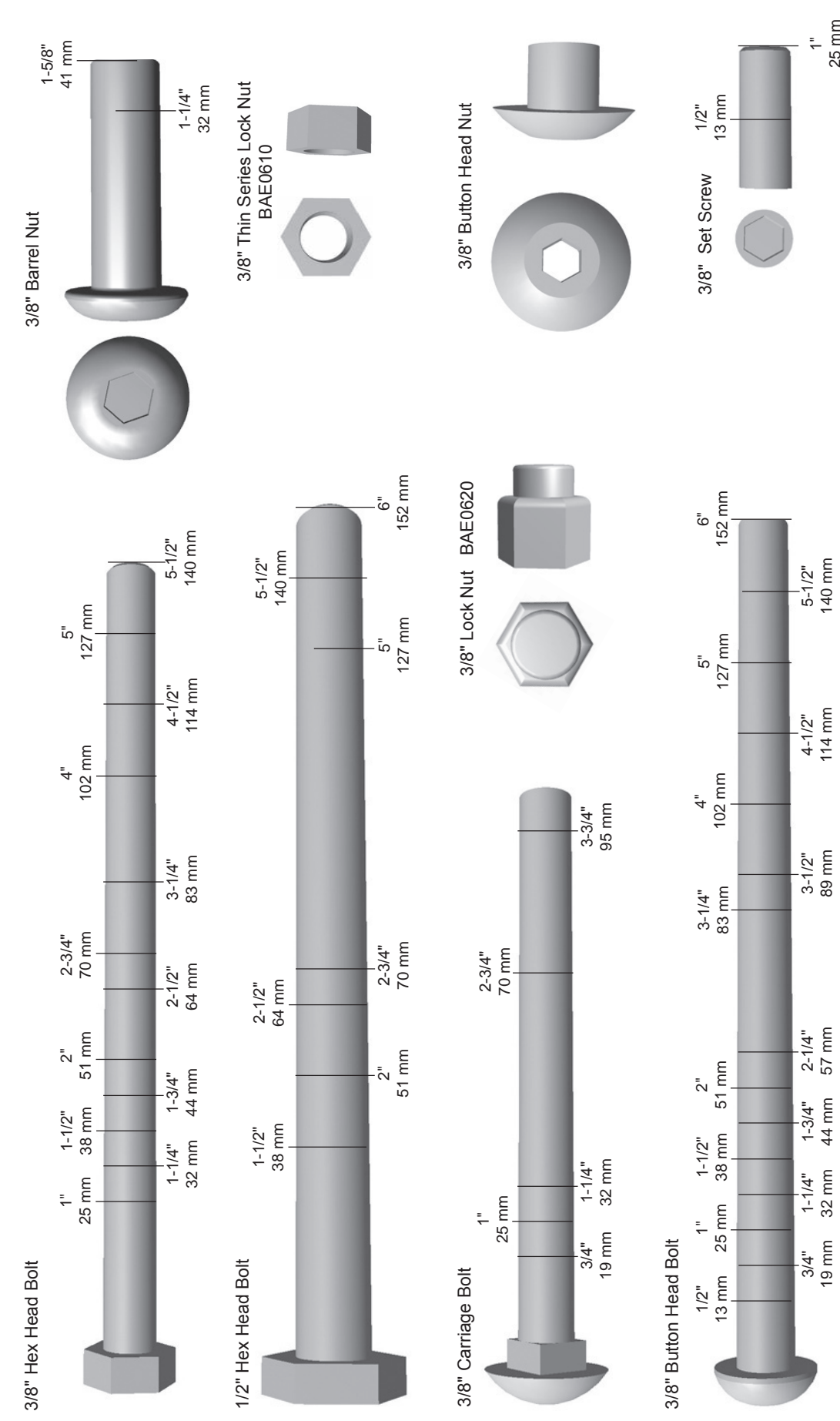
Model UN9910
ECN 774



Installation Guidelines

HARDWARE GUIDE

The following are full scale drawings of the hardware commonly used in structure assembly. During installation, use these drawings as a quick reference.

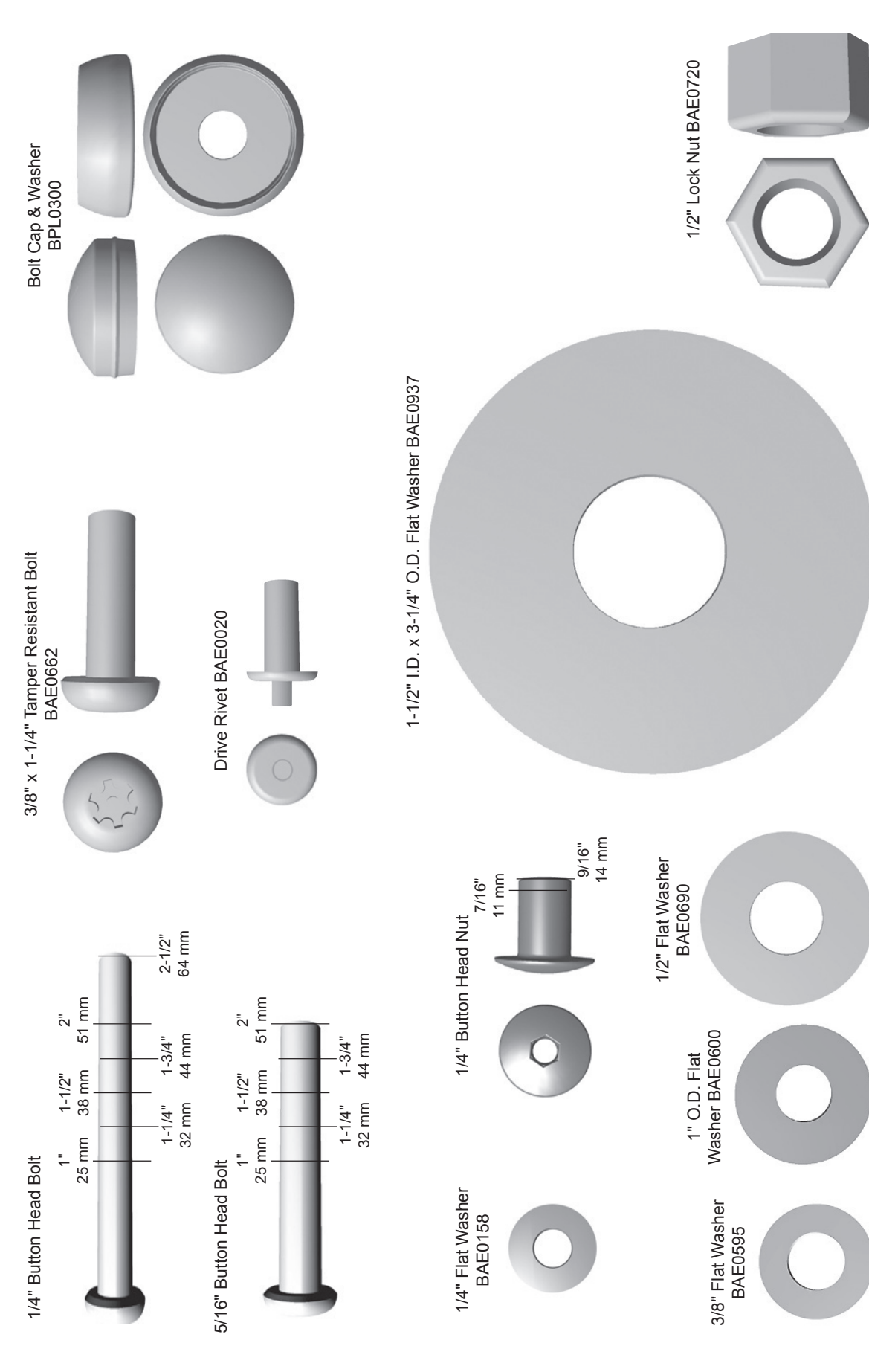


Page 8 of 14

Model ZZCHGUID
ECN 1538

Installation Guidelines

HARDWARE GUIDE



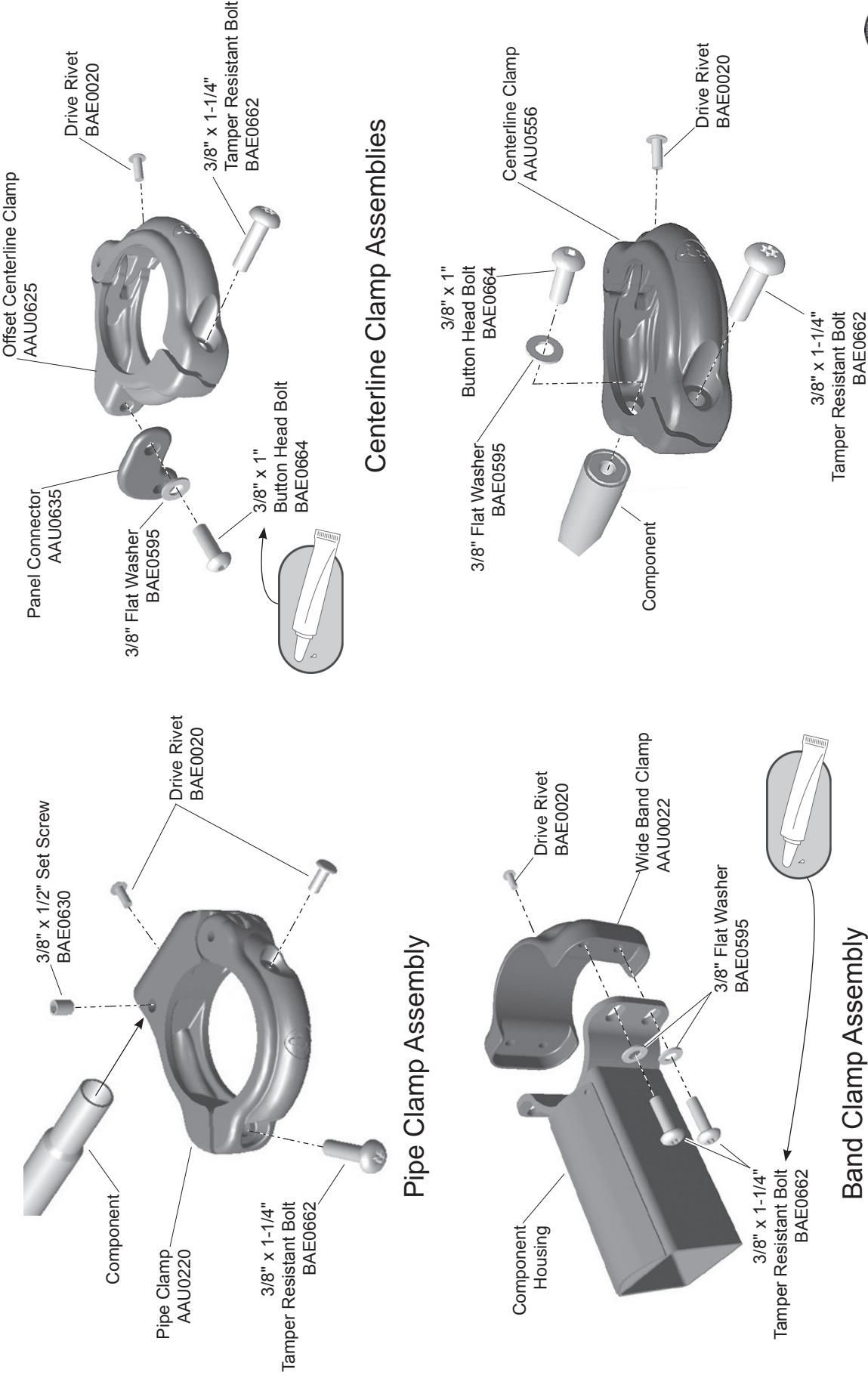
Page 9 of 14

Model ZZCHGUID
ECN 1538

Installation Guidelines

CHALLENGERS® CLAMP ASSEMBLIES

We have provided the following typical assembly drawings of the Challengers® clamps for your reference.



Page 10 of 14

Model ZZCHGUID
ECN 1538



MT NITTANY ELEMENTARY

Installation Instructions

Challengers® Models CH0009GZ,
CH0038GZ, CH0058GZ, & CH0068GZ
GroundZero® Steel Support Post w/ Cap
112 in. (2845 mm), 148 in. (3759 mm),
172 in. (4369 mm) & 184 in. (4674 mm)

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table on the next page)
Concrete Required: 0.18 cubic yard (0.14 cubic meters)

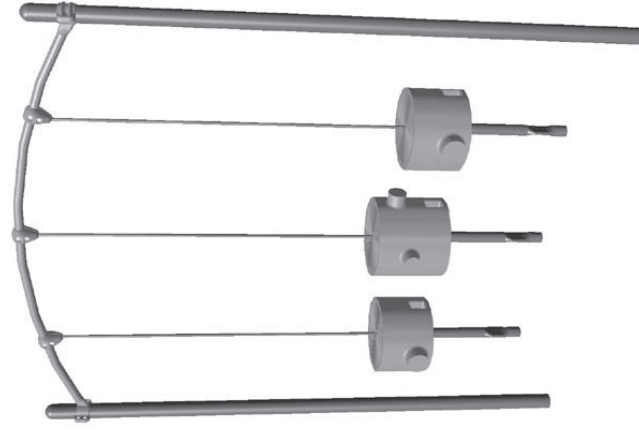
Assembly View (representative model)



Page 1 of 4

Models CH0009GZ, CH0038GZ, CH0058GZ, & CH0068GZ
ECN 343, PA 908, PA 1207

PLAYWORLD™



Assembly View



Page 1 of 7

Model CH8390
ECN 1880

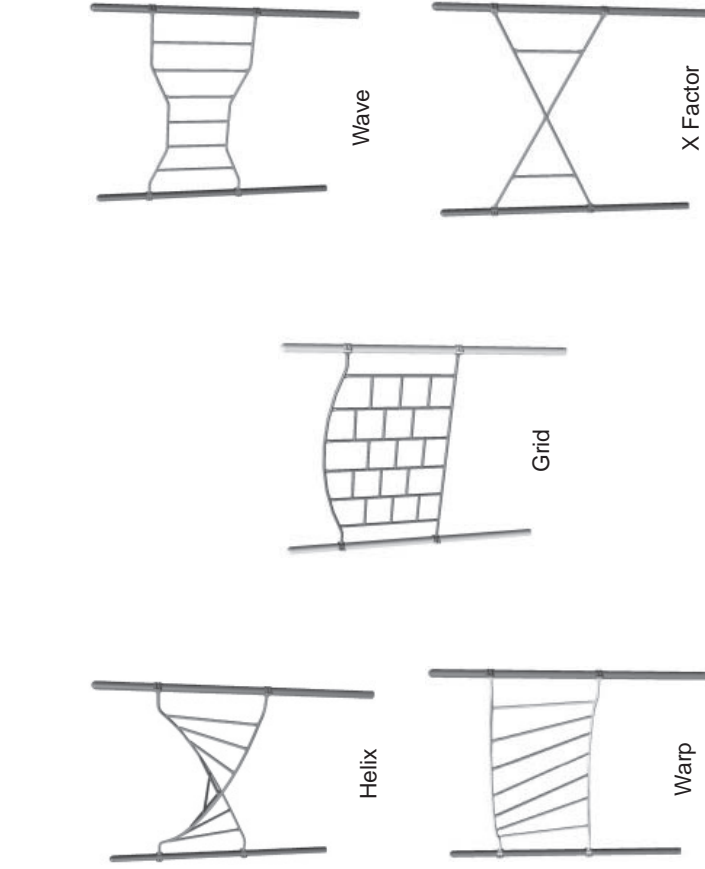
Installation Instructions Challengers® Model CH8390 GroundZero® Adventure Stump Jump

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 3 man-hours
Weight: 197.9 lbs. (89.9 kg)
Concrete Required: 0.09 cubic yard (0.06 cubic meters)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 2-14

ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive

PLAYWORLD™



Assembly View

Models	Climber Name	Weight
ZZCH8398	Helix	81.8 lbs. (37.2 kg)
ZZCH8399	Wave	66.6 lbs. (30.3 kg)
ZZCH8400	Warp	90.8 lbs. (41.3 kg)
ZZCH8406	X Factor	48 lbs. (21.8 kg)
ZZCH8408	Grid	103.7 lbs. (47.1 kg)



Page 1 of 7

Models CH8398-CH8400, CH8406, & CH8408
PA 1099

Installation Instructions Challengers®

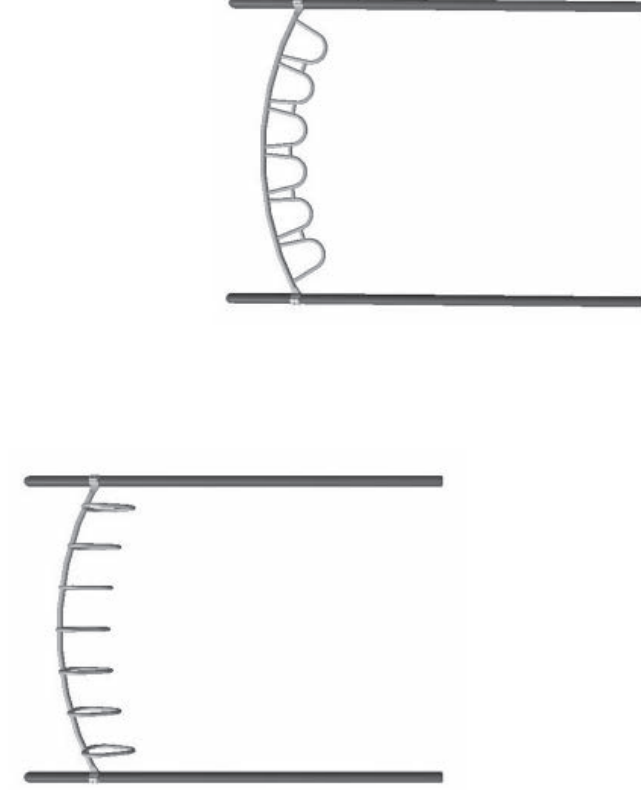
Models CH8398-CH8400, CH8406 & CH8408
GroundZero® Adventure Climbers

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 1 man-hour
Weight: (refer to table)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive

PLAYWORLD™



Assembly View (representative model)

Model	Name	Weight
ZZCH8450	The Sky Link	45.7 lbs. (20.8 kg)
ZZCH8456	The Sky Arch	40.3 lbs. (18.3 kg)

Installation Instructions Challengers® Models CH8450 & CH8456 The Sky Link & The Sky Arch

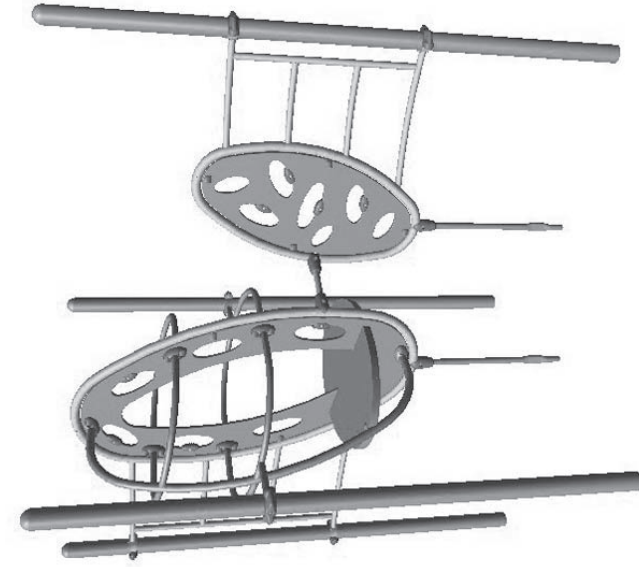
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 0.5 installation-hours
Weight: (refer to table)
Use Zone: Refer to Master Drawing
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	Fully Tighten Hardware	Add 1 Drop of Thread Locking Adhesive

Page 1 of 6

Models CH8450 & CH8456
PA 1177



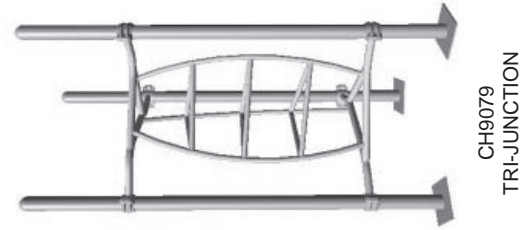
Assembly View (representative model)

Installation Instructions Challengers® Models CH9070 and CH9070S Oval Crater Junction In-Ground and Surface Mount

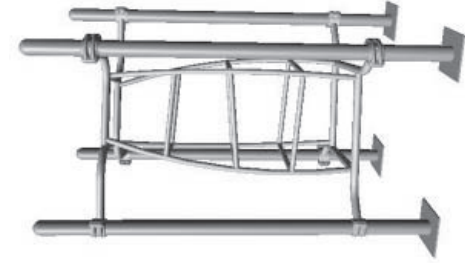
Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time (in-ground): 3 man-hours
 Installation Time (surface mount): 2 man-hours
 Concrete Required (in-ground): 0.06 cubic yard (0.04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



CH9079
TRI-JUNCTION



CH9080
QUAD-JUNCTION

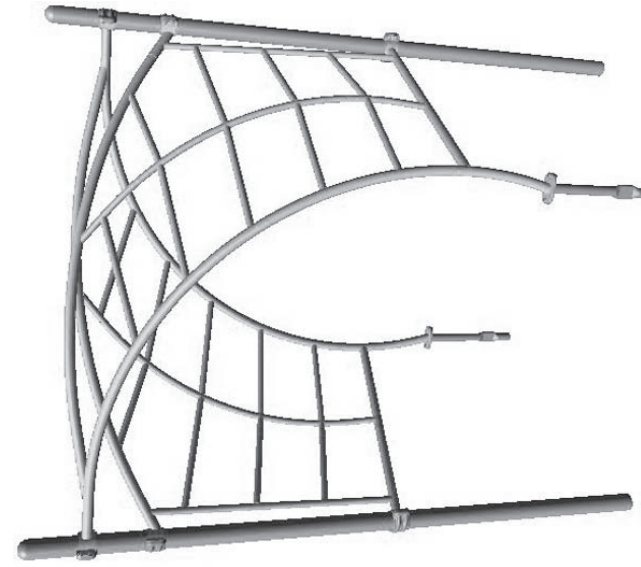
Assembly View

Installation Instructions Challengers® Models CH9079 and CH9080 Adventure Series Tri-Junction and Quad Junction Climbers

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time: 0.5 man-hour
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



Assembly View (representative model)

Installation Instructions Challengers® Models CH9087 and CH9087S Adventure Series Crossover Climber In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
 Installation Time (in-ground): 1.5 man-hours
 Installation Time (surface mount): 0.5 man-hour
 Concrete Required (in-ground): 0.06 cubic yard (0.04 cubic meters)
 Use Zone: Refer to Master Drawing
 User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



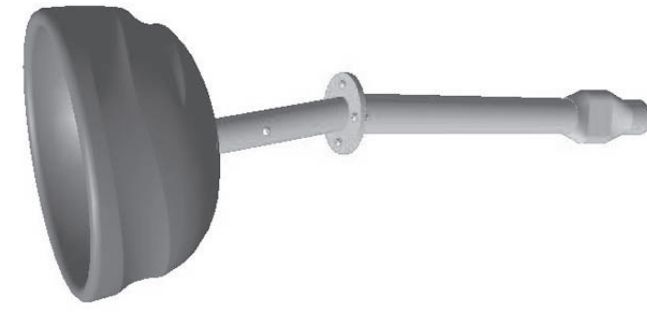
Assembly View

Installation Instructions Universal Model UN9910 Surface Warning Label

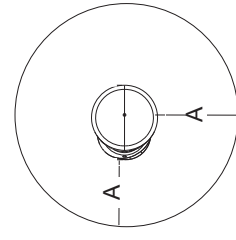
Installation Preparation

Recommended Crew: One (1) adult
 Installation Time: 15 to 20 min

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



Assembly View



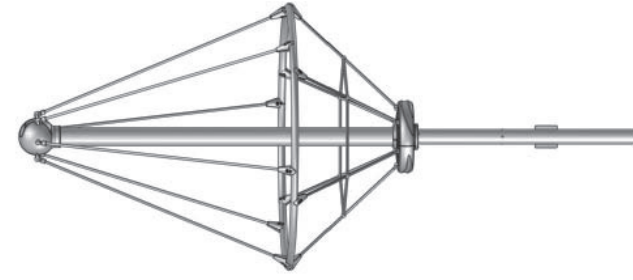
Equipment Use Zone
A - ASTM: 72 in. (1830 mm)
A - CSA: 1600 mm
A - EN: 2000 mm

Installation Instructions
Playworld Systems® Model XX0065
Spincup

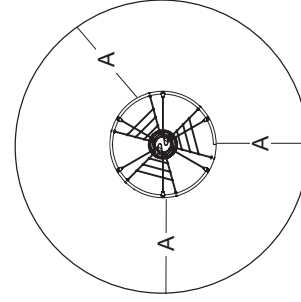
Installation Preparation

Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Concrete Required: 0.06 cubic yard (0.04 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



Assembly View



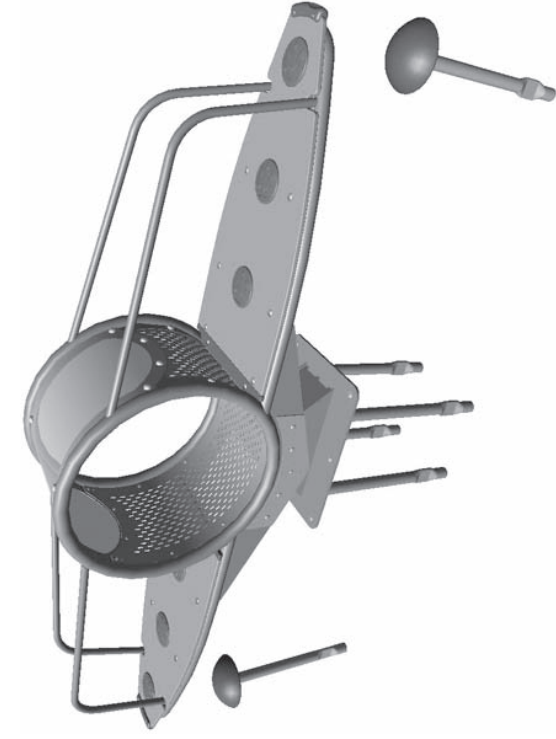
Equipment Use Zone
A - (ASTM) 72 in. (1830 mm)
A - (CSA) 1800 mm
A - (EN) 2000 mm

Installation Instructions
Playworld Systems® Model ZZZX0151
Spinami

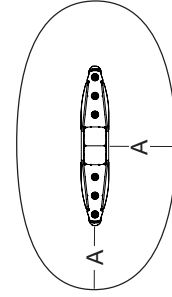
Installation Preparation

Recommended Crew: Three (3) adults
Installation Time: 6 man-hours
Concrete Required: 0.33 cubic yard (0.26 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



Assembly View (representative structure)



Rocking/Springing Equipment
Intended for Standing Use Zones
A =
ASTM: 84 in. (2134 mm)
CSA: 2100 mm
EN: 1500 mm

Installation Instructions
Playworld Systems®
Models XX0182 and XX0182S
Unity Teeter Tunnel

Installation Preparation

Recommended Crew: Four (4) adults
Installation Time: 12 man-hours (In-Ground)
Installation Time: 9 man-hours (Surface Mount)
Concrete Required (In-Ground): 0.78 cubic yard (0.60 cubic meters)
Use Zone: Refer to the information below
User Group Age (years): ASTM/CSA: 5-12, EN: 6-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



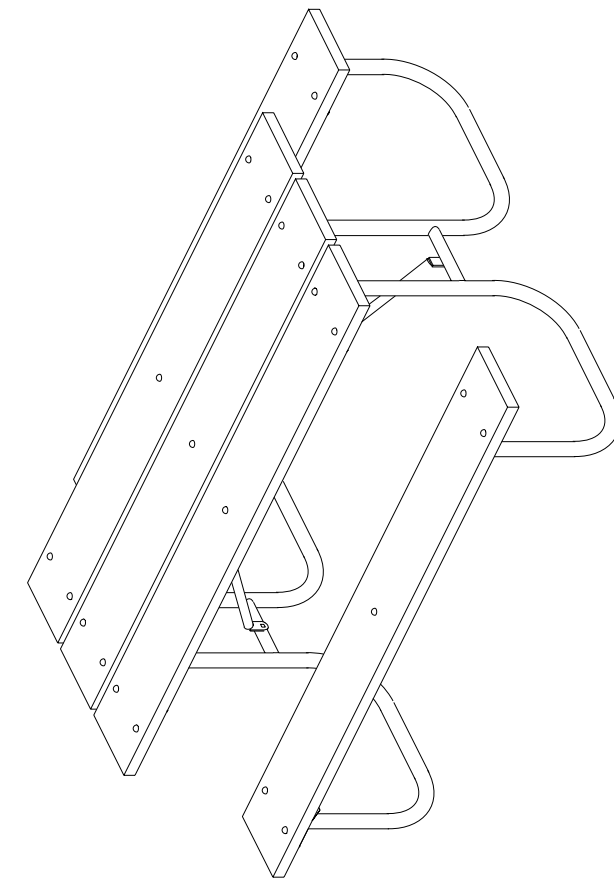
Assembly View (representative structure)

Installation Instructions
Playworld Systems®
Models XX0199 and XX0199S
Hoopla Swing
In-Ground and Surface Mount

Installation Preparation

Recommended Crew: Two (2) adults
Installation Time (In-Ground): 4 man-hours
Installation Time (Surface Mount): 2 man-hours
Concrete Required: 0.52 cubic yard (0.40 cubic meters)
Use Zone: Refer to the information on page 1
User Group Age (years): ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height



Assembly View

Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: Approx. 1 hour
 Weight: 218 Lbs. (99 Kilos)

Torque Specification:
 Bolts & Nuts: Snug tighten and tighten an additional one-half turn.

Maintenance . . .
 • Playworld Systems strongly recommends routine inspection to insure that all fasteners are secure and that there is no damage that would cause injury or improper function of the equipment.



Model XX9110
SE-1932

Page 1 of 5

Park Forest Elem. School



CHALLENGER

DRAWING NUMBER: 981462

Ref.	Part No.	Description	Qty.
1	CH0775	Square Vinyl Deck Assembly	4
2	CH0795	Triangular Vinyl Coated Deck Assembly	3
3	CH0920	156" Support Post w/Riveted Cap	3
4	CH0930	139" Support Post w/Riveted Cap	13
5	CH0940	108" Support Post w/Riveted Cap	5
6	CH2005	Transfer Station (36" Deck)	1
7	CH2530	12' Deck to Deck Kick Plate	3
8	UN2255	Approach Step For Transfer Station	1
9	CH2780	(1) Piece 360° Spiral Slide	1
10	CH2805	Spiral Slide Entry Support Bracket	1
11	CH2970	90° Lightning Slide (36" Deck)	1
12	CH4090	Centerline Pipe Wall Barrier	2
13	CH5790	10' Horizontal Loop Ladder	1
14	CH6960	Up And Over Climber w/156" Support Post	1
15	CH6970	Climb Across	1
16	CH6441	10' Vinyl Coated Chain Bridge	1
17	CH6550	10' Adventure Bridge	1
18	CH7410	Deep Rung Arch Climber (48" Deck)	1
19	CH7510	Ladder Climber (60" Deck)	1
20	CH7550	(1) Climbing Rung w/(2) Activity Barriers	1
21	UN7650	Tree Climber Assembly (36" Deck)	1
22	UN7850	Beanstalk Climber (36" Deck)	1
23	CH9990	Challenger Tools & Additional Parts Kit	1
24	UN9910	Surfacing Warning Label Kit	1
25	UN9930	Maintainence Kit	1

The modular unit will accommodate approximately 67 users and take approximately 64.4 hours to install by a professional installation team of 3 people. The modular unit will also require approximately 3.84 yards of concrete for footings.

Monday, August 17, 1998

Page 1 of 1

VIP-601

Design No: VIP-601 - Bill of Materials

Ref. No.	Part Number	Description	Quantity
Climbers			
1	ZZUN0176	ROCKBLOCKS Z SUPPORT (60in WALL)	1
2	ZZUN0177	ROCKBLOCKS Z SUPPORT (84in WALL)	1
3	ZZUN8356	ROCKBLOCKS TRI LADDER (84in WALL)	1
4	ZZUN8357	ROCKBLOCKS KINKED WALL (84in)	2
5	ZZUN8360	ROCKBLOCKS END WALL (60in)	2
6	ZZUN8369	ROCKBLOCKS END WALL (84in)	1
7	ZZUN8370	ROCKBLOCKS 90 DEGREE WALL (84in TO 60in) RIGHT	1
8	ZZUN8376	ROCKBLOCKS LADDER (60in TO 84in WALL)	1
Additional Tool & Maintenance Kits			
9	ZZCHGUID	CHALLENGER GUIDELINES	1
10	ZZUN9910	SURFACING WARNING LABEL KIT	1
11	ZZUN9930	PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL	1
12	ZZUN9990	TOOL AND ADDITIONAL PARTS KIT W/AEROSOL	1

350-FF_C

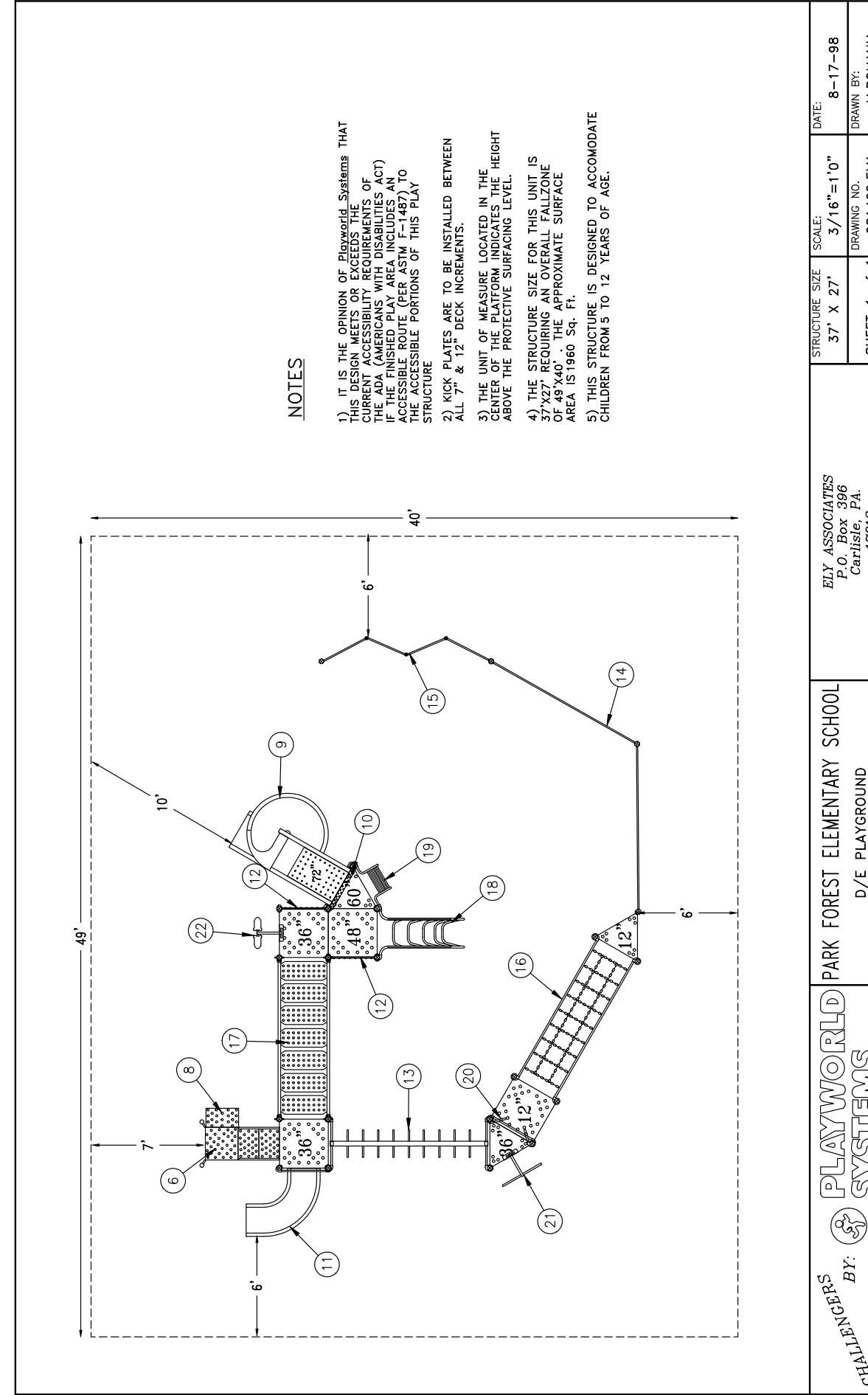
Design No: 350-FF_C - Bill of Materials

Ref. No.	Part Number	Description	Quantity
Posts			
1	ZZCH0009GZ	3.5in OD x 112in GROUND ZERO POST	2
Balance			
2	ZZCH6906	FLIP FLOP	1
Additional Tool & Maintenance Kits			
3	ZZCHGUID	CHALLENGER GUIDELINES	1
4	ZZUN9910	SURFACING WARNING LABEL KIT	1
5	ZZUN9936	MAINTENANCE BOOK	1
6	ZZUN9990	TOOL AND ADDITIONAL PARTS KIT W/AEROSOL	1

PARK FOREST ELEMENTARY SCHOOL

Design No: 061169 - Bill of Materials

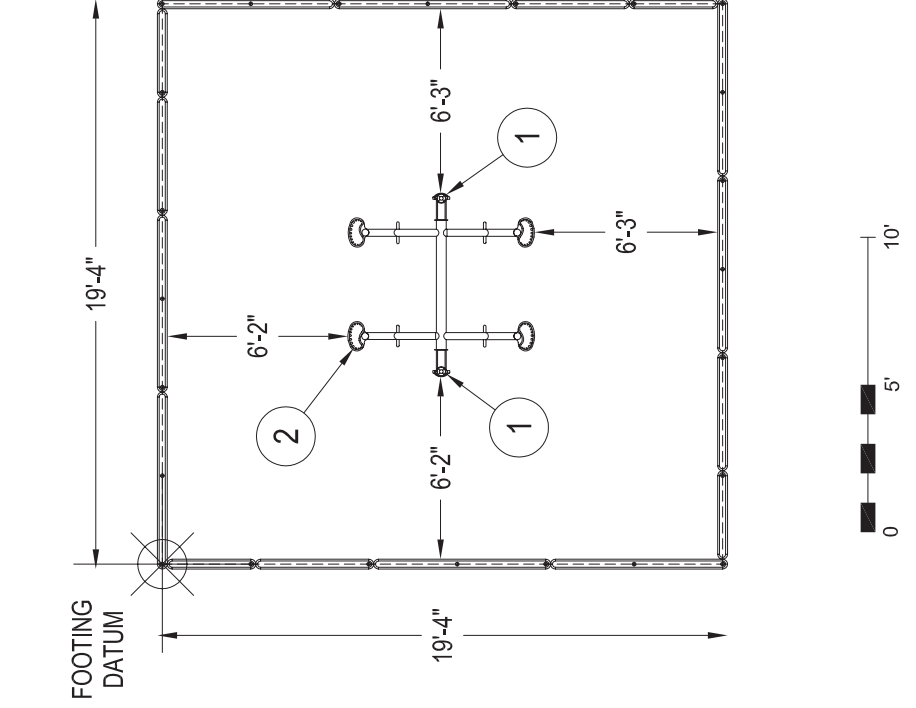
Ref. No.	Part Number	Description	Quantity
	Posts		
1	ZZCH0048	3.5in OD x 160in STEEL POST W/ RIVETED CAP	1
2	ZZCH0068	3.5in OD x 184in STEEL POST POST W/RIVETED CAP	2
	Decks & Kick Plates		
3	ZZCH0617	TRIANGULAR VINYL DECK ASSEMBLY	1
	Slides		
4	ZZCH3148	SLITHER SLIDE BALCONY ENTRY/EXIT	1
5	ZZUN3157	SLITHER SLIDE (RIGHT SECTION)	3
6	ZZUN3158	SLITHER SLIDE (LEFT SECTION)	3
7	ZZUN3167	SLITHER SLIDE SUPPORT LEG 5ft-6in	1
8	ZZUN3176	SLITHER SLIDE SUPPORT LEG 2ft-6in	1
	Barriers		
9	ZZCH4095	CENTERLINE PIPE WALL BARRIER	1
	Climbers		
10	ZZCH6190	24in DECK TO DECK CLIMBER	1
	Stairs and Ladders		
11	ZZCH9166	VINYL COATED LADDER (72in DECK)	1
	Additional Tool & Maintenance Kits		
12	ZZCHGUID	CHALLENGER GUIDELINES	1
13	ZZUN9910	SURFACING WARNING LABEL KIT	1
14	ZZUN9930	PIPE SYSTEMS MAINTENANCE KIT W/ AEROSOL	1
15	ZZUN9990	TOOL AND ADDITIONAL PARTS KIT W/AEROSOL	1



NOTES

- IT IS THE OPINION OF Playworld Systems THAT THIS SYSTEM WILL MEET THE ADA ACCESSIBILITY GUIDELINES FOR PLAY EQUIPMENT FOR CHILDREN WITH DISABILITIES (AMERICANS WITH DISABILITIES ACT) IF THE FINISHED PLAY AREA INCLUDES AN ACCESSIBLE ROUTE TO ALL THE ACCESSIBLE PORTIONS OF THIS PLAY STRUCTURE.
- KICK PLATES ARE TO BE INSTALLED BETWEEN ALL 7' & 12' DECK INCREMENTS.
- THE UNIT OF MEASURE LOCATED IN THE CENTER OF THE PLATFORM INDICATES THE HEIGHT ABOVE THE PROTECTIVE SURFACING LEVEL.
- THE STRUCTURE SIZE FOR THIS UNIT IS 64" X 64" X 6". THE APPROXIMATE SURFACE AREA IS 1860 Sq. Ft.
- THIS STRUCTURE IS DESIGNED TO ACCOMMODATE CHILDREN FROM 5 TO 12 YEARS OF AGE.

CHALLENGERS BY: PLAYWORLD SYSTEMS	PARK FOREST ELEMENTARY SCHOOL D/E PLAYGROUND	ELY ASSOCIATES P.O. Box 17013 Carlisle, PA	STRUCTURE SIZE: 37' X 27'	SCALE: 3/16" = 1'-0"	DATE: 8-17-88
			SHEET 1 of 1	DRAWING NO: 981462.ELY	DRAWN BY: M.ROMANIA



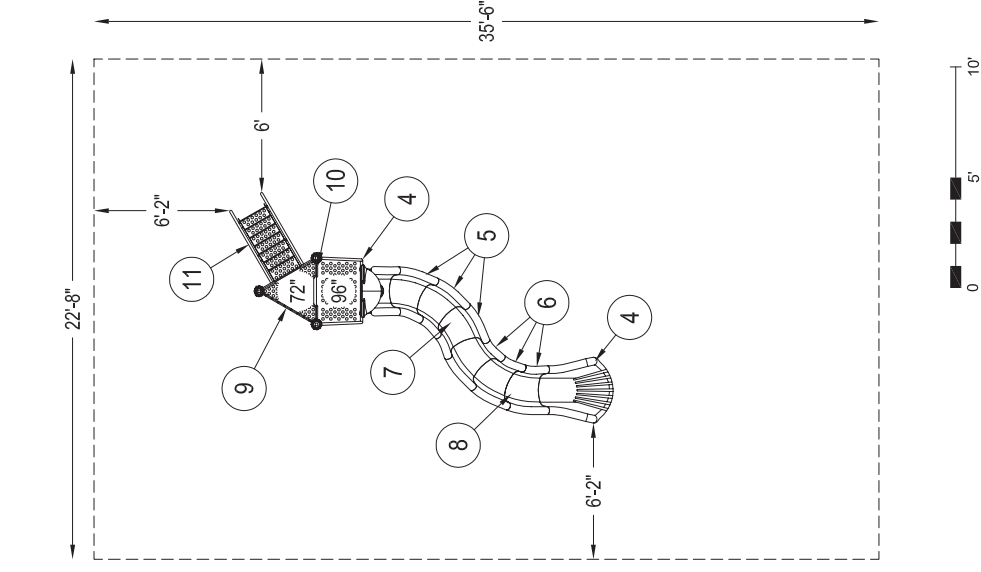
BORDER TIMBERS
 8 - 6" TIMBERS
 4 - 4" TIMBERS
 4 - 3" TIMBERS
 0 - 2" TIMBERS
 0 - END CAP PKG.

PROJECT NO:	350-FFDIR	REV:	C	DATE:	08-FEB-06
STRUCTURE SIZE:	64" X 64" X 6"	SCALE:	1/4" = 1'-0"		
SITE PLAN		DRAWN BY:	CHIP ZECHMAN		

PLAYWORLD
 When trust matters™
Playworld is a registered trademark of Playworld Systems, Inc.

350-FF
 2006 CATALOG

Playworld Systems, Inc.
 1000 Buffalo Road
 Lewisburg, PA
 17837-9795 USA



2006 CHALLENGERS

- NOTES:**
- This play system was designed to the customers specifications. As shown, it does not meet the ADA Accessibility Guidelines for Play Equipment for Children with Disabilities published by the Architectural and Transportation Barriers Compliance Board, based on the criteria listed below. Contact your Playworld Systems playground consultant to make any necessary changes to the design.
 - An accessible route must be provided to the play area.
 - Of the 12 elevated play activities, 11 must be along an accessible route.
 - Of the 12 elevated play activities are accessible by transfer stations.
 - Of the 12 elevated play activities are accessible by ground level play must be provided, as required by I.A.V.I. document "36 CFR Part 1191", Table 156.6.2.2.
 - At least one of each type of ground level play activity must be along an accessible route.
 - At least one of each type of ground level play activity must be along an accessible route.
 - This site plan should be checked against the actual site area prior to the purchase or installation of equipment.
 - Kick plates must be installed between 12" deck increments.
 - The unit of measure located in the center of the platform indicates the height above the protective surfacing level. The height of at least 8 Ft.
 - The structure size for this unit is 105" x 174" x 126". The approximate surface area is 1860 Sq. Ft., as required by ASTM F1487-01 guidelines.
 - This structure is designed to accommodate 6 children from 5 to 12 years of age.
 - Supplies children as they play.
 - To ensure that accurate measurements are obtained from this drawing, print copies on 11 x 17 paper at full scale.
 - This design configuration is the property of this firm and may not be reproduced or used in any manner without the expressed written consent of this firm and Playworld Systems.

PROJECT NO:	061169.ELY	REV:	-	DATE:	9-MAR-06
STRUCTURE SIZE:	105" X 174" X 126"	SCALE:	3/16" = 1'-0"		
SITE PLAN		DRAWN BY:	KYLE FAIT		

PLAYWORLD
 When trust matters™
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PARK FOREST ELEMENTARY SCHOOL
 STATE COLLEGE, PA

ELY ASSOCIATES
 1701 Walnut Bottom Road
 P.O. Box 396
 Carlisle, PA 17013

INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0007
STEEL SUPPORT POST
100 in. (2540 mm) with Cap



Assembly View

Installation Preparation . . .
Installation Time: Approx. 1 hour
Weight: 33 Lbs. (15 Kilos)
Concrete Required: Approx. 3.4 cubic feet
Use Zone: 6 ft. (1829 mm) all sides

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0028
STEEL SUPPORT POST
136 in. (3454 mm) with Cap



Assembly View

Installation Preparation . . .
Installation Time: Approx. 1 hour
Weight: 45 Lbs. (20 Kilos)
Concrete Required: Approx. 3.4 cubic feet
Use Zone: 6 ft. (1829 mm) all sides

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0038
STEEL SUPPORT POST
148 in. (3759 mm) with Cap



Assembly View

Installation Preparation . . .
Installation Time: Approx. 1 hour
Weight: 49 Lbs. (22 Kilos)
Concrete Required: Approx. 3.4 cubic feet
Use Zone: 6 ft. (1829 mm) all sides

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0048
STEEL SUPPORT POST
160 in. (4064 mm) with Cap



Assembly View

Installation Preparation . . .
Installation Time: Approx. 1 hour
Weight: 52 Lbs. (23 Kilos)
Concrete Required: Approx. 3.4 cubic feet
Use Zone: 6 ft. (1829 mm) all sides

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
• Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0058
 STEEL SUPPORT POST
 172 in. (4369 mm) with cap



Assembly View

Installation Preparation . . .
 Installation Time: Approx. 1 hour
 Weight: 56 Lbs. (25 Kilos)
 Concrete Required: Approx. 3.4 cubic feet
 Use Zone: 6 ft. (1829 mm) all sides

Torque Specification:
 Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
 Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
 • Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
 • Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
 • As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0068
 STEEL SUPPORT POST
 184 in. (4674 mm) with Cap



Assembly View

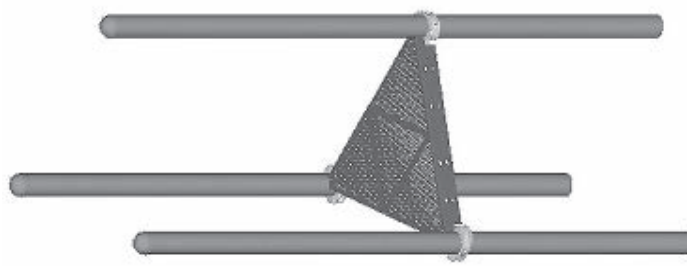
Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 57.1 Lbs. (26 Kilos)
 Concrete Required: 0.13 cubic yards
 User Group: Ages 2 - 12 years

Torque Specification:
 Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
 Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
 • Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
 • Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
 • As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
CHALLENGERS®
MODEL CH0617
 TRIANGULAR PLAYARMOUR® PERFORATED DECK



Assembly View

Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 38.4 Lbs. (17.4 Kilos)
 Use Zone: 72 in. (1829 mm) all sides
 User Group: Ages 2 - 12 years

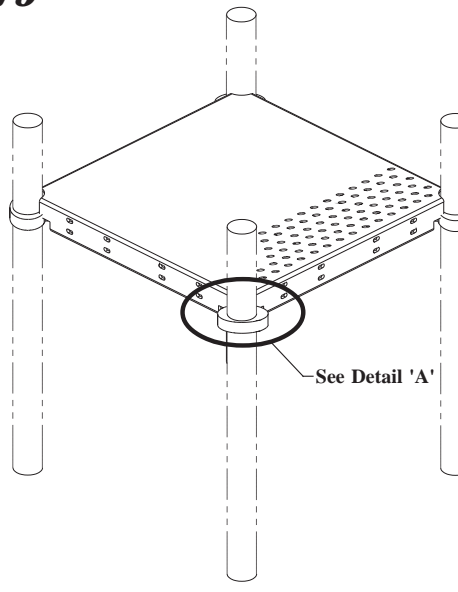
Torque Specification:
 Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
 Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .
 • Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
 • Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
 • As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

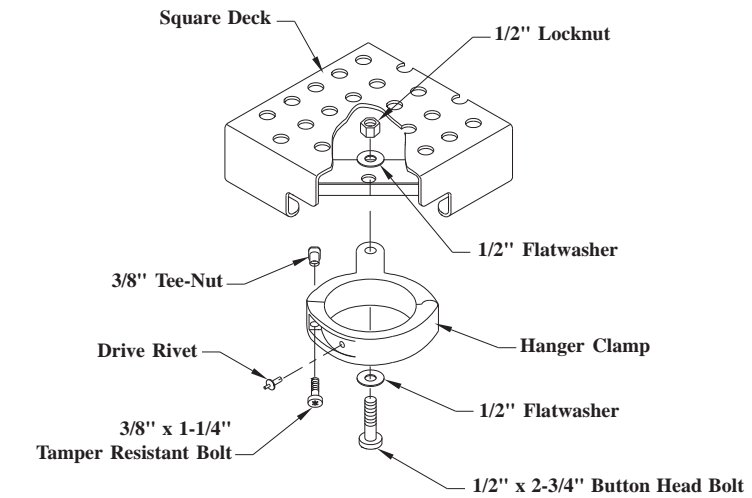


CHALLENGER

SQUARE VINYL DECK
MODEL CH0775



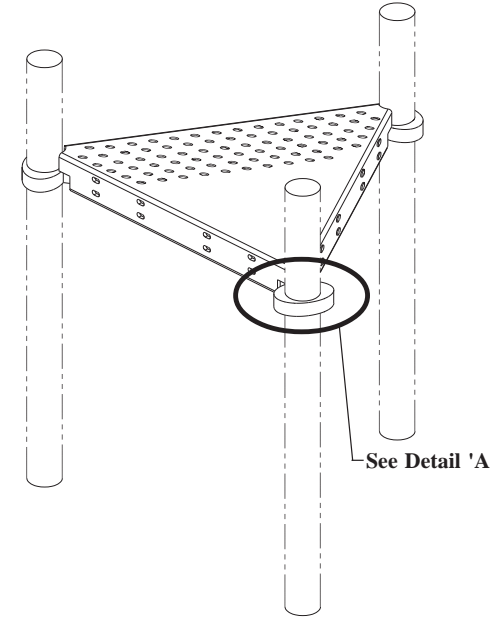
ASSEMBLY VIEW



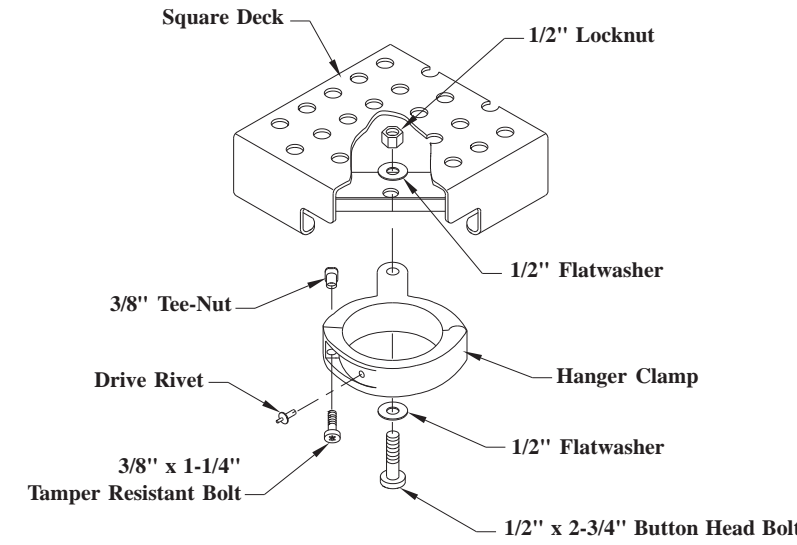
DETAIL 'A'

SQUARE VINYL DECK

TRIANGULAR VINYL DECK MODEL CH0795



ASSEMBLY VIEW



DETAIL 'A'

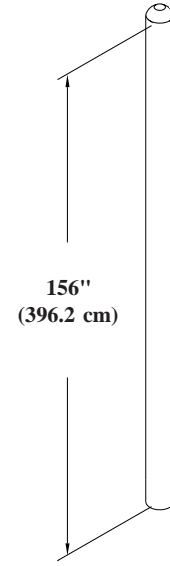


NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030

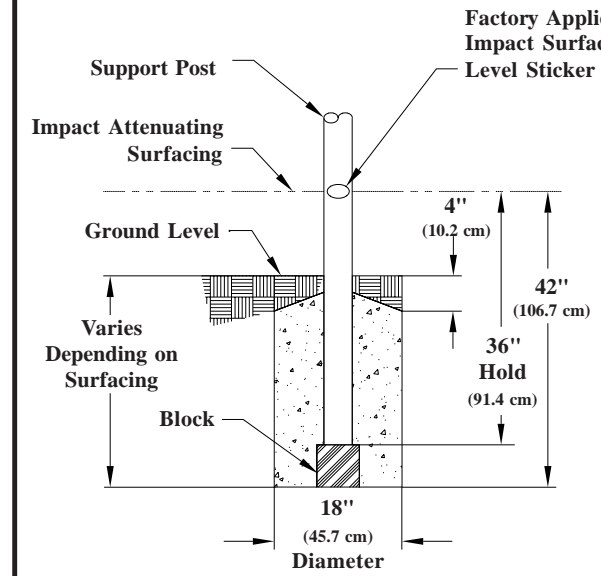
Page 1 of 2

PA483

156" (396.2 cm) POST WITH RIVETED CAP MODEL CH0920



ASSEMBLY VIEW



SUPPORT POST
FOOTING DETAIL

Footing Notes:

- A. Footing depth equals 42" less the depth of the impact attenuating surfacing material. Example: If 12" of wood mulch is used for surfacing, the footing depth would be 30".
- B. All 3-1/2" O.D. Challenger support posts shall have a factory applied sticker with line designating placement of post in relationship to depth of impact attenuating surfacing on a level and clear installation site.
- C. If play unit installed on uneven terrain, maintain support post mark at impact attenuating surface level at lowest grade. Adjust other footings accordingly. Support Posts and all attaching decks and play components must be plumb and level.
- D. Footing size may vary due to local soil and weather conditions.
- E. Base of footing must be below frost line.
- F. Comparison of impact attenuating surfacing materials available in Playground Surfacing Technical Information Guide published by (C.P.S.C.).

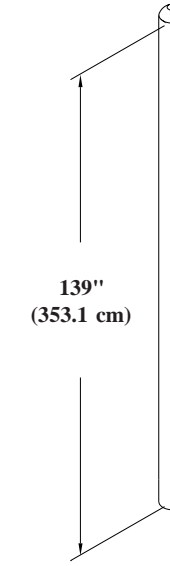


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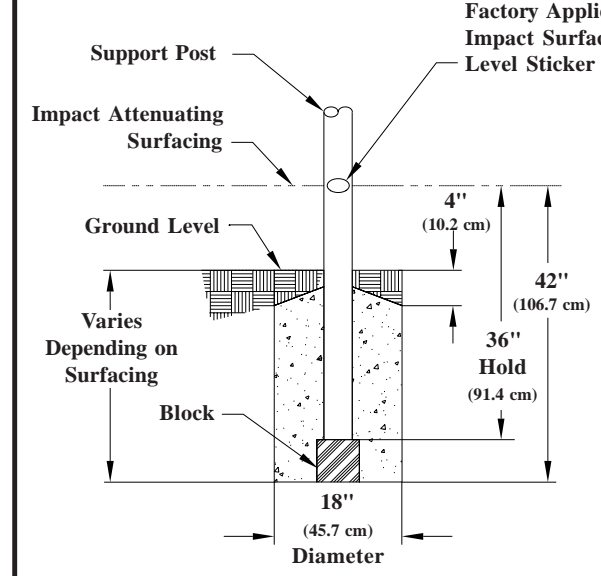
Page 1 of 2

PA436

139" (353.1 cm) POST WITH RIVETED CAP MODEL CH0930



ASSEMBLY VIEW



SUPPORT POST
FOOTING DETAIL

Footing Notes:

- A. Footing depth equals 42" less the depth of the impact attenuating surfacing material. Example: If 12" of wood mulch is used for surfacing, the footing depth would be 30".
- B. All 3-1/2" O.D. Challenger support posts shall have a factory applied sticker with line designating placement of post in relationship to depth of impact attenuating surfacing on a level and clear installation site.
- C. If play unit installed on uneven terrain, maintain support post mark at impact attenuating surface level at lowest grade. Adjust other footings accordingly. Support Posts and all attaching decks and play components must be plumb and level.
- D. Footing size may vary due to local soil and weather conditions.
- E. Base of footing must be below frost line.
- F. Comparison of impact attenuating surfacing materials available in Playground Surfacing Technical Information Guide published by (C.P.S.C.).

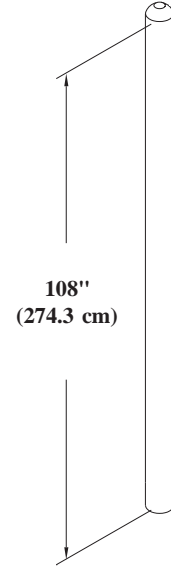


NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030

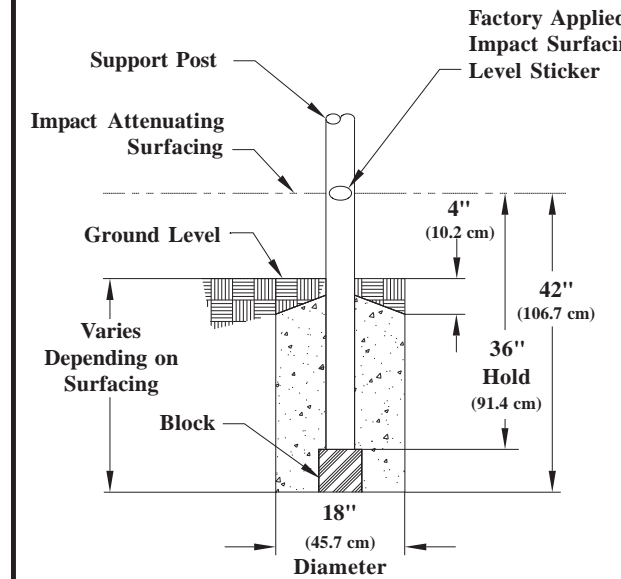
Page 1 of 2

PA436

108" (274.3 cm) POST WITH RIVETED CAP MODEL CH0940



ASSEMBLY VIEW



SUPPORT POST
FOOTING DETAIL

Footing Notes:

- A. Footing depth equals 42" less the depth of the impact attenuating surfacing material. Example: If 12" of wood mulch is used for surfacing, the footing depth would be 30".
- B. All 3-1/2" O.D. Challenger support posts shall have a factory applied sticker with line designating placement of post in relationship to depth of impact attenuating surfacing on a level and clear installation site.
- C. If play unit installed on uneven terrain, maintain support post mark at impact attenuating surface level at lowest grade. Adjust other footings accordingly. Support Posts and all attaching decks and play components must be plumb and level.
- D. Footing size may vary due to local soil and weather conditions.
- E. Base of footing must be below frost line.
- F. Comparison of impact attenuating surfacing materials available in Playground Surfacing Technical Information Guide published by (C.P.S.C.).



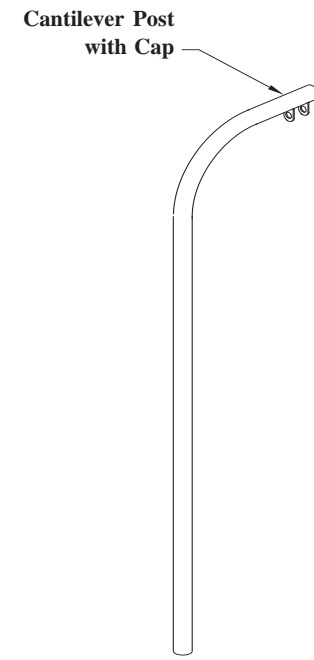
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Page 1 of 2

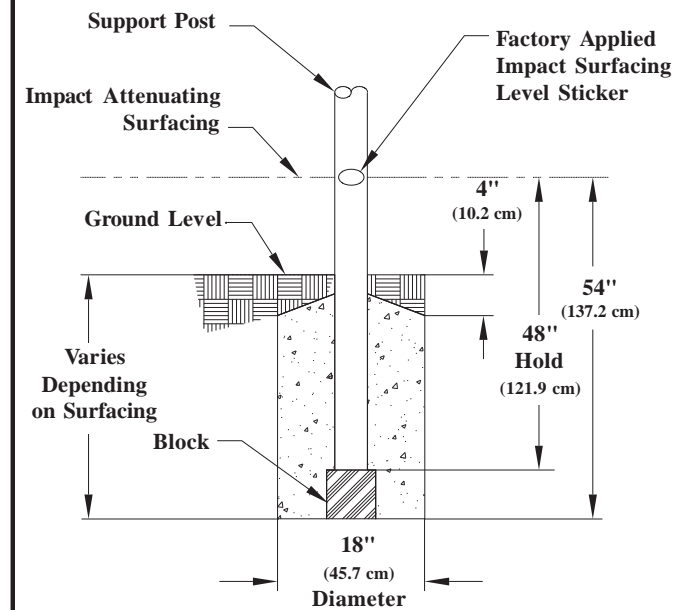
PA436

CANTILEVER POST

GROUND ZERO
MODEL CH1850



ASSEMBLY VIEW



FOOTING DETAIL

Footings Notes:

- A. Footing depth equals 54" less the depth of the impact attenuating surfacing material. Example: If 12" of wood mulch is used for surfacing, the footing depth would be 42".
- B. All 3-1/2" O.D. Challenger cantilever posts shall have a factory applied sticker with line designating placement of post in relationship to depth of impact attenuating surfacing on a level and clear installation site.
- C. If play unit installed on uneven terrain, maintain cantilever post mark at impact attenuating surface level at lowest grade. Adjust other footings accordingly. Cantilever Posts and all attaching decks and play components must be plumb and level.
- D. Footing size may vary due to local soil and weather conditions.
- E. Base of footing must be below frost line.
- F. Comparison of impact attenuating surfacing materials available in Playground Surfacing Technical Information Guide published by (C.P.S.C.).



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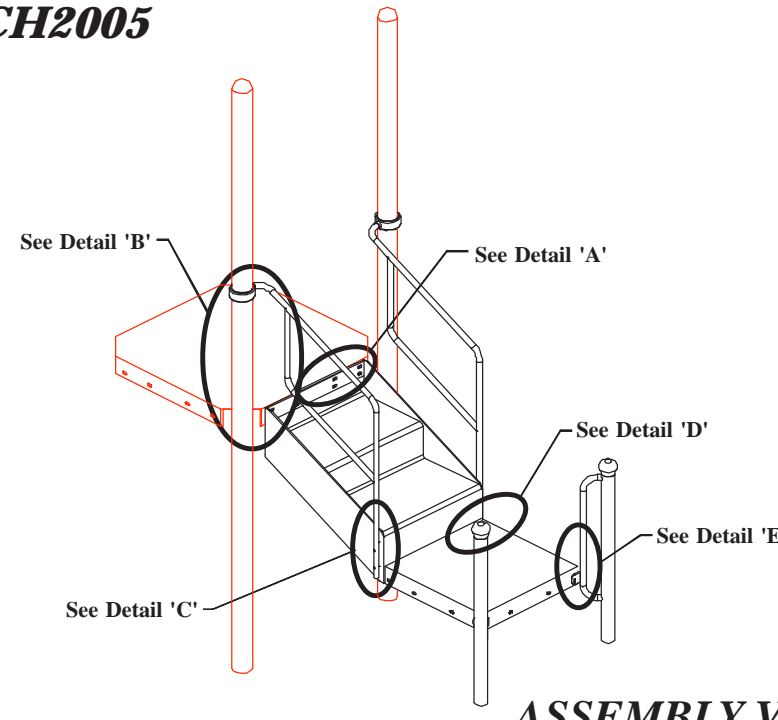
FAX: 717 966-3030

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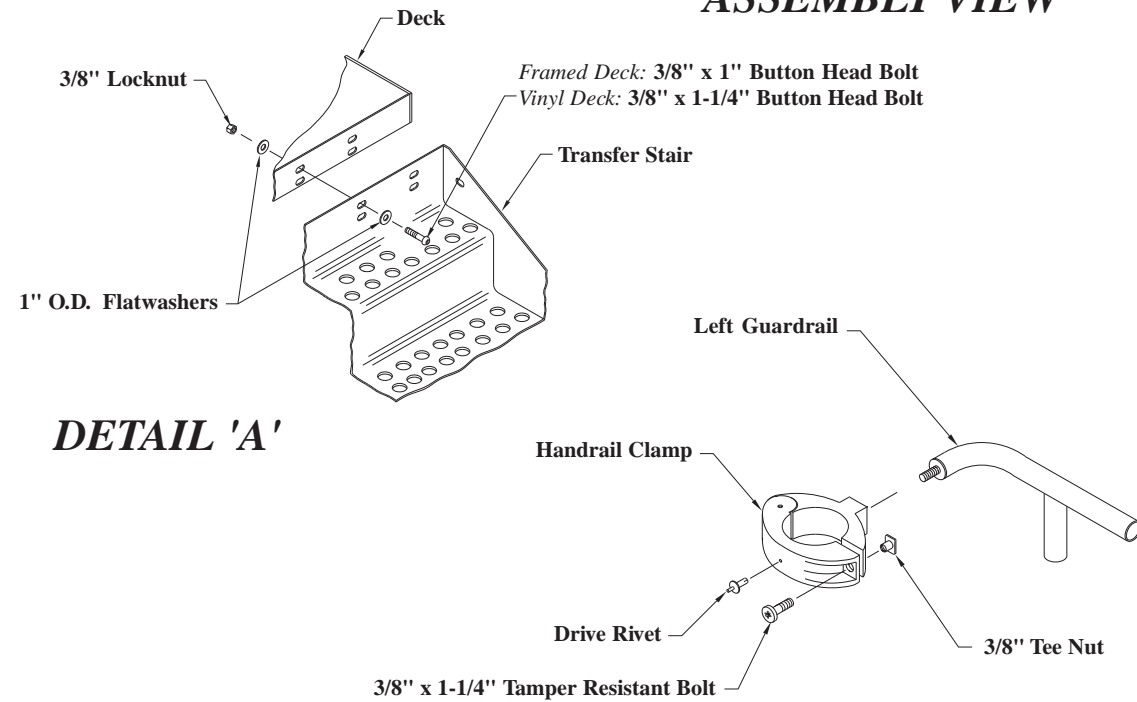
SE1963

TRANSFER STATION

MODEL CH2005



ASSEMBLY VIEW



DETAIL 'A'

DETAIL 'B'



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Page 1 of 5

SE2132

INSTALLATION INSTRUCTIONS

CHALLENGERS®
MODEL CH2530

12 in. (305 mm) DECK TO DECK KICKPLATE

Installation Preparation . . .

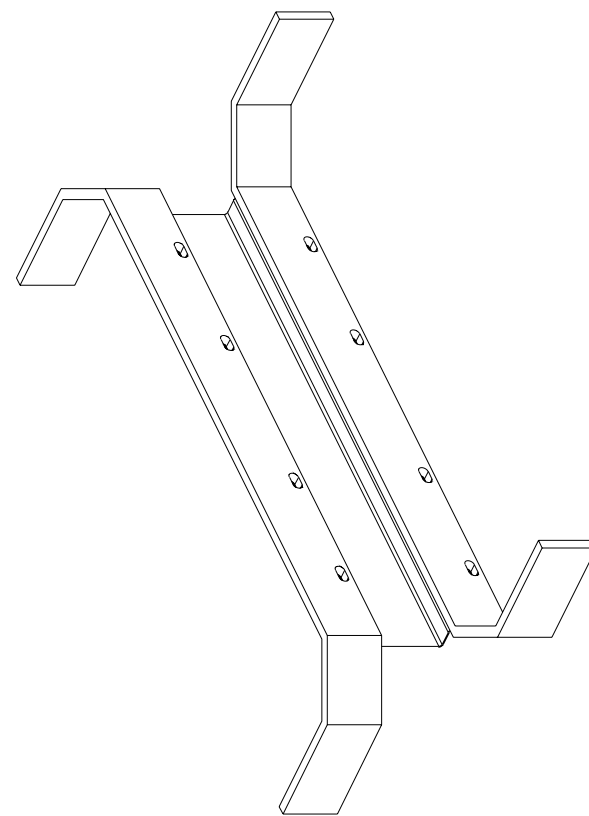
Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Weight: 8.8 Lbs. (4 Kilos)
User Group (ages): 2 - 12 years (ASTM/CSA), 2-14 (EN)

Torque Specification:

Bolts & Nuts: Snug-tighten and tighten an additional one-half turn.

Maintenance . . .

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with the appropriate standard for your location appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Assembly View

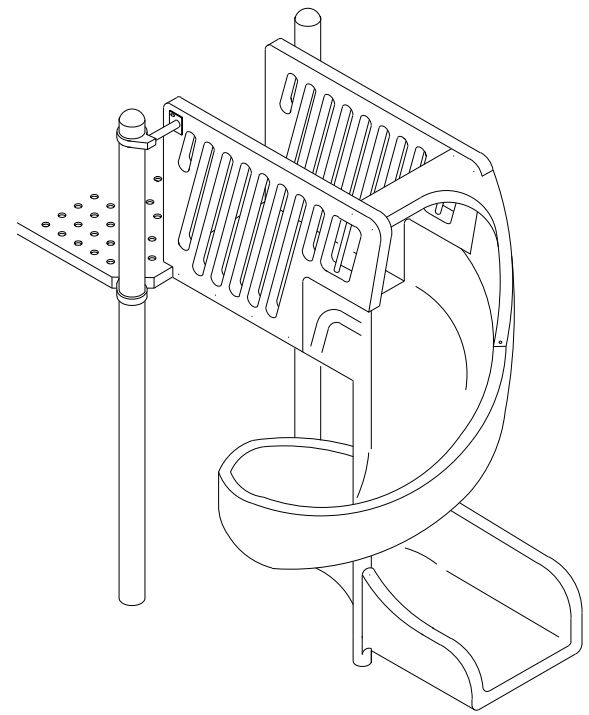


Model CH2530
PA-474

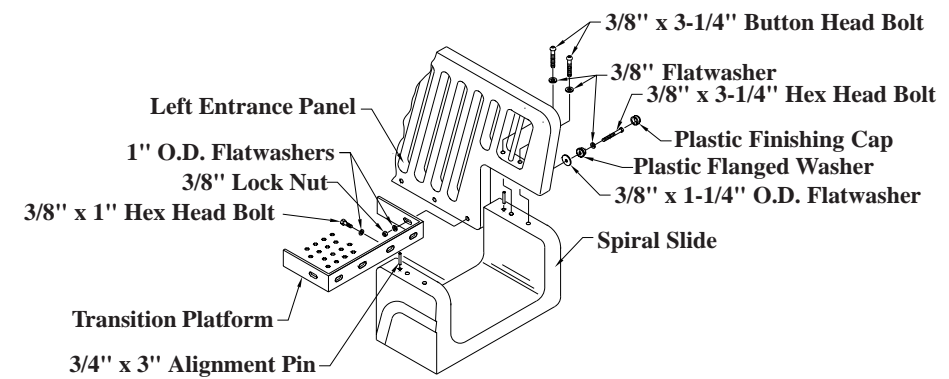
Page 1 of 3

360° SPIRAL SLIDE

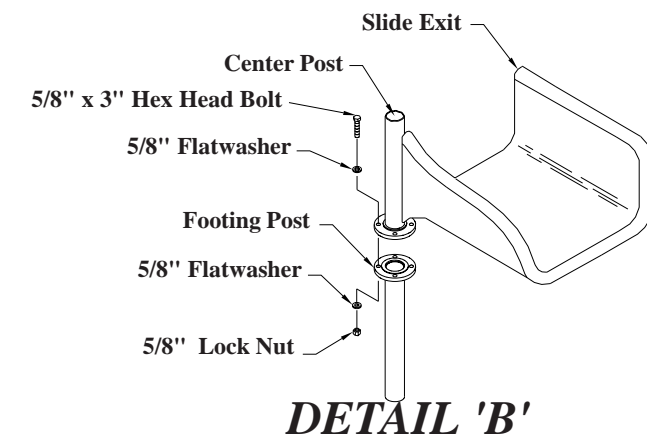
ONE PIECE
MODEL CH2780



ASSEMBLY VIEW



DETAIL 'A'



DETAIL 'B'



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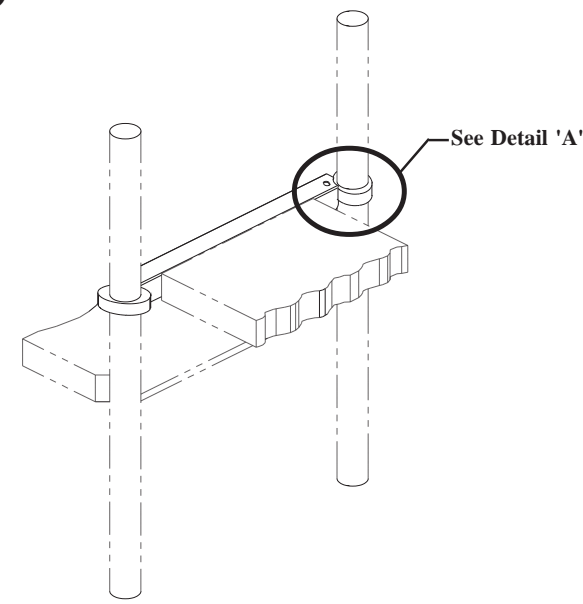
FAX: 717 966-3030

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ECN-65

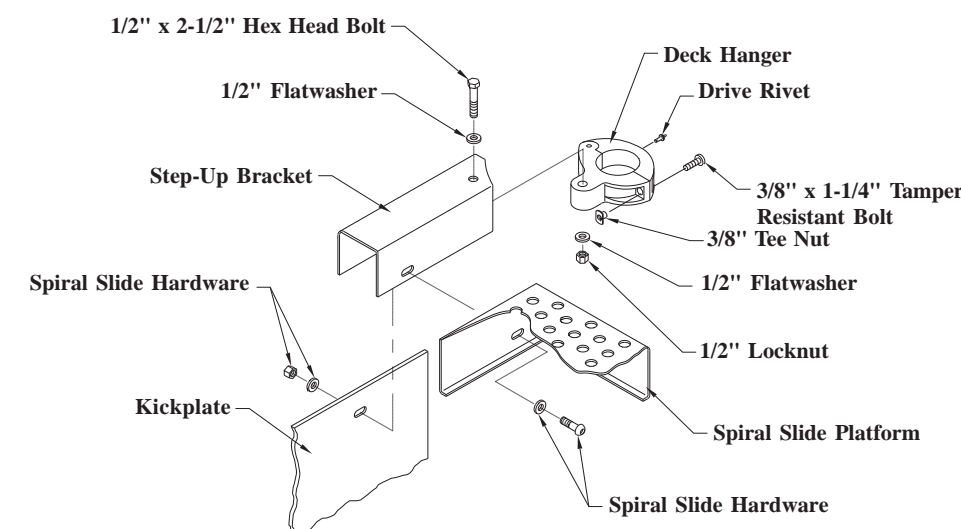
STEP-UP BRACKET

MODEL CH2805



ASSEMBLY VIEW

See Detail 'A'



DETAIL 'A'



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Page 1 of 2

PA504

STEP-UP BRACKET



INSTALLATION INSTRUCTIONS CHALLENGERS™ MODEL CH2930 LIGHTNING SLIDE 72" (1829 mm) Deck

Installation Preparation . . .

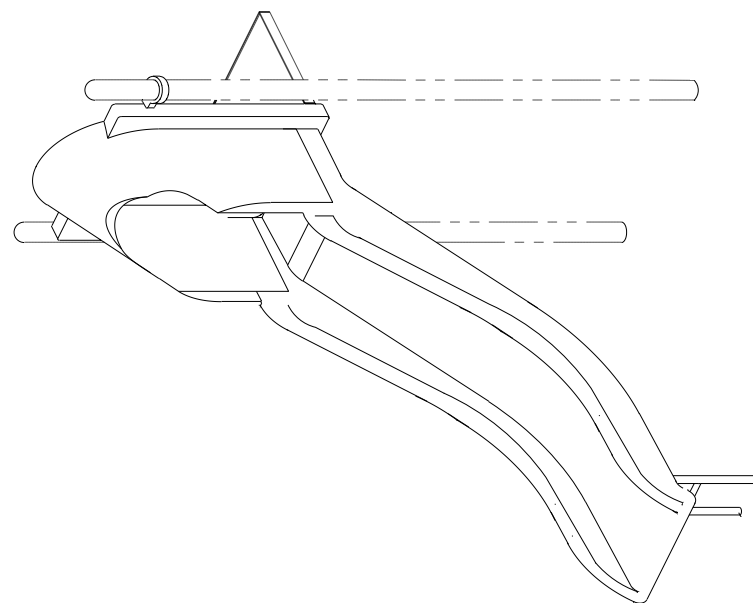
Installation Time: Approx. 2 hours
Weight: 143 Lbs. (65 Kilos)
Concrete Required: Approx. 1-1/2 cubic feet
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 2 - 12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

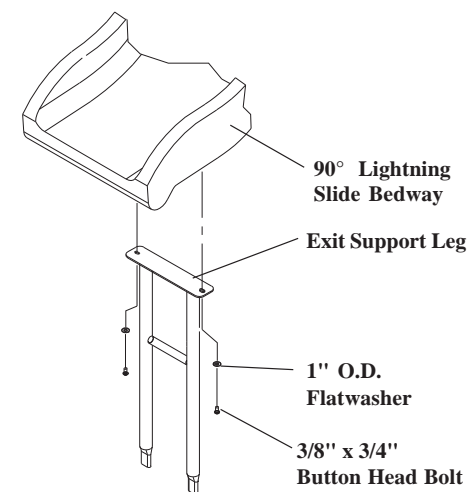
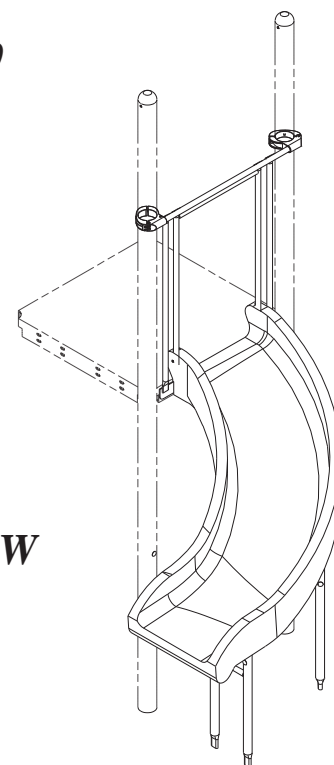


Assembly View

90° LIGHTNING SLIDE

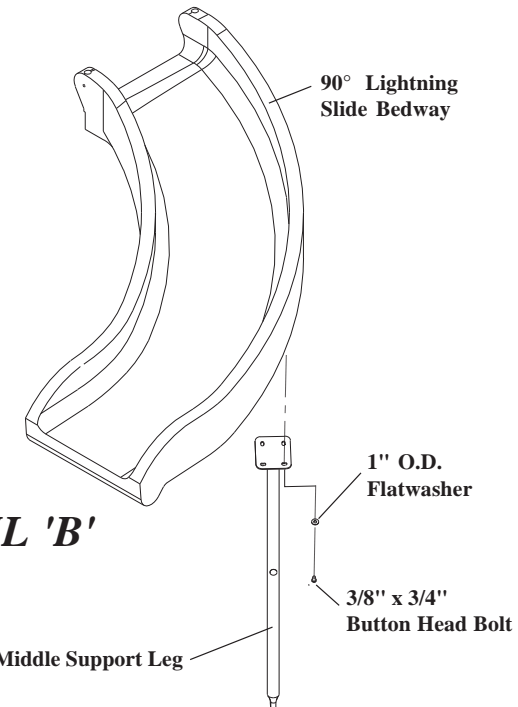
36" (76 cm) DECK
MODEL CH2970

ASSEMBLY VIEW



DETAIL 'A'

DETAIL 'B'



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Page 1 of 4

SE-2173

LIGHTNING SLIDE



INSTALLATION INSTRUCTIONS CHALLENGERS® MODEL CH3148 SLITHER SLIDE (Balcony Attachment)

Installation Preparation . . .

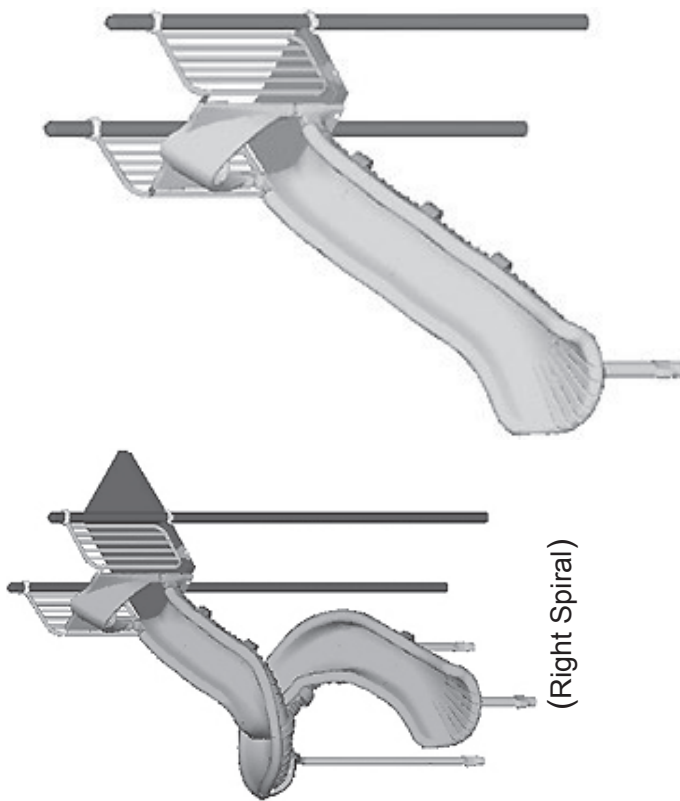
Recommended Crew: Two (2) adults
Installation Time: See table on Page 3
Weight: 162.1 Lbs. (73.7 Kilos)
Concrete Required: 0.03 cubic yards per support post
Use Zone: See table on Page 3 for use zone at the slide exit
72 in. (1829 mm) all other sides
User Group: Ages 2 - 12 years for slides 48"/60" height
Ages 5 - 12 years for slides 48"/108" height

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

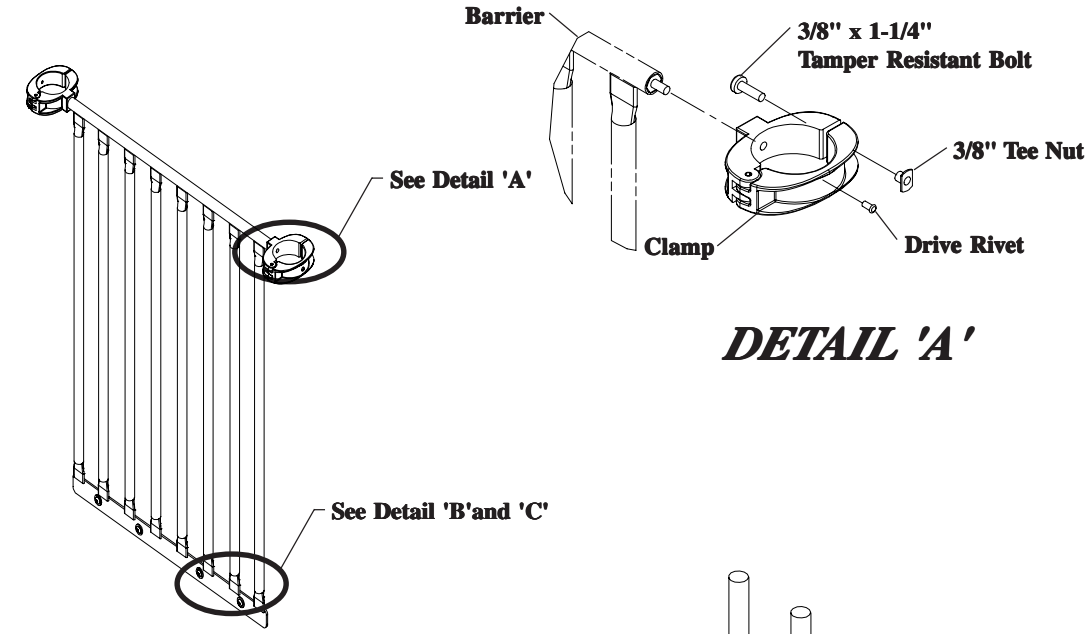


Assembly Views

View shown above is for visual reference only and may not be your configuration

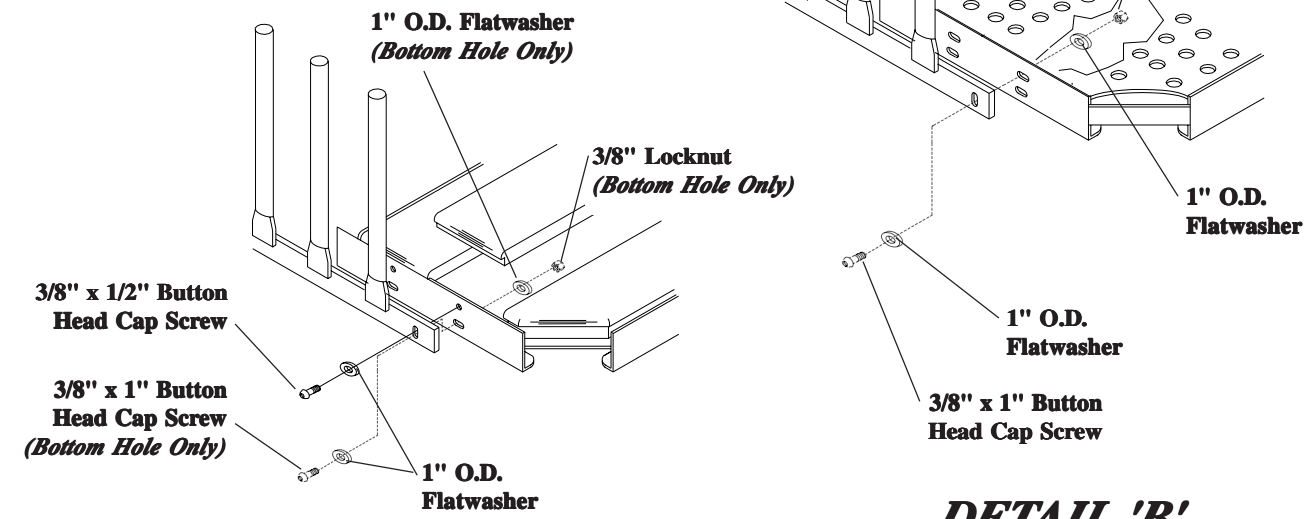
CENTERLINE PIPE WALL BARRIER MODEL CH4090

PIPE WALL BARRIER



DETAIL 'A'

ASSEMBLY



DETAIL 'B'
Vinyl Deck Application

DETAIL 'C'
Framed Deck Application



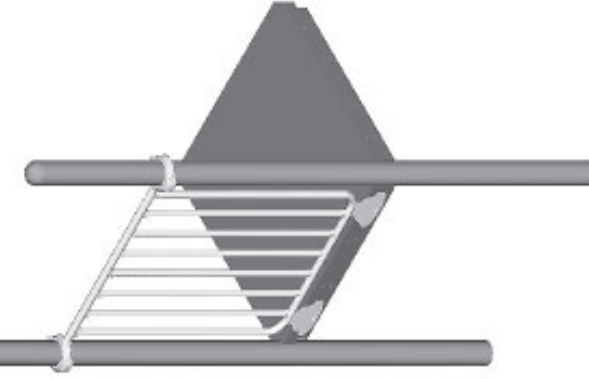
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Page 1 of 2

SE-2166



INSTALLATION INSTRUCTIONS CHALLENGERS® MODEL CH4095 CENTERLINE PIPE WALL BARRIER



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Weight: 28.7 Lbs. (12.9 Kilos)
Use Zone: 72 in. (1829 mm) all sides
User Group: Ages 2 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

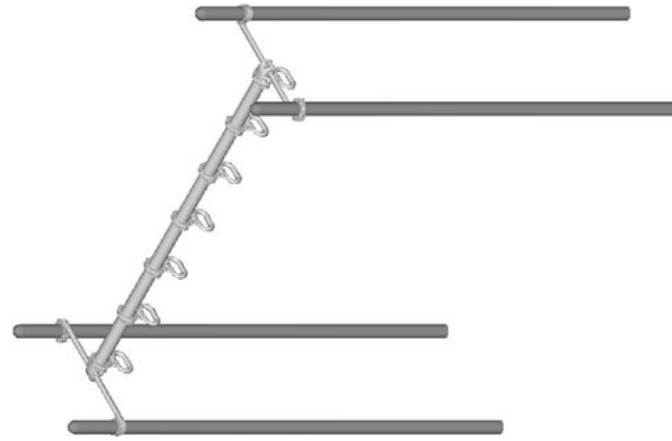
- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Page 1 of 5

Model CH4095
PA-835



INSTALLATION INSTRUCTIONS CHALLENGERS® MODEL CH5670 10 FT. (3048 mm) HAND TREK



Assembly View

Installation Preparation . . .

Installation Time: Approx. 1 hour
Weight: 52 Lbs. (24 Kilos)
Concrete Required: Approx. 2 cubic feet
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

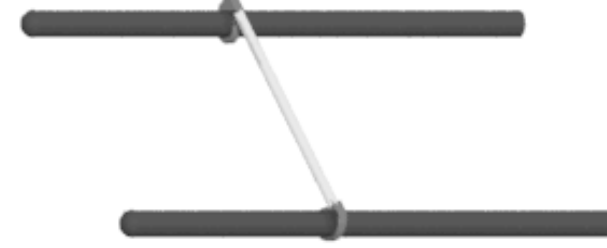
- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Page 1 of 7

Model CH5670
SE-2176



INSTALLATION INSTRUCTIONS CHALLENGERS® MODEL CH5730 CHINNING / TURNING BAR



Assembly View

Installation Preparation . . .

Recommended Crew: One (1) adult
Installation Time: 0.5 hours
Weight: 5 Lbs. (2 Kilos)
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 6 and above

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

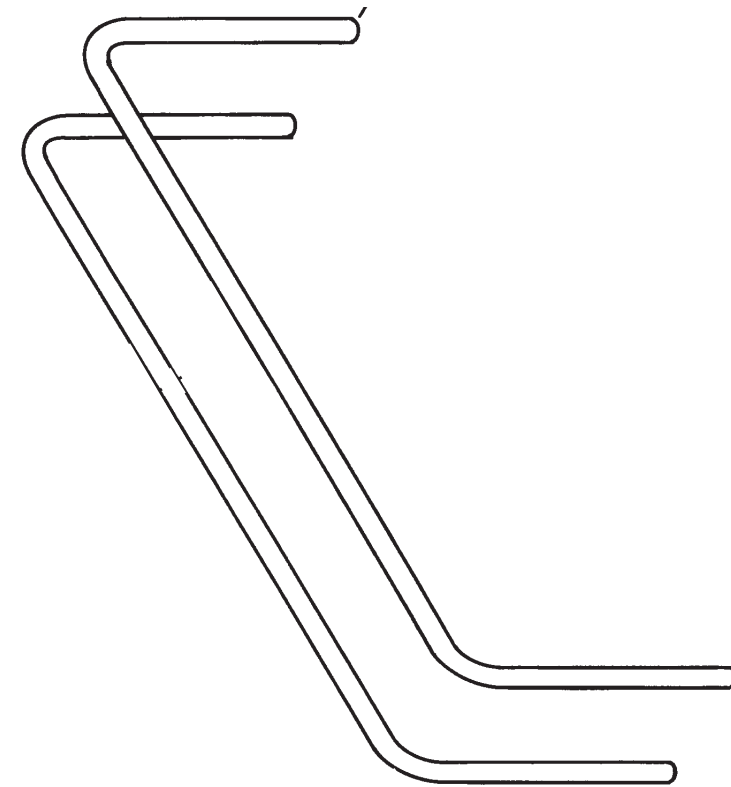
Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Page 1 of 3

Model CH5730
ECN-120





Assembly View

Installation Preparation . . .
Recommended Crew: One (1) adult
Installation Time: 2 hours
Weight: 103 Lbs. (46.8 Kilos)
Concrete Required: .12 cubic yard
Use Zone: 72 in. (1829 mm) all sides
User Group: Ages 5 and up

Maintenance . . .
• Playworld Systems[®] strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems[®] strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

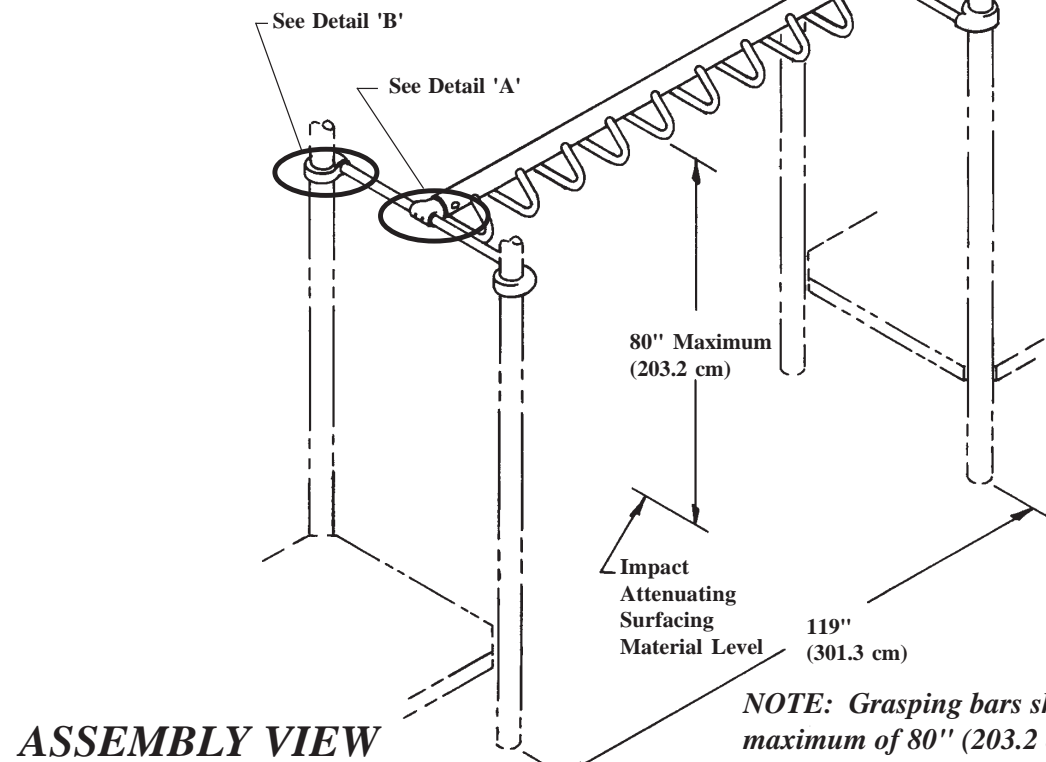


Model CH5750
SE-1770

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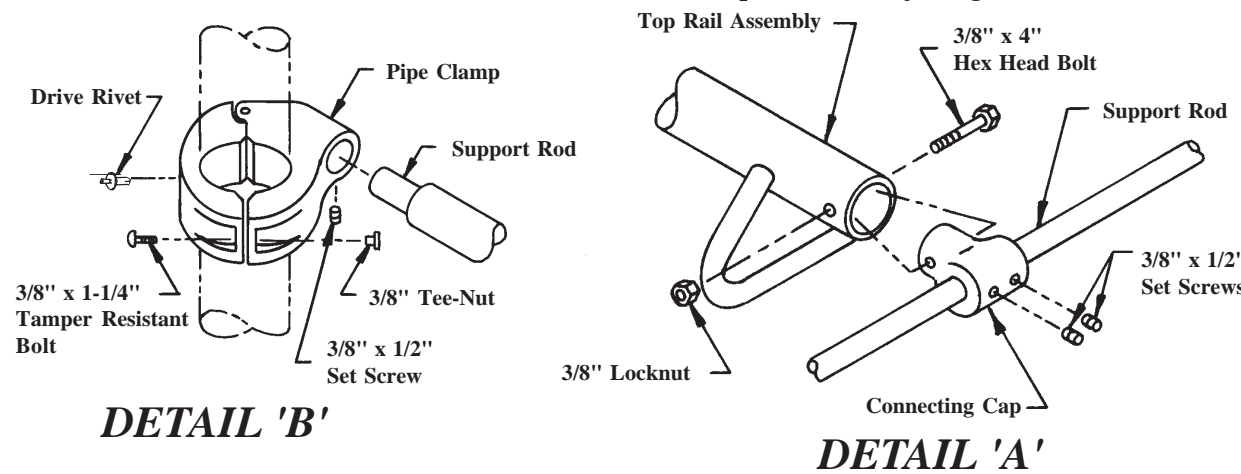
CHALLENGER

HORIZONTAL LOOP LADDER
MODEL CH5790



ASSEMBLY VIEW

NOTE: Grasping bars should be a maximum of 80" (203.2 cm) above the protective surfacing.



DETAIL 'B'

DETAIL 'A'



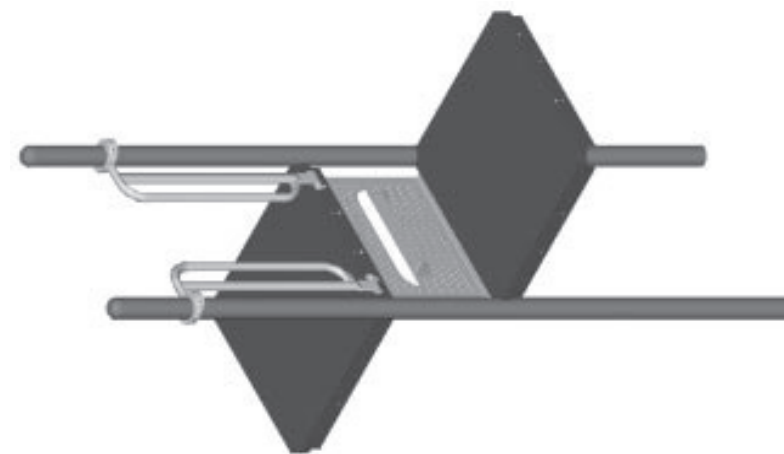
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Page 1 of 2 SE1770

LOOP LADDER



PLAYWORLD SYSTEMS
Putting the Fun Back Into Play[™]



Assembly View

INSTALLATION INSTRUCTIONS

CHALLENGERS[™]
MODEL CH6190
DECK TO DECK CLIMBER
24" (610 mm) Deck

Installation Preparation . . .
Installation Time: Approx. 3/4 hour
Weight: 42 Lbs. (19 Kilos)
User Group: Ages 2 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

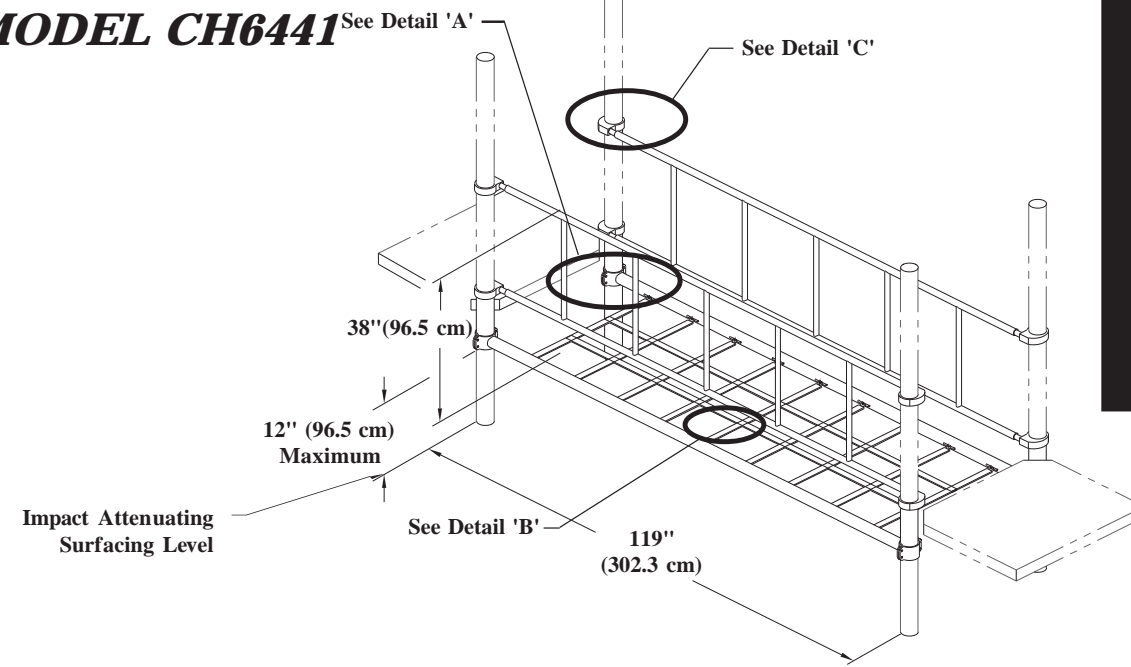


Model CH6190
PA-606

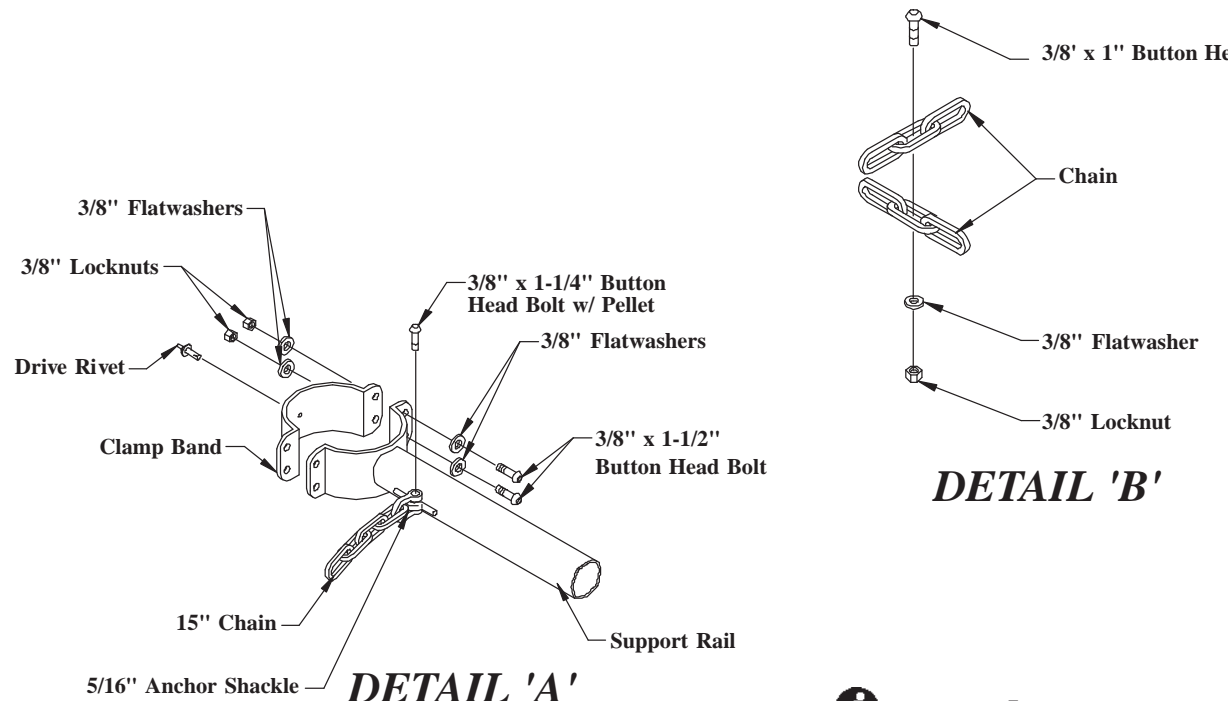
Page 1 of 7

CHALLENGERS

CHAIN BRIDGE
VINYL CHAIN
MODEL CH6441



ASSEMBLY VIEW



DETAIL 'A'

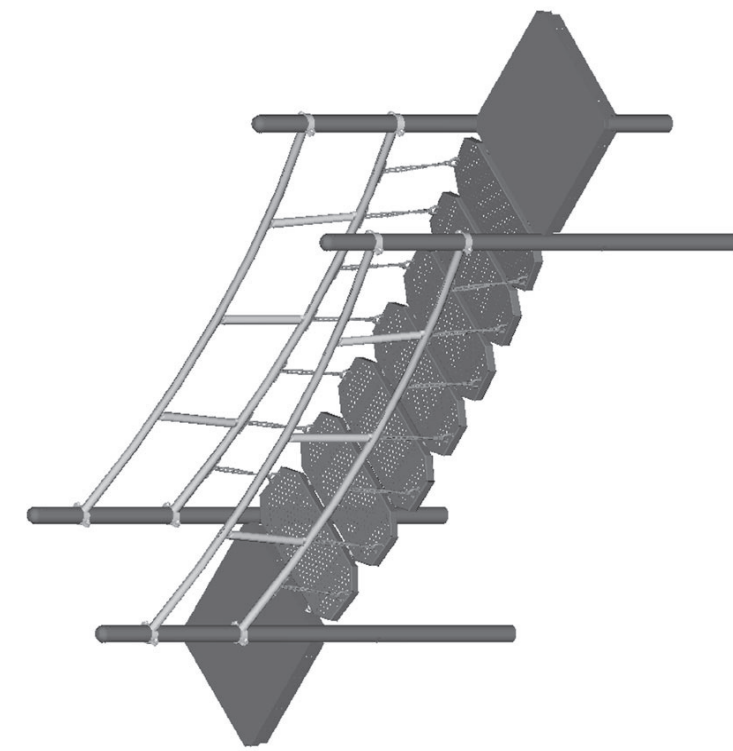
DETAIL 'B'



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CHAIN BRIDGE



Assembly View

Installation Preparation . . .

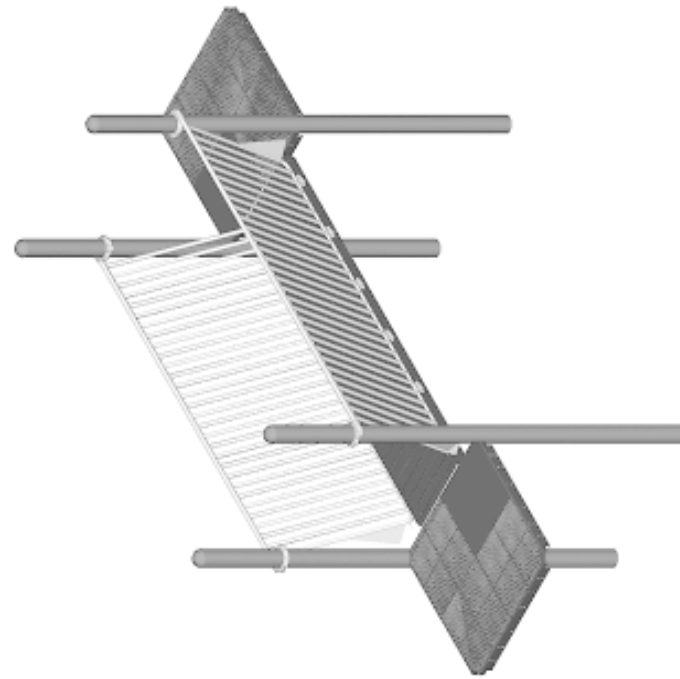
Installation Time: Approx. 2 hours
 Weight: 269 Lbs. (121.1 Kilos)
 Use Zone: 6 ft. (1829 mm) all sides

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Assembly View

Installation Preparation . . .

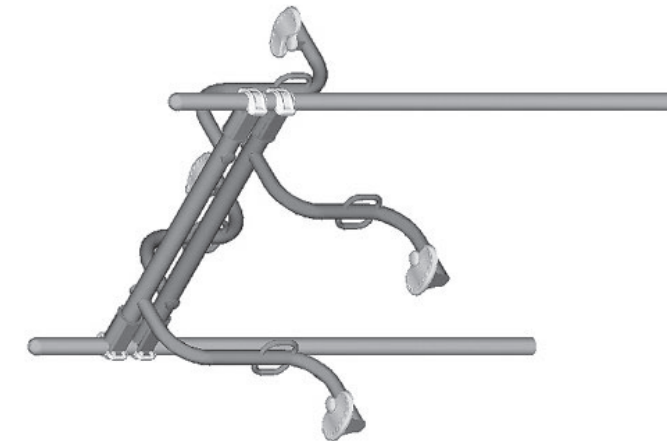
Recommended Crew: Four (4) adults
 Installation Time: 5 man-hours
 Weight: 471.2 Lbs. (212 Kilos)
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 2 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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Assembly View

Installation Preparation . . .

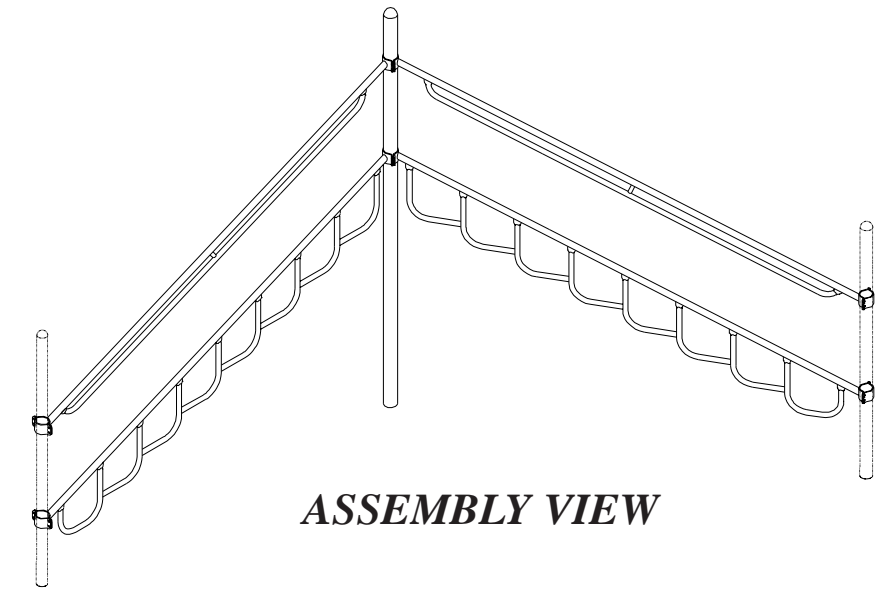
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 263.1 Lbs. (119.6 Kilos)
 Use Zone: 72 in. (1829 mm) all sides
 User Group: Ages 2 - 12 years

Torque Specification:

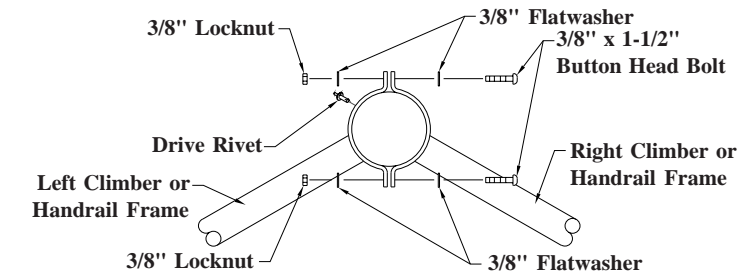
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

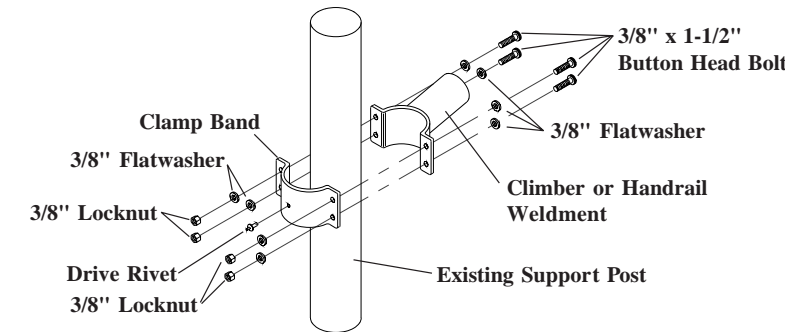
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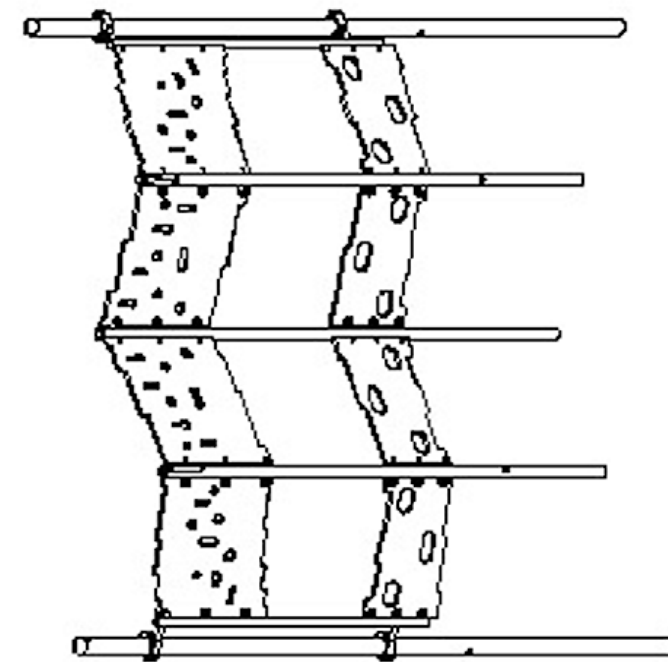
ASSEMBLY VIEW



DETAIL 'B'



DETAIL 'A'



Assembly View



Installation Preparation . . .

Installation Time: Approx. 1 hour
 Weight: 187 Lbs. (84.1 Kilos)
 Concrete Required: Approx. 9 cubic feet
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12

Torque Specification:

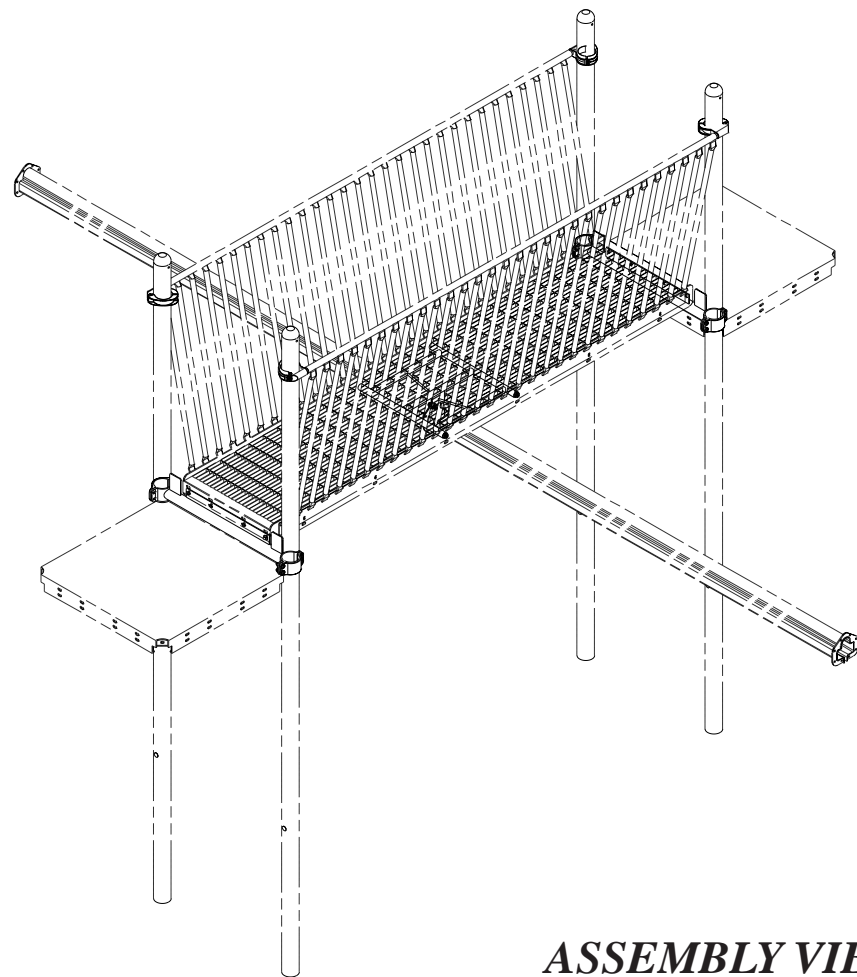
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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CATWALK OVERPASS KIT
MODEL CH7030



ASSEMBLY VIEW



Installation Preparation . . .

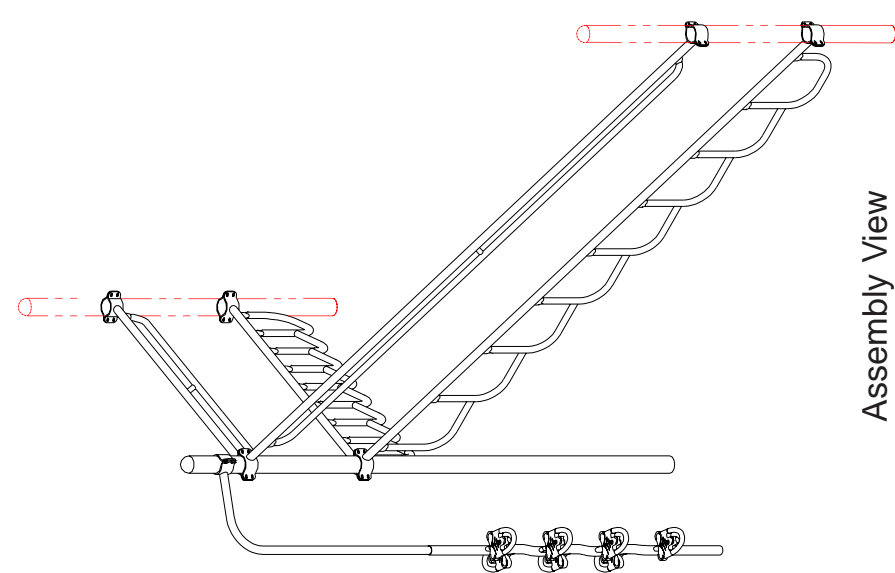
Installation Time: Approx. 4 hours
 Weight: 236 Lbs. (106.2 Kilos)
 Concrete Required: Approx. 4.2 cubic feet
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages : 5 - 12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

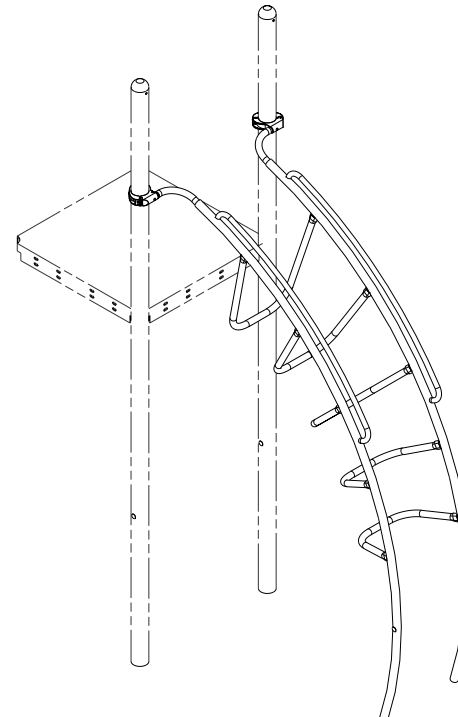
Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
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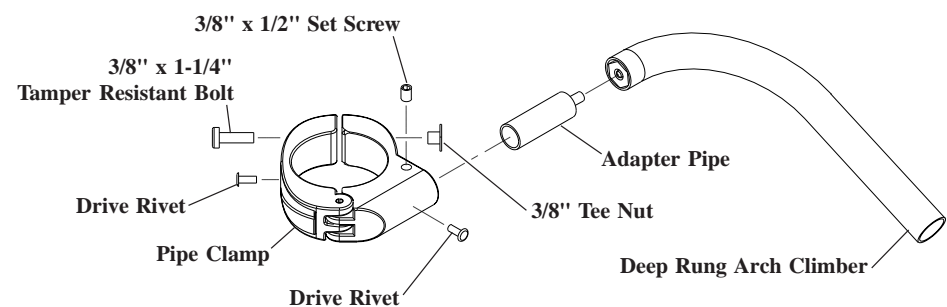


Assembly View

DEEP RUNG ARCH CLIMBER
48" (121.9 cm) DECK
MODEL CH7410

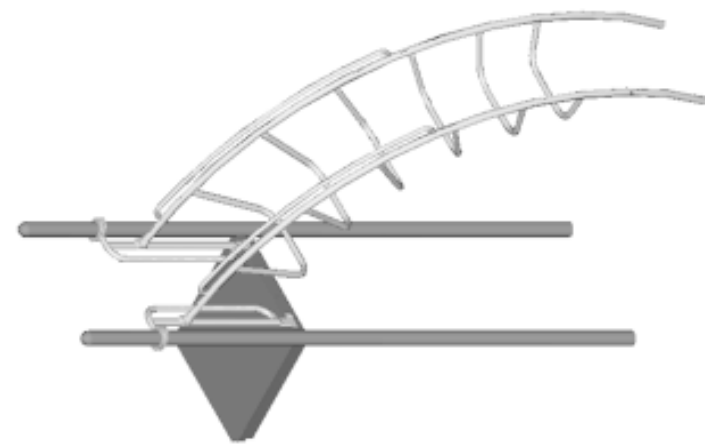


ASSEMBLY VIEW



DETAIL 'A'





Assembly View

Installation Preparation . . .

Installation Time: Approx. 1 hour
 Weight: 100 Lbs. (45 Kilos)
 Concrete Required: Approx. 2 cubic feet
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



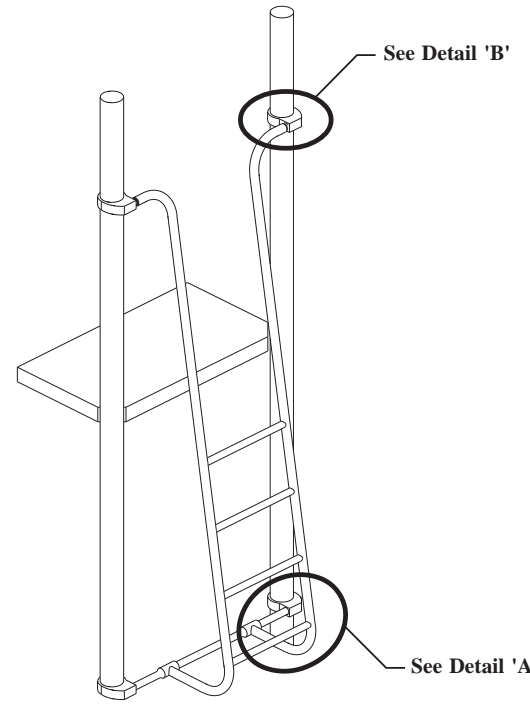
Model CH7420
 ECN-150

Page 1 of 7

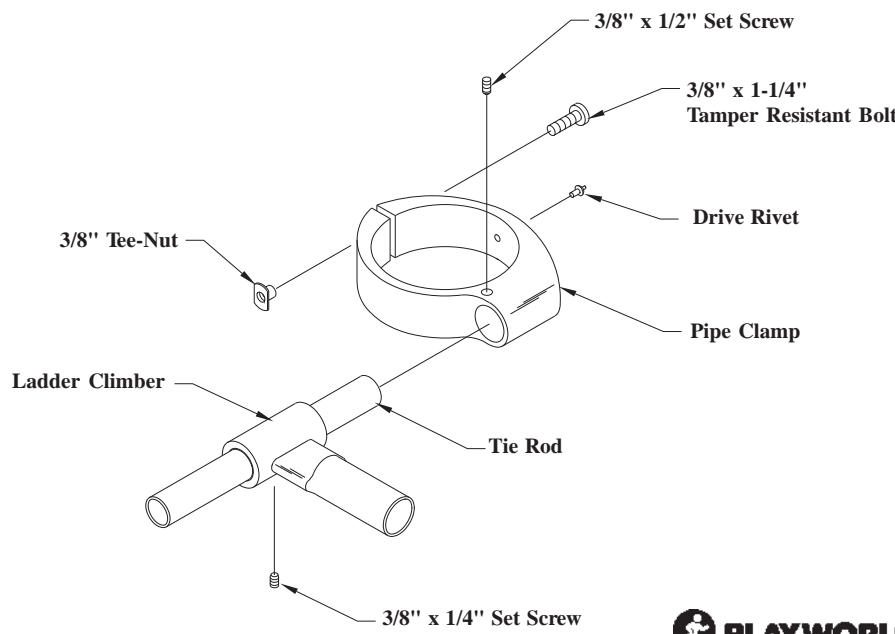
CHALLENGER

LADDER CLIMBER

48" (121.9 cm) DECK
 MODEL CH7500



ASSEMBLY VIEW



DETAIL 'A'



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Page 1 of 3

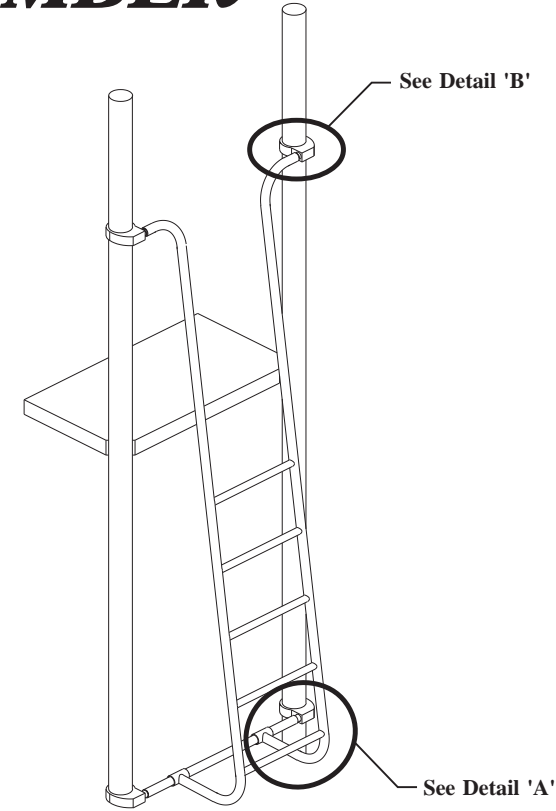
SE1972

LADDER CLIMBER

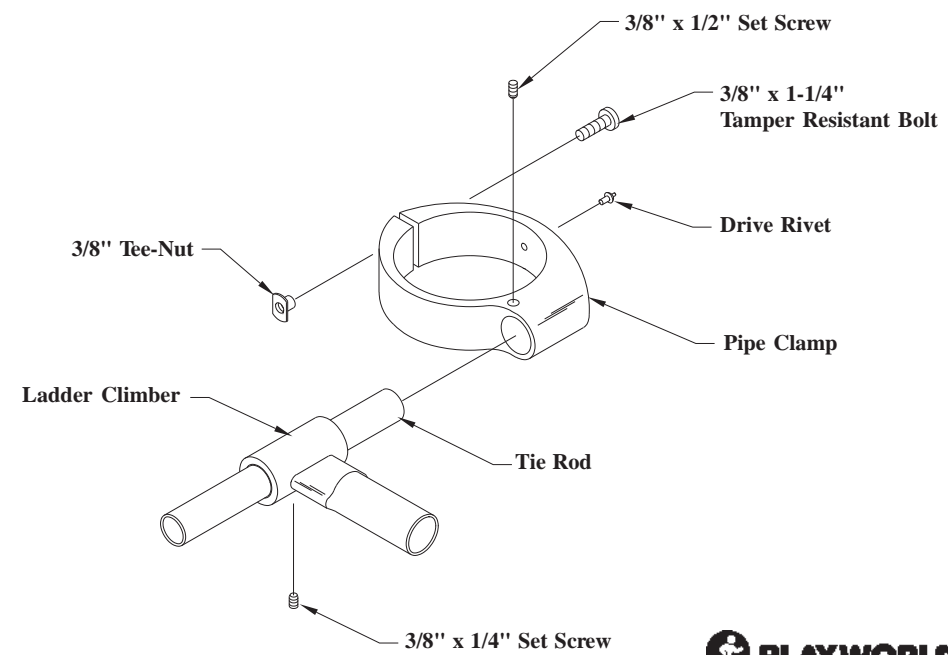
CHALLENGER

LADDER CLIMBER

60" (152.4 cm) DECK
 MODEL CH7510



ASSEMBLY VIEW



DETAIL 'A'



NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030

Page 1 of 3

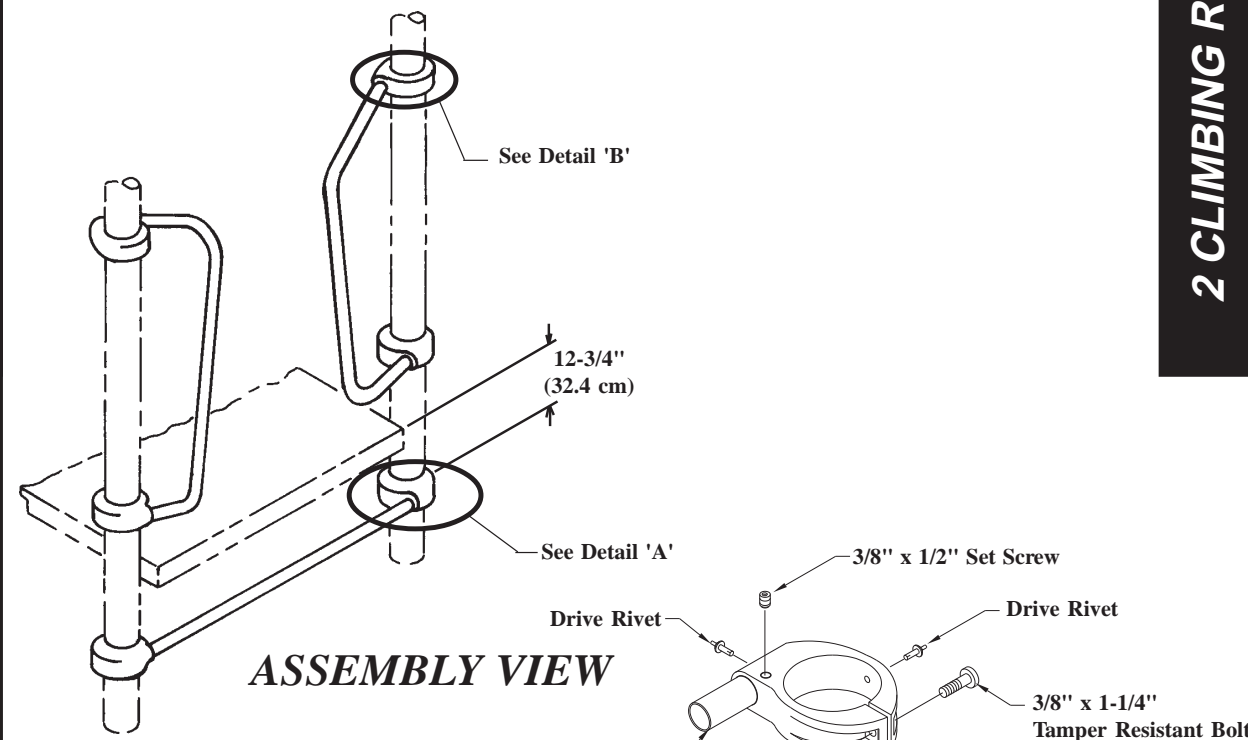
SE1972

LADDER CLIMBER

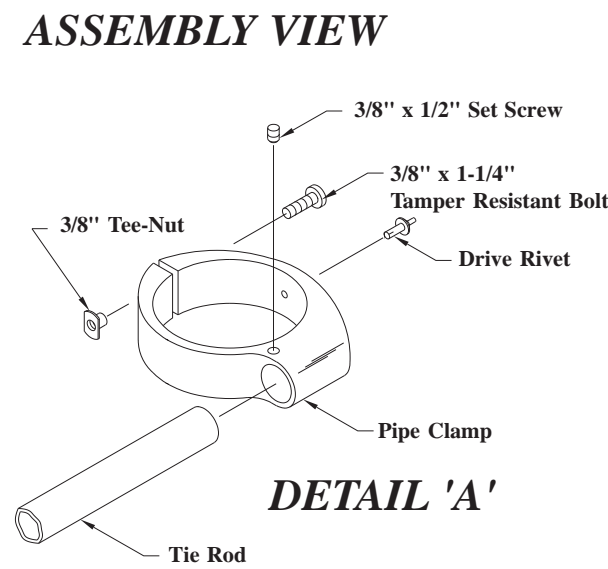
CHALLENGER

1 CLIMBING RUNGS

24" (61 cm) DECK
 MODEL CH7550



ASSEMBLY VIEW



DETAIL 'A'



NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030

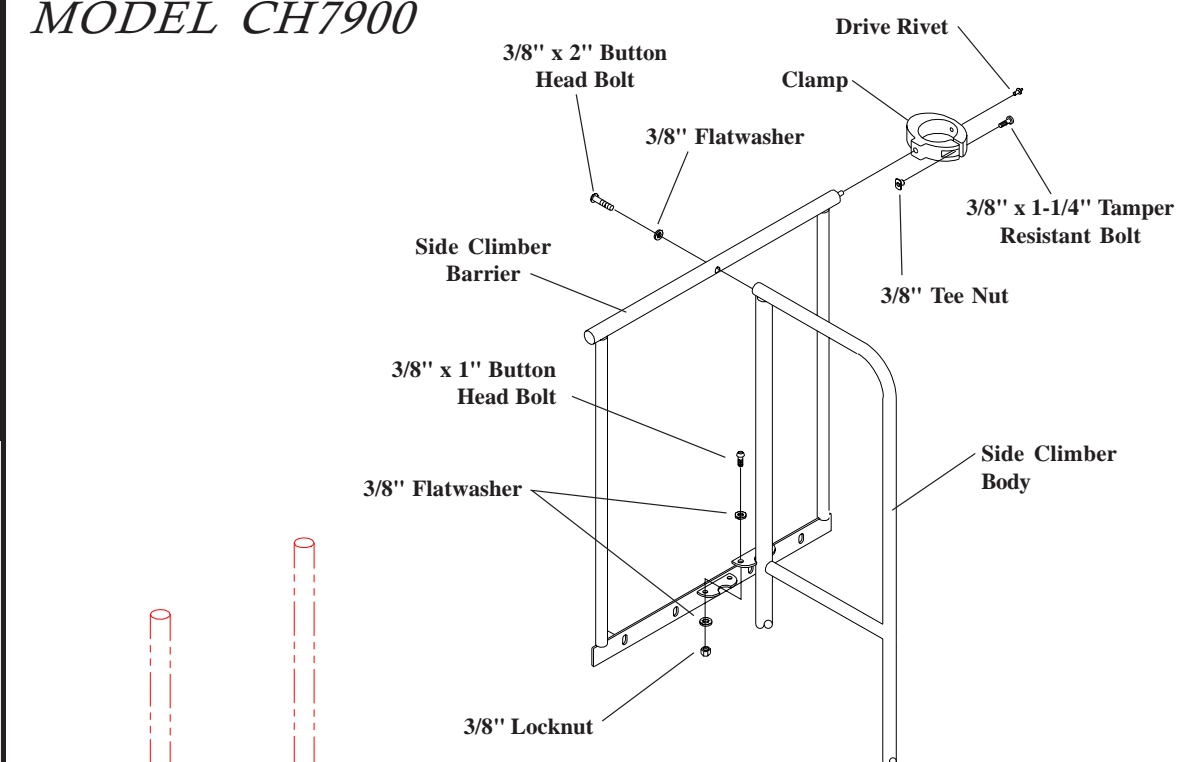
Page 1 of 2

SE1770

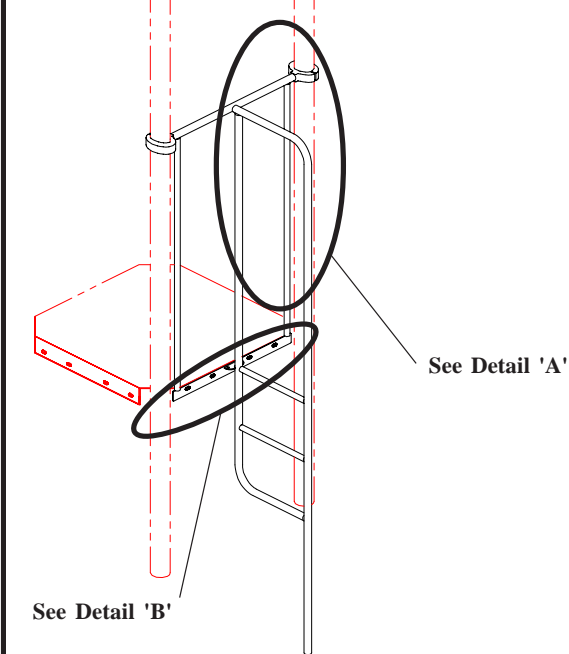
2 CLIMBING RUNGS

SIDE CLIMBER

36" (91.4 cm) DECK
MODEL CH7900



DETAIL 'A'



ASSEMBLY VIEW



NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030

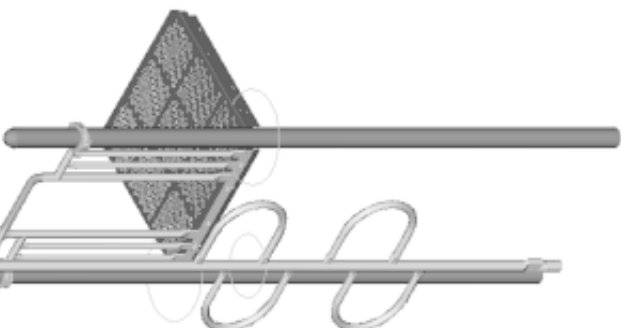
Page 1 of 4

SE-2166

SIDE CLIMBER



INSTALLATION INSTRUCTIONS CHALLENGERS® MODEL CH8190 TREE CLIMBER 48 in. (1219 mm) Deck



Installation Preparation . . .

Installation Time: Approx. 1 hour
Weight: 71 Lbs. (32 Kilos)
Concrete Required: Approx. 3/4 cubic feet
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

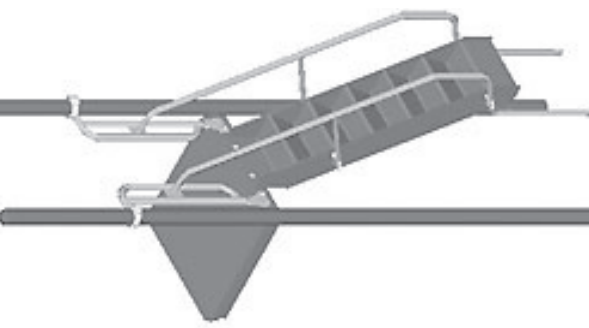
Page 1 of 5

Model CH8190
ECN-278



When trust matters™

INSTALLATION INSTRUCTIONS CHALLENGERS® MODELS CH9160 & CH9166 60 in. (1524 mm) & 71 in. (1829 mm) PERFORATED LADDER



View shown above is for visual reference only and may not be your configuration

Deck Height	60 in. (1524 mm)	72 in. (1829 mm)
Weight	128.4 Lbs. 58.4 Kilos	150.6 Lbs. 68.5 Kilos

Installation Preparation . . .

Recommended Crew: Two (2) adults
Installation Time: 2 man-hours
Weight: See table at lower left
Concrete Required: 0.06 cubic yards
Use Zone: 72 in. (1829 mm) all sides
User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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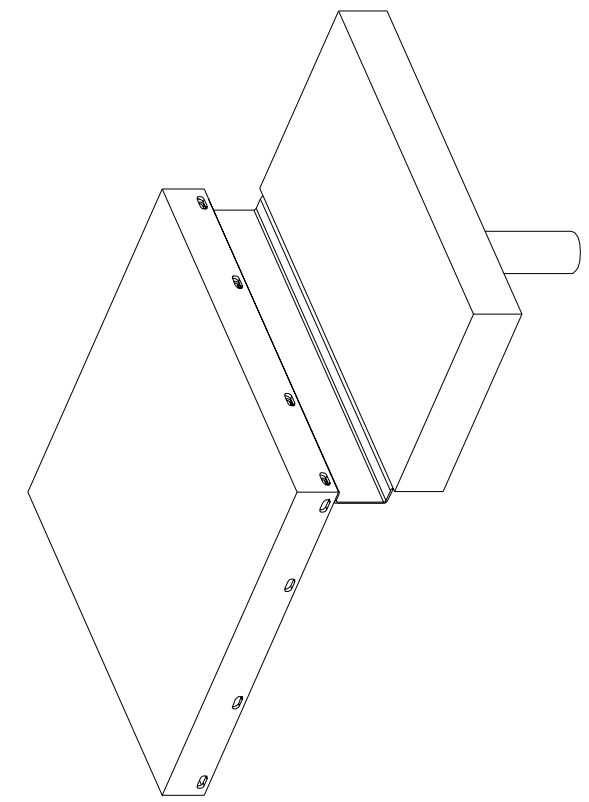
Page 1 of 9

Model CH9160 & CH9166
ECN1250



When the fun back into playgrounds®

INSTALLATION INSTRUCTIONS PLAYWORLD SYSTEMS® MODEL UN2255 APPROACH STEP For Transfer Station



Installation Preparation . . .

Installation Time: Approx. 1/2 hour
Weight: 40 Lbs. (18 Kilos)
Use Zone: 6 ft. (1829 mm) all sides
User Group: Ages 2 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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Page 1 of 5

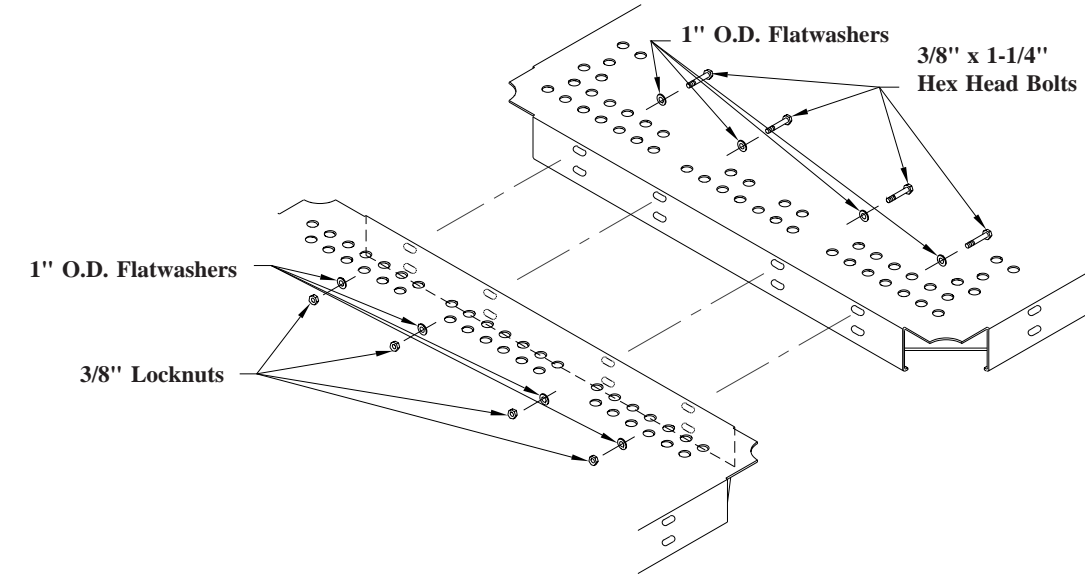
Model UN2255
PA-449



CONNECTING KIT

VINYL DECK TO VINYL DECK

MODEL UN2290



ASSEMBLY VIEW



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Page 1 of 2

SE1977

CONNECTING KIT



INSTALLATION INSTRUCTIONS

UNIVERSAL

MODEL UN6500

DURA BALANCE BEAM

Installation Preparation . . .

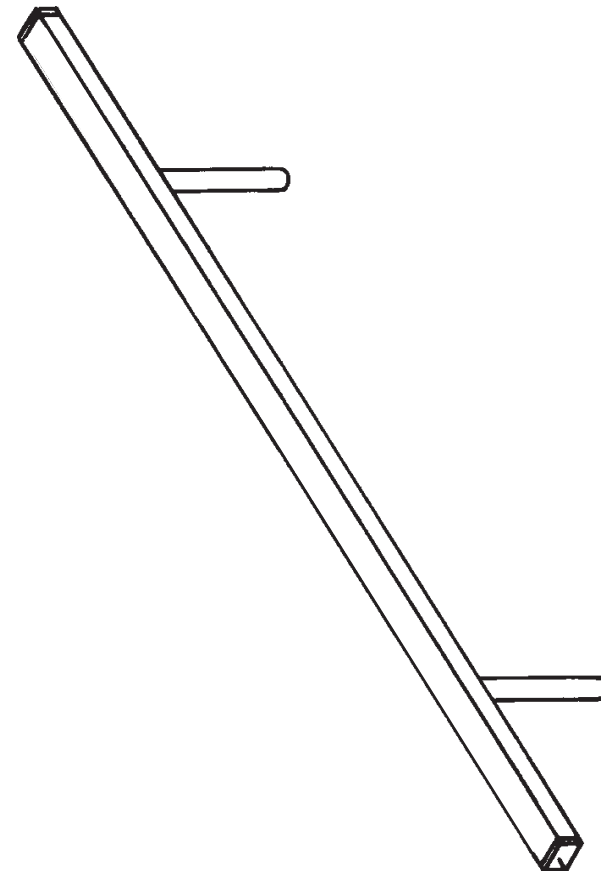
Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 58.5 Lbs. (26.3 Kilos)
 Concrete Required: 0.11 cubic yard
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 2 - 12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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Assembly View

Page 1 of 4

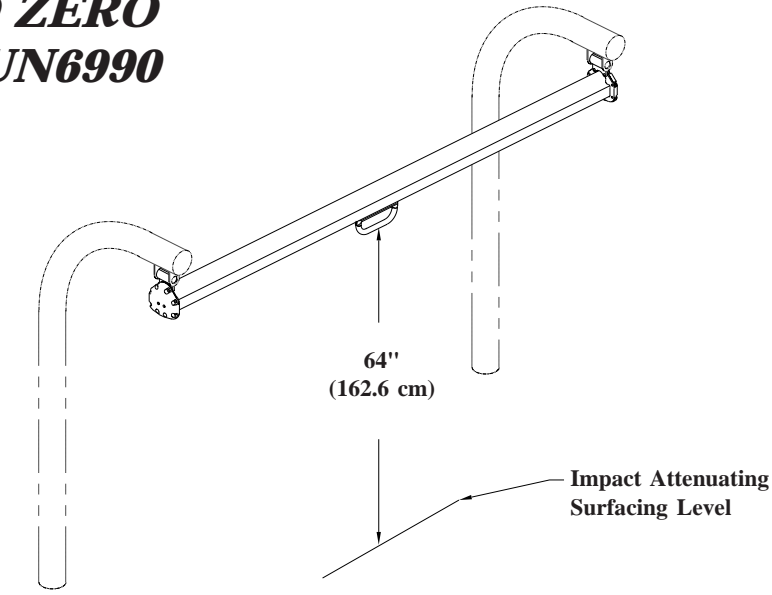
Model UN6500
ECN-777



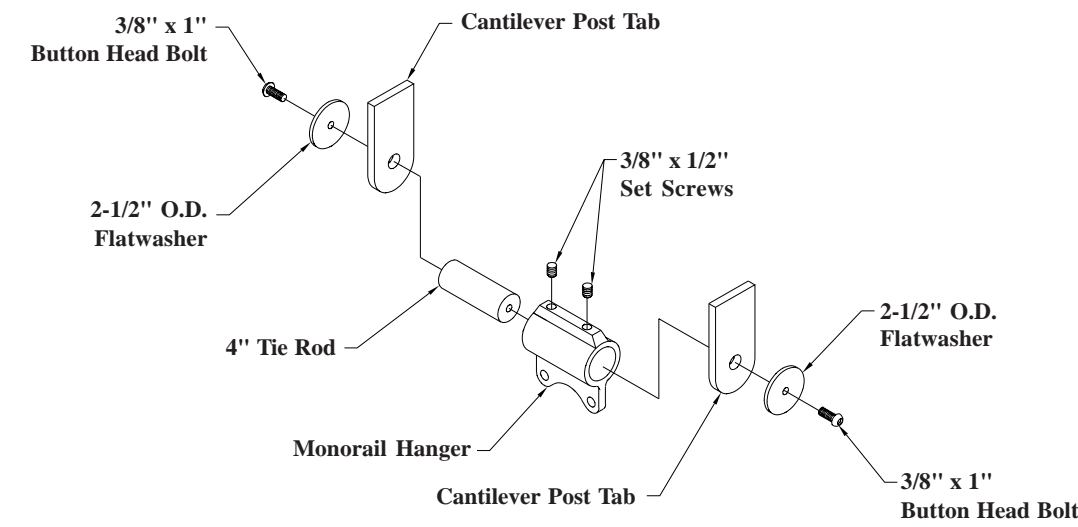
MONORAIL

GROUND ZERO

MODEL UN6990



ASSEMBLY VIEW



DETAIL 'A'



NEW BERLIN, PA 17855 800 233-8404 FAX: 717 966-3030

Page 1 of 3

SE-2212



INSTALLATION INSTRUCTIONS

UNIVERSAL

MODEL UN7000

MONORAIL EXTENSION

Installation Preparation . . .

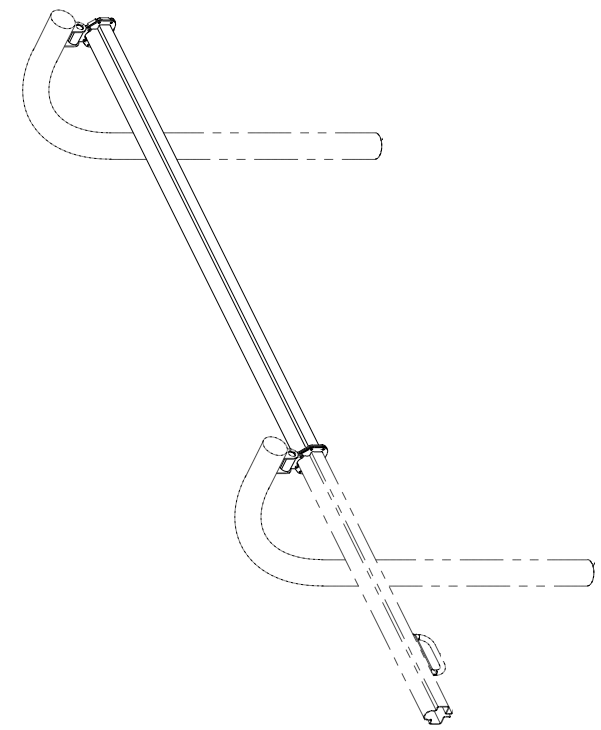
Recommended Crew: One (1) adult
 Installation Time: 1 hour
 Weight: 42 Lbs. (19.1 Kilos)
 Use Zone: 72 in. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
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Assembly View



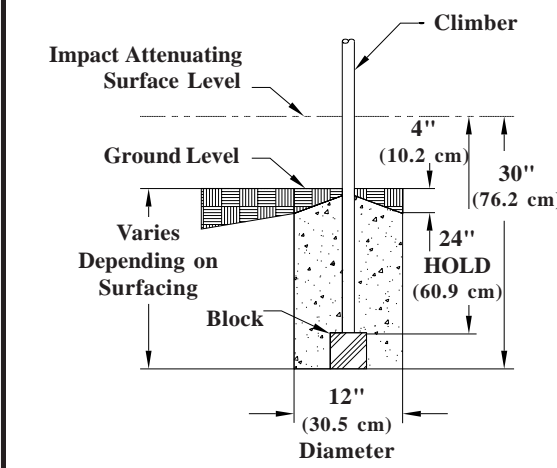
Page 3 of 7

Model UN7000
SE-2080

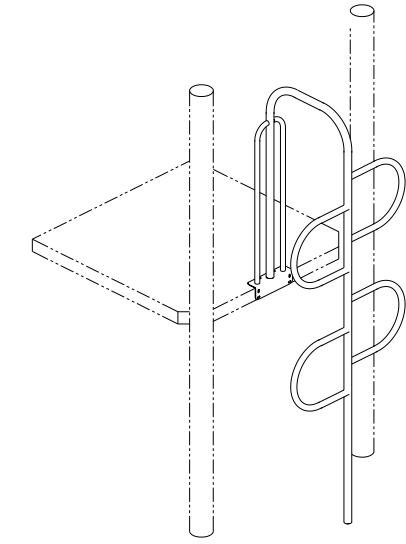


TREE CLIMBER

36" (91.4 cm) DECK
MODEL UN7650

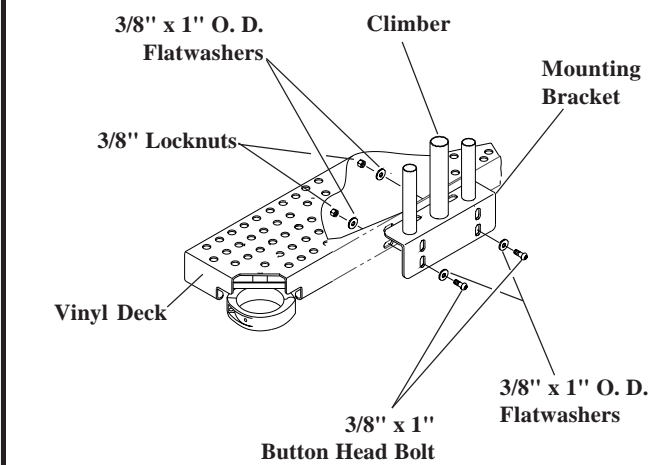


FOOTING DETAIL



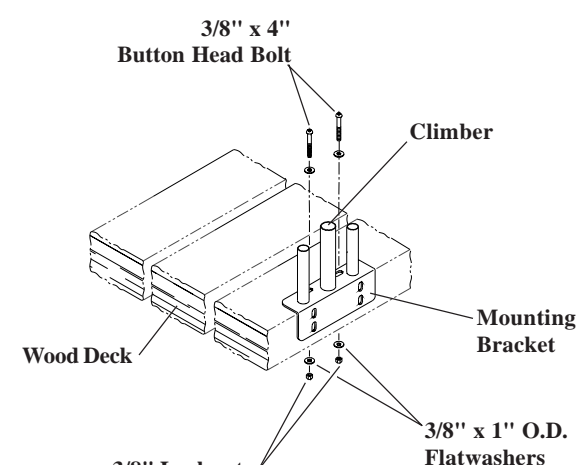
ASSEMBLY VIEW

TREE CLIMBER



DETAIL 'A'

Vinyl Deck Application Shown



DETAIL 'B'

Modular Wood Deck Application Only



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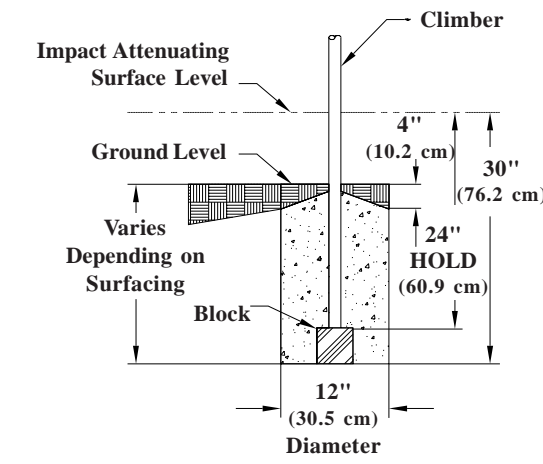
Model UN7650

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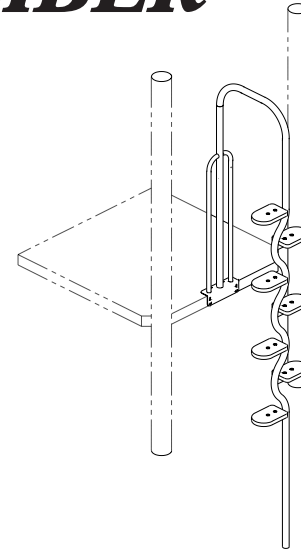
SE-2204

BEANSTALK CLIMBER

36" (91.4 cm) DECK
MODEL UN7850

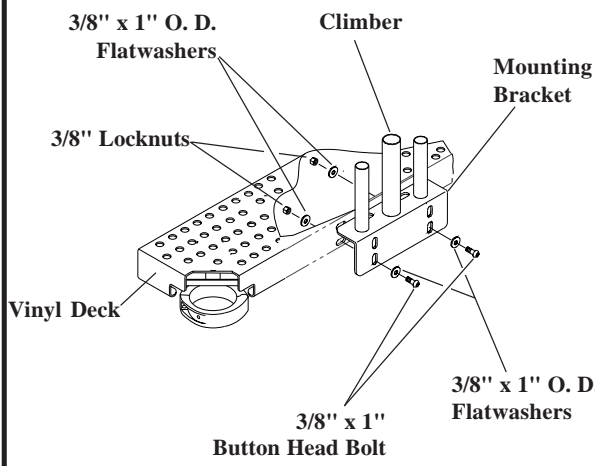


FOOTING DETAIL



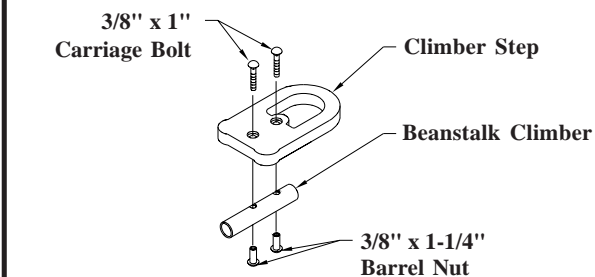
ASSEMBLY VIEW

BEANSTALK CLIMBER

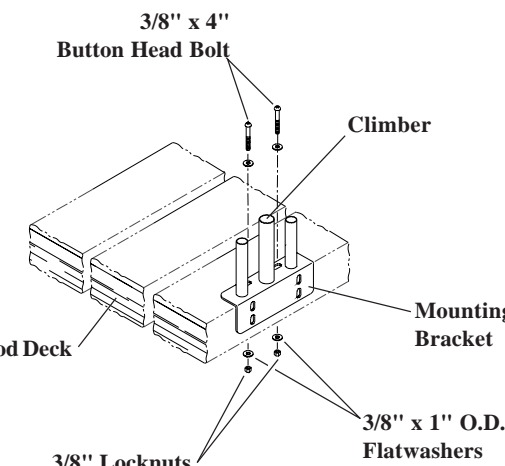


DETAIL 'A'

Vinyl Deck Application Shown



DETAIL 'C'



DETAIL 'B'

Modular Wood Deck Application Only



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SE-2204

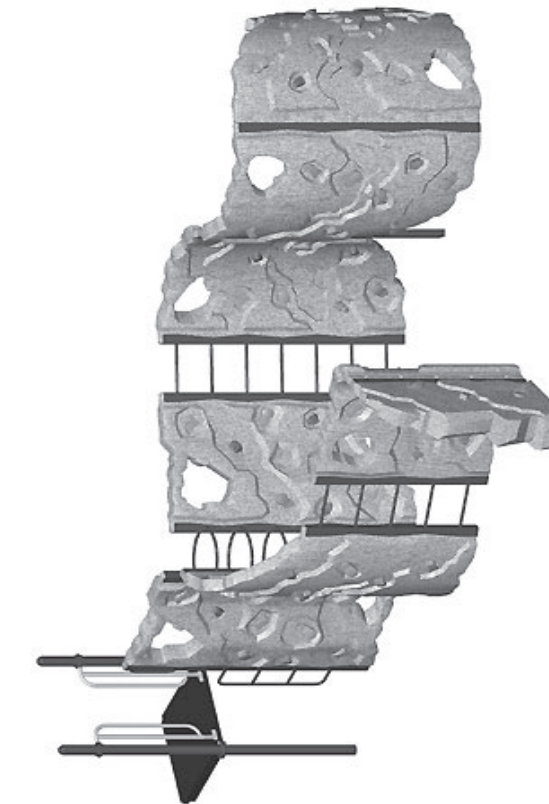


INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
RockBlocks™

Installation Preparation . . .
Recommended Crew: Three (3) adults
Installation Time: 1 hour per footing hole and single rock wall
Concrete Required: 0.13 cubic yard / support post - in ground only
Use Zone: 72 in. (1829 mm) all sides
User Group: Ages 5 - 12 years

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.

Maintenance . . .
• Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
• Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
• As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

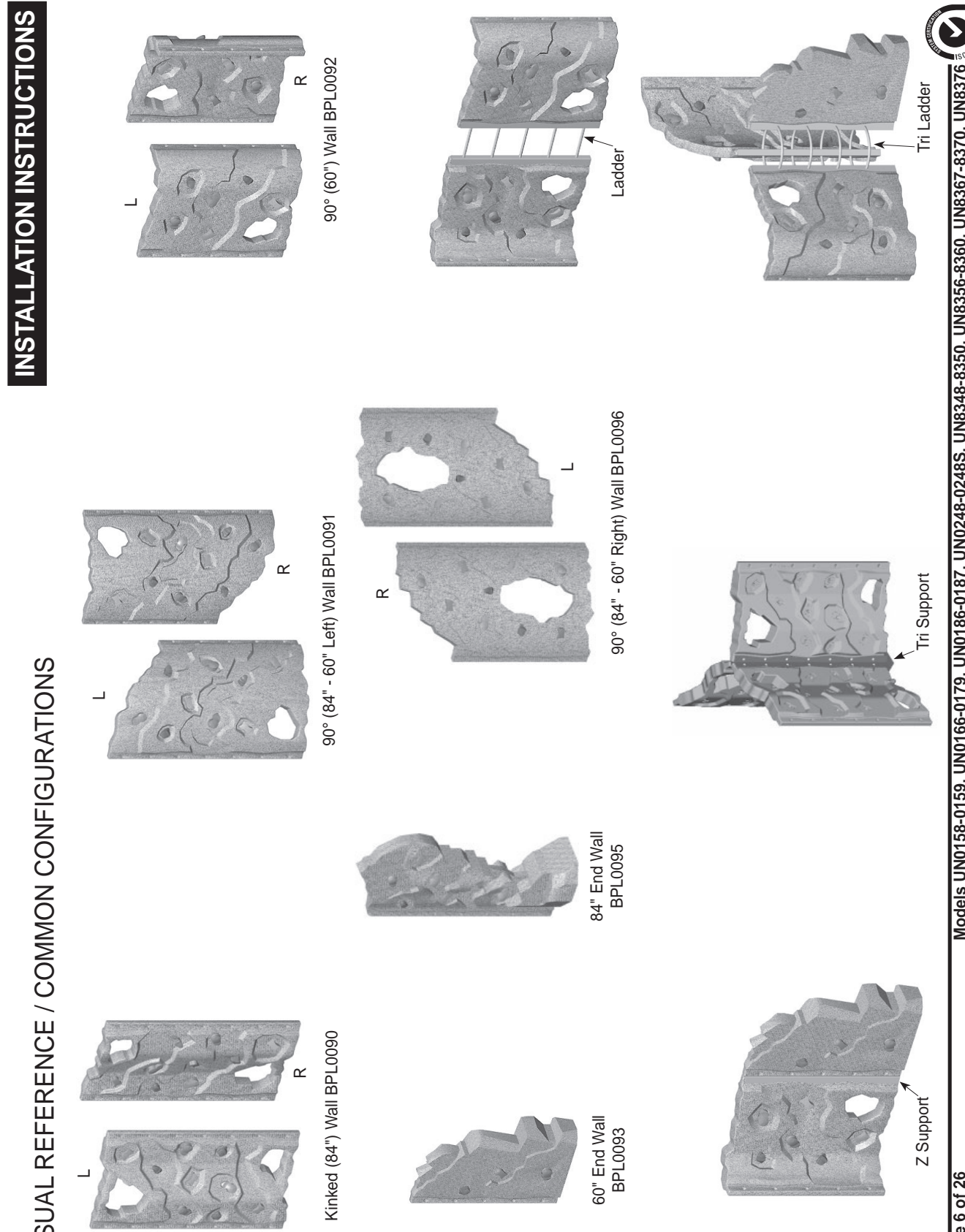


Assembly View

View shown above is for visual reference only and may not be your configuration

Models UN0158-0159, UN0166-0179, UN0186-0187, UN0248-0248S, UN8348-8350, UN8356-8360, UN8367-8370, UN8376-PA0971, PA1009, PA1029, PA1036, PA1086, PA1087, PA1102

VISUAL REFERENCE / COMMON CONFIGURATIONS



INSTALLATION INSTRUCTIONS

Models UN0158-0159, UN0166-0179, UN0186-0187, UN0248-0248S, UN8348-8350, UN8356-8360, UN8367-8370, UN8376-PA0971, PA1009, PA1029, PA1036, PA1086, PA1087, PA1102

Page 6 of 26



Installation Preparation . . .
Recommended Crew: One (1) adult
Installation Time: 15 to 20 minutes

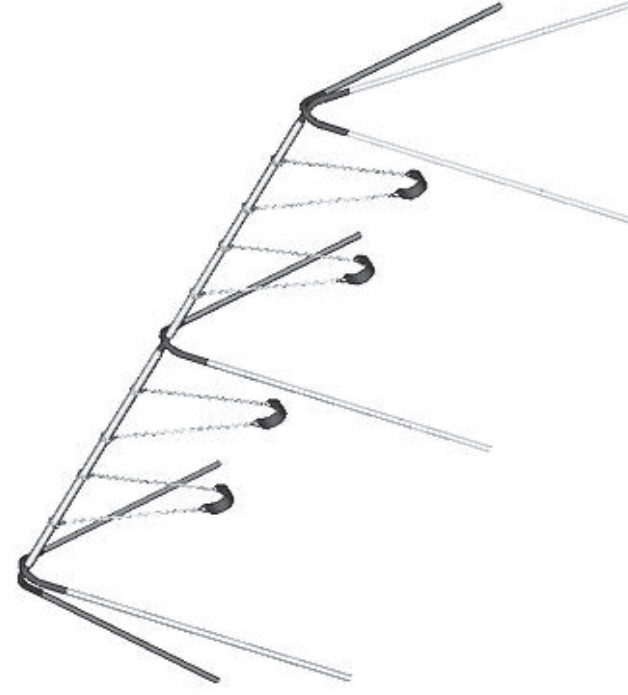
Maintenance . . .

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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Page 1 of 2



INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0232
8 ft. (2438 mm) HEAVY DUTY SWING
ADD-A-BAY



Assembly View

Installation Preparation . . .

Recommended Crew: Three (3) adults
Installation Time: 1.5 man-hours
Weight: 176.3 Lbs. (80.1 Kilos)
Concrete Required: 0.26 cubic yard
Use Zone: See page 1 for Swing Use Zone information.
User Group: Ages 2-12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

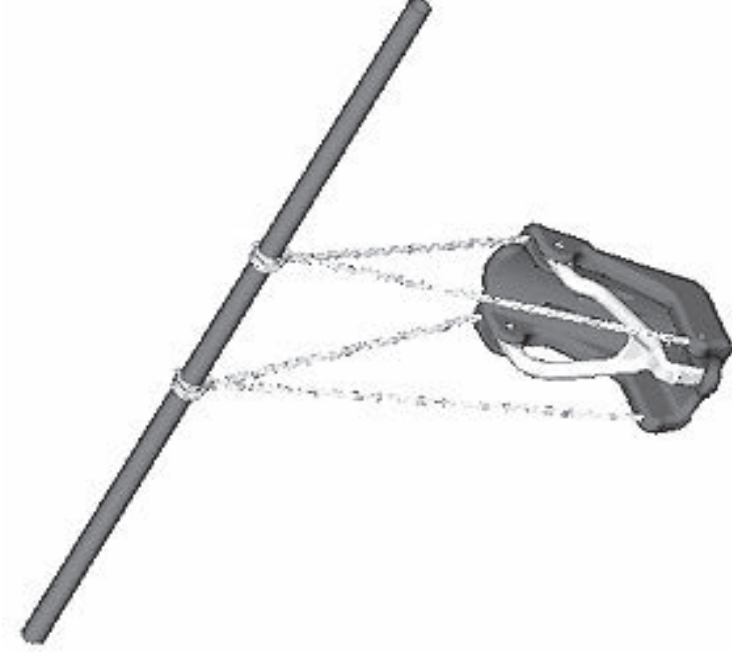
Maintenance . . .

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

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INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0244
ACCESSIBLE SWING SEAT
8 ft. (2438 mm) TOP RAIL



Assembly View

THIS ACCESSIBLE SWING SEAT HAS BEEN DESIGNED FOR COMMERCIAL USE ONLY. IT IS NOT INTENDED TO BE USED WITH HOME OR BACK YARD PLAY EQUIPMENT. IT IS RECOMMENDED THAT THE ACCESSIBLE SWING SEAT BE ATTACHED AT THE END (OR LAST POSITION) OF THE SWING FRAME.

Installation Preparation . . .

Recommended Crew: One (1) adult
Installation Time: 0.5 hour
Weight: 26.9 lbs. (12.2 Kilos)
Use Zone: 26 ft. (6706 mm) Total Front and Back
User Group: Ages 3 and up

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

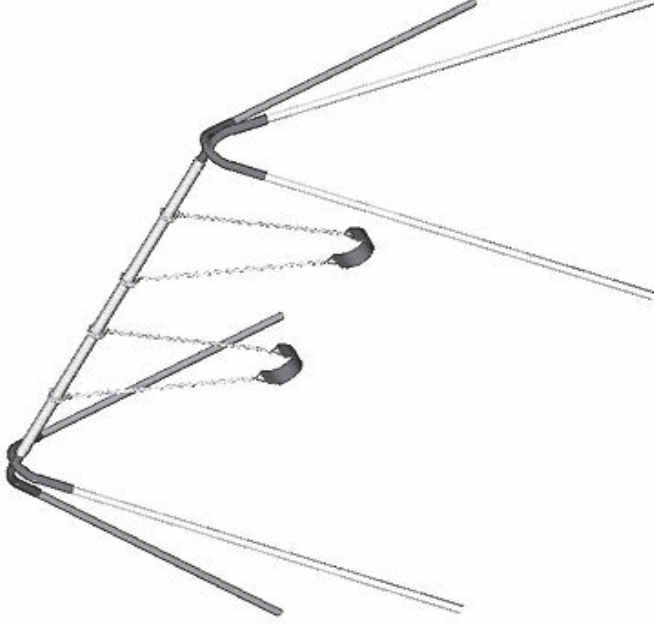
Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

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INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX0270
8 ft. (2438 mm) 2-UNIT HEAVY DUTY SWING



Assembly View

Installation Preparation . . .

Recommended Crew: Three (3) adults
Installation Time: 3.5 man-hours
Weight: 333.4 Lbs. (151.5 Kilos)
Concrete Required: 0.78 cubic yard
Use Zone: See page 1 for Swing Use Zone information.
User Group: Ages 2-12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.

Page 5 of 14



INSTALLATION INSTRUCTIONS

**PLAYWORLD SYSTEMS®
MODEL XX0278**

BELT SWING WITH PLAYARMOUR® CHAIN
8 ft. (2438 mm) Top Rail Height



Assembly View

Installation Preparation . . .
 Recommended Crew: One (1) adult
 Installation Time: 0.25 hour
 Weight: 8.7 lbs. (4.0 Kilos)
 Use Zone: 384 in. (9754 mm) Total Front and Back
 User Group: Ages 5 and up

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

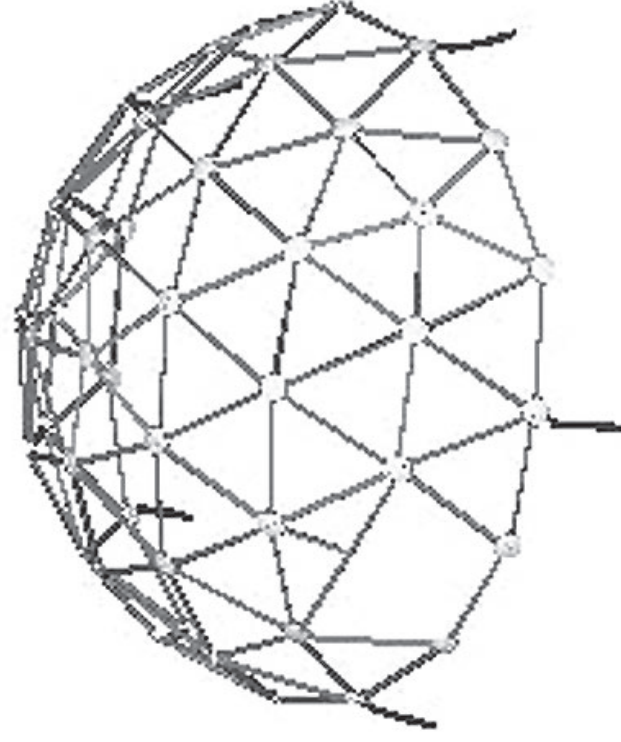
Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS

**PLAYWORLD SYSTEMS®
MODEL XX0400
SUPER DOME**



Assembly View

Installation Preparation . . .
 Recommended Crew: Four (4) adults
 Installation Time: 10 man-hours
 Weight: 400 Lbs. (180 Kilos)
 Concrete Required: .15 cubic yard
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 5 - 12

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

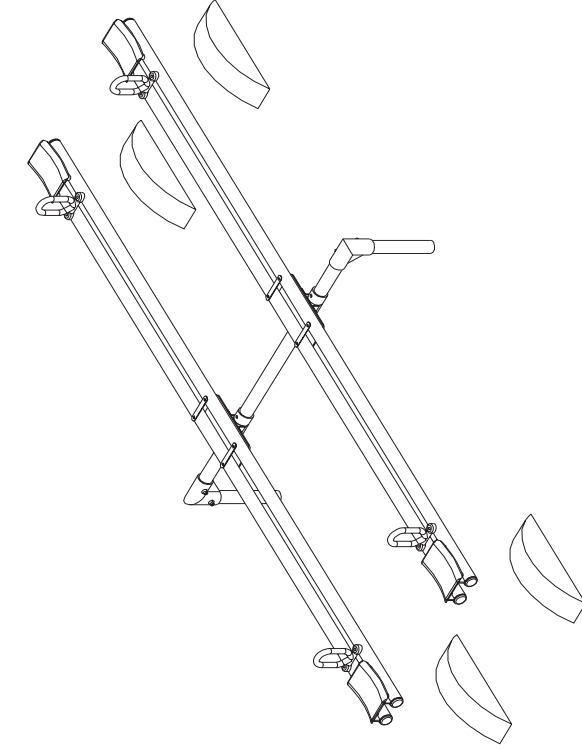
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INSTALLATION INSTRUCTIONS

**PLAYWORLD SYSTEMS®
MODEL XX0605**

4-SEAT SEE-SAW WITH FIXED FULCRUM



Assembly View

Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 4 man-hours
 Weight: 323.6 Lbs. (145.6 Kilos)
 Concrete Required: 0.06 cubic yards (0.05 cubic meters)
 Use Zone: Refer to information on Page 1
 User Group: Ages 5 - 12 years

Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

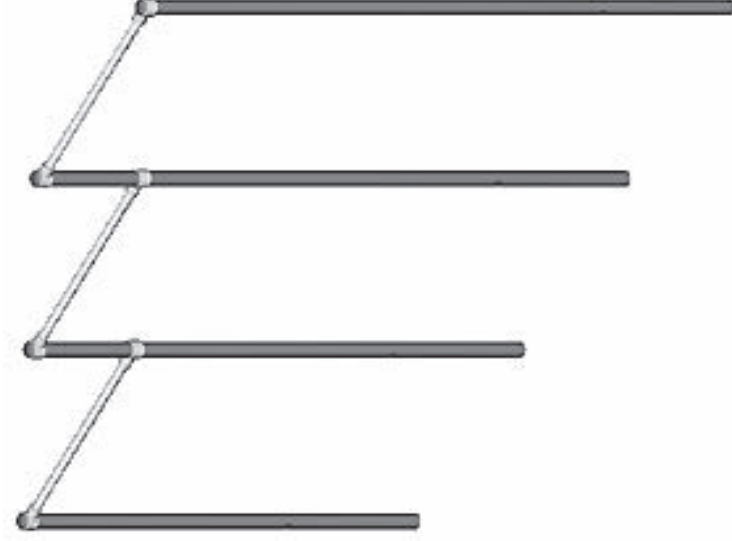
Maintenance . . .

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with the appropriate standard for your location appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS

**PLAYWORLD SYSTEMS®
MODEL XX1013
TRI-LEVEL BARS**



Assembly View

Installation Preparation . . .
 Recommended Crew: Two (2) adults
 Installation Time: 2.5 man-hours
 Weight: 104.1 Lbs. (47.3 Kilos)
 Concrete Required: 0.12 cubic yards
 Use Zone: 72 in. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:

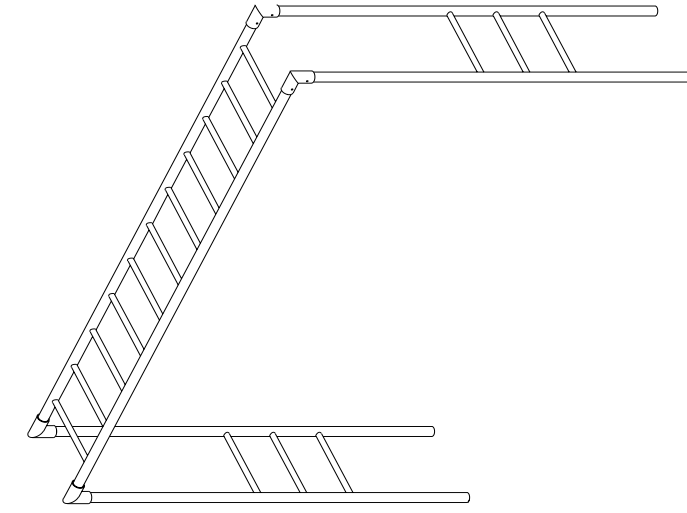
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems® strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX1015
 LARGE HORIZONTAL LADDER



Assembly View

Installation Preparation . . .

Recommended Crew: Two (2) adults
 Installation Time: 2.5 man-hours
 Weight: 230 Lbs. (104 Kilos)
 Concrete Required: 0.12 cubic yard
 Use Zone: 72 in. (1829 mm) all sides
 User Group: Ages 5 - 12 years

Torque Specification:

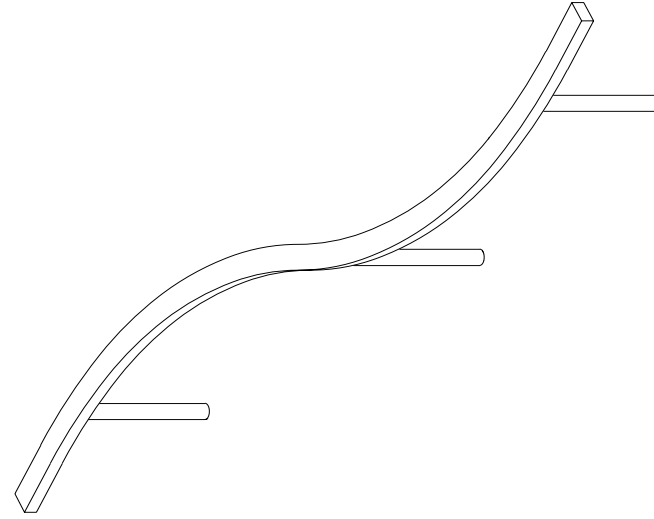
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
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INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX1020
 CURVED BALANCE BEAM



Assembly View

Installation Preparation . . .

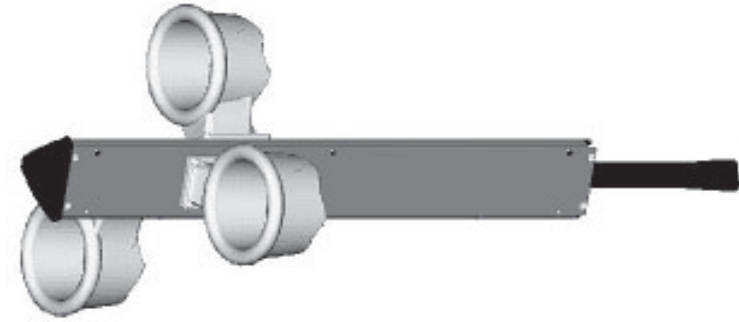
Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 62 Lbs. (27.9 Kilos)
 Concrete Required: 0.11 cubic yard
 Use Zone: 6 ft. (1829 mm) all sides
 User Group: Ages 2 - 12 years

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX1051
 TRIPLE SHOOTOUT



Assembly View

Installation Preparation . . .

Recommended Crew: Two (2) adults
 Installation Time: 2 man-hours
 Weight: 359.2 Lbs. (163.3 Kilos)
 Concrete Required: .34 cubic yard
 Use Zone: 72 in. (1829 mm) all sides
 User Group: Ages 2 - 12 years

Torque Specification:

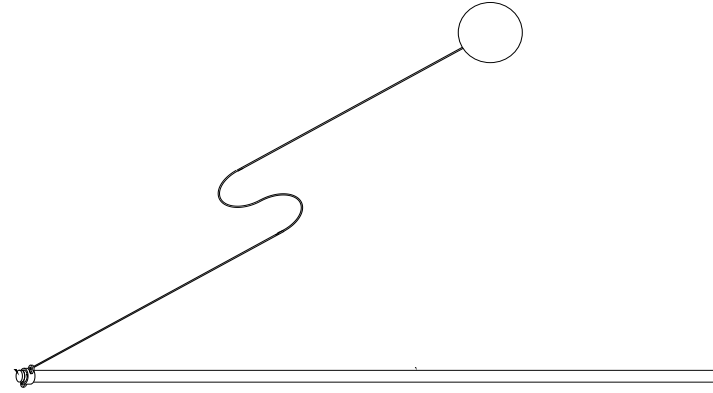
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



INSTALLATION INSTRUCTIONS
PLAYWORLD SYSTEMS®
MODEL XX1079
 TETHERBALL POST AND BALL



Assembly View

Installation Preparation . . .

Recommended Crew: Two (2) adults
 Installation Time: 1 man-hour
 Weight: 34.3 Lbs. (15.6 Kilos)
 Concrete Required: 0.14 cubic yard

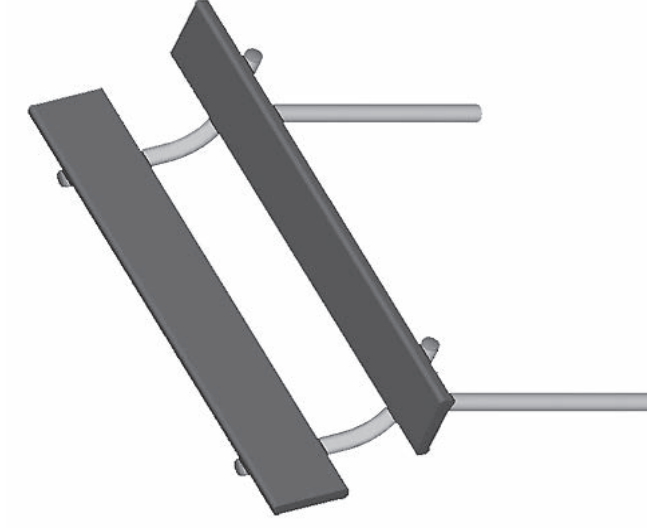
Torque Specification:

Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.





Assembly View

Installation Preparation . . .

 Recommended Crew: Two (2) adults
 Installation Time: 1.5 hours
 Weight: 93.3 Lbs. (42.4 Kilos)
 Concrete Required: 0.16 cubic yard

Torque Specification:
Bolts & Nuts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional full turn.

Maintenance . . .

- As the owner of equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Assembly View (representative model)

 Installation Instructions
 Playworld Systems® Models XX1425 and XX1425S
 6 ft. (1829 mm) Permanent Bench w/ Lettered Back
 (Coated Planks & Frame)
 In-Ground and Surface Mount

Installation Preparation

 Recommended Crew: Two (2) adults
 Installation Time (in-ground): 1.5 man-hours
 Installation Time (surface mount): 0.5 man-hours
 Concrete Required: 0.16 cubic yard (0.12 cubic meters)

ICON KEY	
	Fully Tighten Hardware
	Do Not Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

