Project No. D-48-691 (R6013-0A0)

Project Director: Glenn E. Lewis

Sponsor: City of Dublin School Board


Award Period: From 4/25/85 To 9/25/85 (Performance) 9/25/85 (Reports)

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Funded: $10,000

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Title: Redesign of Six Playgrounds for the Dublin, Georgia City Schools

ADMINISTRATIVE DATA

1) Sponsor Technical Contact:
   Dublin High School
   Shamrock Road
   Dublin, GA 31021

2) Sponsor Admin/Contractual Matters:
   Bowman Barr
   Superintendent of Schools
   Dublin High School
   Shamrock Road
   Dublin, GA 31021

Defense Priority Rating: N/A

Military Security Classification: N/A

RESTRICTIONS

See Attached N/A Supplemental Information Sheet for Additional Requirements.

Travel: Foreign travel must have prior approval - Contact OCA in each case. Domestic travel requires sponsor approval where total will exceed greater of $500 or 125% of approved proposal budget category.

Equipment: Title vests with GIT

COMMENTS:

COPY TO: SPONSOR'S D. NO. 02.300.000.86.002

Project Director
Research Administrative Network
Research Property Management
Accounting

Procurement/GTRI Supply Services
Research Security Services
Reports Coordinator (OCA)
Research Communications (2)

GTRC
Library
Project File
Other A. Jones
**Project No.** D-48-691  
**Includes Subproject No.(s)** N/A  
**Project Director(s)** Glenn E. Lewis  
**Sponsor** City of Dublin School Board  
**Title** Redesign of Six Playgrounds for the Dublin, Georgia City Schools  
**Effective Completion Date:** 10/23/85  

**Grant/Contract Closeout Actions Remaining:**

- [ ] None  
- [x] Final Invoice or Final Fiscal Report  
- [ ] Closing Documents  
- [ ] Final Report of Inventions  
- [ ] Govt. Property Inventory & Related Certificate  
- [ ] Classified Material Certificate  
- [ ] Other

**Continues Project No.**  
**Continued by Project No.**

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- Project Director  
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- Project File  
- Other  
  - Heyser, Jones, Embry

**FORM OCA 69.285**
Redesign of six Playgrounds for the Dublin City Schools

CENTRAL
HILLCREST
JOHNSON STREET
MOORE STREET
SAXON
SUSIE DASHER

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Contributions by
Dr. Jean Wineman & Dr. Craig Zimring
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SELECTED PLAYGROUND DESIGN ISSUES
Constitutes pages two-fourteen

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INTRODUCTION

The primary objective of this project is to assist the Dublin City School Board with the redesign/development of six existing school playgrounds which maximize play value and learning experience while keeping safety as the overriding controlling factor.

The Principal Investigator with the assistance of Consultants performed the necessary data gathering and design studies to make the recommendations which are forthcoming within this document and the Playground Plan Layouts.

Playground design often represents a collision between the developmental and recreational needs of children and the needs of adult supervisors for control, safety, and ease of maintenance. What kids like most -- opportunities to manipulate objects, physical challenges, etc. -- one viewed as being dangerous, messy or chaotic by adults. Adventure playgrounds, where kids can, with supervision, build their own playground with surplus construction materials, one popular in England, but have never caught on in the U.S.

An awareness of what children like and need, and of what has worked well in the past (for example, designing the whole site three-dimensionally rather than focusing on individual pieces of equipment) allows for some improvement, even within the context of conservative adult expectations. Many playground designers are going even further; however, and are working with children and with adult decision-workers. The most successful designers have enabled adults to tap their own childhood experiences, encouraging them to support more innovative designs and to be involved with playground construction and with ongoing supervision and maintenance.
DEVELOPMENTAL NEEDS

What needs do children have that should be reflected in playgrounds? Most generally they should be able:

- to exercise both gross motor and fine motor skills;
- to feel comfortable and be reasonably safe;
- to feel competent;
- to be physically and intellectually challenged.

These needs can be considered in three categories:

- Physical needs
- Socioemotional needs
- Cognitive development needs

PHYSICAL NEEDS

Movement
Younger children, especially preschool to grade 2 or grade 3 require opportunities for movement and gross motor activity: older kids are more socially-conscious "to deny activity is to halt development at its course" (Olds, In Press).
It's the designer's role to come up with a design that channels behavior into an appropriate mode that respects the needs of teacher, parents and others.
Safety
Playgrounds should offer graduated challenges to allow children to choose their own level of safety.

Playground surfaces should be resilient, especially under swinging and climbing equipment. (choice of surface remains a problem; loose surfaces such as pine bark or sand require maintenance, rubber is expensive and requires replacement every 6 months or so; dirt, though sometimes muddy, is usually the preferred surface).

SOCIOEMOTIONAL

Self-esteem
Has two components: "I matter and have value," and "I'm competent." These feelings can be fostered by making the setting child-scaled--allowing kids to take care of themselves--using clear, well-organized, comprehensible, layouts, etc. Activity areas should not conflict: active play areas should not disrupt crafts or quiet play. Where appropriate storage should be provided that is adequate in size, child-accessible, where items can be kept in plain sight (so kids can choose activities themselves), allows partially completed projects to be stored (so kids get a sense of importance and continuity).

Security and Comfort
Comfort is enhanced by society in levels of arousal: light and dark areas, isolated and social areas, range of heights, etc. Comfort is enhanced by the use of friendly, warm colors. Some theorists now believe that hyperactive children require highly arousing environments and that their constant activity is really an attempt to awaken their nervous systems. (Olds, In Press)
Where possible, presence of water has been found comforting. (Weinstein, In Press) Previewing (being able to see an activity before the child is committed to participate in it) is often comforting, especially for younger or disabled children (Weinstein, in Press)

Self-Control
Some research suggest kids in more open spaces are more aggressive, perhaps because of increased stimulation from more children and awareness of more ongoing activities. (Weinstein, In Press) The environment should make self-control as easy as possible, such as by reducing conflicts between activity areas and providing adequate storage and trash receptacles.

Accountability may be increased by increasing possibilities for surveillance by adults or passerby, except for intentional withdrawal area. Adult areas should probably be on the corner or edge of a playground rather than the center; surveillance is easier from a corner.

Peer-Interaction
Younger children tend to play in groups of 2-4; older children who engage in organized games may play in larger groups. The playground should be portioned to allow group play but reduce conflicts.

Sex-Role Identification
By age 3 or 4 children engage in sex-typed activities with boys generally more active; older girls tend to sit and watch boys engage in active play (although this behavior may be changing). Non-conflicting areas for boys and girls to play need to be provided
COGNITIVE

Symbolic Play / Abstract Reasoning
Younger children may require more concrete props than older children (but avoid concrete ducks at all costs). Younger children need opportunities for manipulative activities and classification (by shape, color, size, etc.)

AGE-SPECIFIC ACTIVITIES

Kindergarten-3
For younger children, the playground should provide a stimulating setting for large motor activities, such as climbing, swinging, running. To encourage participation there should be a high density of activities (activities or artifacts per square yard). The environment should be complex in terms of spaces, levels and ways to move among them...up, down, around, inside, under, on top, through. The more ways on and off a play structure, the more children can play. For the kindergarten age child, sand play is particularly inviting.

Grades 4-6
Beginning in grade 3 and especially for children in grades 5 and 6, social activities and games with rules are favorite pastimes. A black top area should be provided for activities such as basketball, dodgeball, jump rope, and hopscotch. Places to sit and talk are important. For example, picnic tables are popular benches which may serve for both children's conversation and for parent/teacher viewing of play activities.

A playground designed for grades k-6 need not be divided into a younger and older children's area. Play structures for young children are simply used differently by older children. Often they become props for other activities such as games of tag or seating places for conversation.
DESIGN PRINCIPLES: Overall Site Design

Principle: *Sense of Place*
Every play environment must be given a unique spirit, a "genius loci". The formation of the design concept is the organization of the parts within an ordered "theme". This creates its sense of place. Sense of place impacts upon the mind of the users, affecting imageability and the cognitive mapping of the place. (From Shaw, In Press)

Principle: *Variety of Spatial Experiences*
To assist in the awareness of space, children should be able to experience spaces through various sensorimotor and locomotor activities. A rich variety of space and the location of objects in space provides for a range of experiences. The following spatial relations - and others - can be built into sequences of experiences: on, in, beside, behind, through, below, above, along, under, over, before, between, against, around, across, apart, near, far, away, toward. (From Moore & Cohen 1977)
Use the objects and spaces on the play area to create a diversity of experiences with a range of shapes and sizes that are immediately accessible to the children. Consider an ordering of some of the spaces from small to large so that they are immediately accessible to the children.
Consider an ordering of some of the spaces from small to large that comparisons are easily made. (From Schneekloth 1981)

Principle: *Key Places*
A key Place will be dominated by one major element such as a slide, falling pad, etc. Surrounding the major element will be a complex juxtaposition of spaces and pathways. A playground needs several complex key places. Located in the concept state, they anchor the overall order of the environment. (From Shaw, In Press)
Principle: **System of Pathways**
A system of pathways is the internal and external methods of linking key activity areas. Paths should be diverse in their size, shape, and in the challenge they present. Such a system provides the children with choices and adds a significant amount of richness to a play environment. (From Shaw, In Press)

Principle: **Retreat and Breakaway Points**
Environments for children need places of Retreat and Points of Breakaway from major activities. A retreat from ongoing activities and a way out of too challenging or unenjoyable activities helps maintain positive self-concept. An ideal retreat is neither too close nor too far from other children and provides privacy and the opportunity for observing the behavior of peers from a safe distance and for imaginative and other quiet activities. A good breakaway point is located near a structure that might lead to any activity which might prove to be too challenging - it is a face-saving exit. (From Moore & Cohen, 1977)

Principle: **Non-Defined Spaces**
Provide settings which are undefined in real world terms. If a platform is provided, be sure that it is not an explicit copy of a fort so that the children can turn it into anything they want. A pile of rock, sand areas, geometric structures all provide the opportunity for imaginative play.

Principle: **Large Group, Small Group, and Alone Places**
Provide playground spaces that encourage the three forms of social interaction during free play. Alone places should be small, set off and defendable and yet some of them should be located within auditory and visual range of other activities. Places for large group gatherings need more space, yet maintain boundaries in order to provide a sense of containment. Be sure that all three kinds of places are scattered throughout the playgrounds. (From Schneekloth 1981)
Principle: **Continuous Links**
The environment should allow for activities to flow and move actively and continuously with multiple branches and alternatives at crossroads and decision points. When a child has come to the end of one activity or a cycle of activities, there should be immediately and obviously a choice of continuing. Continuity and Branching can enhance motor activity, free play, exploration, and discovery, attention span, decision making and spatial awareness. (From Moore & Cohen 1977)

Principle: **Continuum of Fixed to Loose Parts**
The play environment should contain a continuum of fixed to moving parts:

1. Loose parts - large blocks, tires, boards, etc.
2. Fixed moving parts
   - Large scale: gates, turnstiles, windows, doors, etc.
   - Small scale: latches, doors knobs, hooks, gears, handles, etc.
3. Fixed parts - structures, districts and boundaries which provide for permanence and stability. (From Schneekloth 1981)

Principle: **Three-Dimensional Juxtaposition of Parts**
Layer the parts of the playground during design so that spaces, places, platforms, and paths interact vertically. This stacking, or three-dimensional juxtaposition, will maximize physical, verbal, and visual interactions between users.

Principle: **Density of Structures**
Group the structures together in dense communities. Make sure that they are linked in a variety of ways so that each connection provides at least four different choices of how to proceed either up, down, across, through, or into. (From Schneekloth 1981) The density of activities (activities or artifacts per square yard) should be high.
Principle: *Safety*
Allow for the safe circulation of children around and through the play environment by means of a safe path which is well defined. Contain those activities such as bicycle traffic and swinging in a way that it is apparent to the child when he enters those areas.

Soft areas and resilient surfaces must be provided around equipment where there is the potential for falling. Use graduated challenges, safety rails, soft surfaces, textures, etc., to make the places understandable and as accident proof as possible. (From Schneekloth 1981)

Principle: *Include Amorphous Materials*
As much as possible, include amorphous materials such as sand. (From Schneekloth 1981)
EQUIPMENT CHOICE / DESIGN

Monkey Bars
Climbing equipment (monkey bars, and so on) can be constructed from wood or metal. Wood, splinters and all, has certain advantages over metal. It is not as hot to bare skin and it is softer. The problem with splinters can be reduced, almost eliminated, by selecting high quality hardwoods and refinishing frequently with a high grade exterior filler and/or enamel. Monkey bars, like all other common equipment, are available in various sizes. One of the most obvious, yet often overlooked, preventive measures in accident prevention is matching the size of equipment to the physical size and abilities of children who will use that equipment.

Exposed, protruding bolts are common on almost all commercial metal equipment. The most serious criticism of monkey bars is the existence of a steel bar jungle waiting to catch the child who fall from the top. Recommended apparatus: Jungle Jim, Geodesic dome or arch climber

Slides
The usual school playground-type slide is tall (up to 16 feet high), and narrow (less than 2 feet wide) with almost no protection from falling off the side (most accidents occur here). There is no safety platform for the critical "transition zone" from the ladder to the slide so the younger child, growing in coordination, performs a delicate balancing act as she/he attempts to swing legs and torso from the rear (ladder) to the front (slide). At this point the slightest push can mean a fall to the ground or equipment below. A number of newer types of slides are now available that incorporate alternate access and exit routes; wide, fence areas in critical height zones; and, platforms for movement from ladder to slide. These are available in varying heights and sizes.

Swings
Swings and swinging apparatus are involved by various surveys in about 25 percent of
the injuries on playgrounds. Being hit by a swing seat is perhaps the most common hazard. Despite the ease of eliminating this problem by replacing wooden and heavy seats with canvas or rubber belts, an analysis of company catalogues showed that swing sets are constructed from rubber, canvas, polyethylene, wood, aluminum, and other metals and they weigh from two to 56 pounds. Two situations account for most of the swing seat-related accidents. The child falls from the swing and is hit on the head by the return sweep of the seat and the child runs or walks into the path of a moving swing. These accidents are particularly frequent for younger children who have not yet developed sufficient cause-effect thinking required to anticipate hazardous events. A survey of accidents in an urban and a suburban system (Butwinick, 1974) found that 22 percent of the equipment injuries in the urban system that used wooden seats occurred on swings, but, in the suburban system which used only canvas belt-type seats, only 9 percent occurred on swings.

The rigid swing seat, unlike the canvas or rubber belt, encourages standing in the swing thus increasing the likelihood of falling or hitting an adjacent swing or vertical equipment leg. Swings are typically set too close together, often as close as 12 to 17 inches, making it difficult to swing without collisions. Seat heights range from just above the ground to three or more feet high, rarely being fitted to the sizes of the children.

**Merry-Go-Rounds**

Many people question whether merry-go-rounds should be used at all. They have a reputation for being hazardous and for having limited play function. Merry-go-rounds are more limited in play function than some other types of equipment. The injury rate on merry-go-rounds could be reduced by proper installation, built-in speed controllers, and some degree of supervision. Many merry-go-rounds have open spaces in the platform large enough for children to fall through, weak axles that bend, foundations that give way to the extent that arms and legs can be trapped underneath, and protruding bolts that can increase the severity of injury.
Seesaws
The seesaw is functionally narrow as a vehicle for play. The child can go up, down or fall off that's all. No dramatic play is involved, no constructive play is involved, the child's thinking is minimally enhanced, no impact on the equipment is made -- nothing is created. The same is true for a wide range of springy equipment given such names as "jumpy horse," "bucky-bout," "kangaroo hop," "bucky bronco," and "poppy porpoise." They consist of a spring base with a plastic animal body for the child to sit on. The primary play function is jumping up and down. They stand idle on well-equipped play grounds where interesting choices are available, and they represent a questionable investment of money.

Supervision and Maintenance
In the relatively small number of injuries in other categories, most appear to be caused by errors of maintenance rather than to defects in equipment.

Misuse of equipment is related to the natural tendencies of children to extend themselves, to be daring, to show off, to engage in rough housing. Butwinick's (1974) survey found that 21 percent of accidents are caused by such factors as fighting, pushing, inattention, blind running, and foreseeable misuse. All of these factors are at least indirectly tied to the nature of supervision available for the playground. It would appear that the presence of adults is a very relevant factor in the safety of children on playgrounds.

Modern Commercial Equipment
During the past decade a number of manufacturers have modified existing equipment and developed new types of equipment. The most obvious change is the increasing substitution of wood for metal in manufacturing. This switch has some obvious advantages, wood is considered more attractive, it is softer and retains a comfortable (to touch) temperature under extreme temperature conditions. However, metal is strong and durable and will continue to be used.
Equipment should be designed to be used separately for one or more play functions. Equipment should be designed to various scales to accommodate particular age groups.

The development of gross motor skills is the primary goal. The typical layout of equipment is suggested to be circular in layout, enticing the child to move from piece to piece, each requiring different motor skills, much like an obstacle course.

Play environments should be places for challenging, flexible, creative activities yet safe and aesthetically pleasing. It is recommended that safer installation of equipment in sand or other resilient areas.

**Principle: Child Scale**
The size and range of the children using the play environment is of prime importance when making decisions concerning dimensions of parts. (From Schneekloth 1981)

**Principle: Graduated Challenges**
Paced Alternatives may insure that incremental, paced increases in required skills exist throughout the child's environment. The environment may dynamically pace the child without exceeding the optimal level of discrepancy between the child's current level of competency and the demands put on him or her by the environment. There must be stimulation for continuing to the next level and alternative amounts of challenge and tension.

The physical environment should contain objects and spaces that create experiences along a continuum of simple to complex. There should be simple to complex alternatives for every motor activity possibility and this should be related to each other. (After Moore and Cohen)
Principle: **Movement of the Body through Space**
Design the play environment with a variety of spaces and apparatus which encourage large muscle involvement. Activities such as sliding, gliding, swinging, rocking, hanging, etc., are important for the child’s movement experience. (From Schneekloth 1981)

Principle: **Variety of Surface Finishes**
Different textures allow the child to experience different tactile sensations. A range of surface material finishes on the horizontal, vertical, and inclined surfaces of the playground add richness and variety of the users’ experiences. Textured differences should reinforce major design decisions. (From Shaw, In Press)

Principle: **Materials That Produce Sounds**
Use several different types of materials in the construction of play environment structures in a fashion that will allow the children to strike the different materials to produce sounds. (From Schneekloth 1981)

Principle: Defensible Space: King of the Mountain
Children enjoy the experience of defending a space, as occurs in the King of the Mountain game.

Develop a structure that will contain safe spaces which by location can be defended by one child. (From Schneekloth 1981)
PLAYGROUND HAZARDS

The growing movement to improve play equipment and children’s playgrounds is related to the growing body of data on playground injuries and deaths. The National Electronic Injury Surveillance System (NEISS) data has confirmed that: (1) falls are the most common factor contributing to injury, (2) the head, face, and neck are the body parts most frequently injured, and (3) lacerations are the most frequent type of injury.

Climbing equipment is most often associated with injuries on public playgrounds. This appears to be related to the frequency of falls from equipment.

The most frequent hazard associated with playground equipment is falls, particularly from slides and climbing apparatus. Three-fourths of all the injuries (reported by NEISS) were falls to the ground (ground or artificial surface such as concrete and asphalt) or onto other equipment.

Three major types of hazards related to playground equipment:

1. Hazards attributable to defects in construction and design
2. Hazards resulting from improper installation and maintenance
3. Hazards associated with function (resulting from human error).
SCHOOL PROFILES

The following profiles identify each school, grade levels, population, play schedules, recommendations and specific play apparatus (*variable price ranges*). Any apparatus or combination of apparatus on the vendor equipment list under the specific grade level categories (*Large Motor Activities K-3, Large Motor Activities 4-6*) are appropriate for the designated playground.

The first playground graphic represents the current playground site layout. These graphics are copies of larger graphic presentation boards which include detail site documentary photographs (positioned within the graphic box format). Reproduction methods and size rendered the detail site documentary photographs illegible. However, the presentation boards are included within the study package.

The second graphic represents the proposed playground site layouts, which identify the location of play apparatus. However, play apparatus illustrated serve as generic props suitable for replacement by those within the vendor equipment list.
Central

Grade: 4 - 6
Population: 424

Play Schedule:
4th Grade 150 students
5th Grade 135 students
6th Grade 150 students

Recommendation: General repair of existing equipment, particularly the swings. Elimination of the Seesaws, which have exposed sharp metal edges. Seesaws are considered functionally narrow as play vehicles for 4 - 6 grade populations. The child can go up or down or fall off, that’s all. No dramatic play is involved, no constructive play is involved, the child’s thinking is minimally enhanced, no impact on the equipment is made. Nothing is created.

Installation of Play Systems which adhere to the Age-Specific Activities as outlined in the preceding pages. Specifically, that which provides a stimulating setting for large motor activities, such as climbing, swing, and running. The overall play environment should be complex in terms of space, levels and ways to move among them…up, down, around, inside, under, on top and through.

Play area under and around swing and climbing equipment should be resilient and possibly bordered with wood ties.

The apparatus pictured on the playground plan are representative of the type systems that facilitate the 4th through 6th grade populations. However, there are alternative Play systems identified and listed
under the category of **Large Motor Activities 4-6**. Prices vary with different vendors.

Maintenance checks are recommended on a frequent basis.
1 Auto & Tractor Tires
2 Benches
3 Swings in original location
4 Turning bar
5 Revolving tire balance
6 Multiple activity apparatus
7 Jungle Jim relocated
8 Horizontal ladder relocated
9 Slide relocated
10 Bike rack original location
HILLCREST

Grade: 1 - 6

Population: 290

Play Schedule:
1st & 2nd Grade 96 students
3rd & 4th Grade 110 students
5th & 6th Grade 100 students

Recommendation:
Elimination of the Merry-Go-Round. This apparatus has a reputation for being hazardous and for having limited play function. Many merry-go-rounds have open spaces in the platform large enough for children to fall through, weak axles that bend, foundations that give way to the extent that arms and legs can be trapped underneath, and protruding bolts that can increase the severity of injury.

Installation of Play Systems which adhere to the Age-Specific Activities as outlined in the preceding pages. Specifically, that which provides a stimulating setting for large motor activities, such as climbing, swing, and running. The overall play environment should be complex in terms of space, levels and ways to move among them...up, down, around, inside, under, on top and through. However, playgrounds designed for grades 1 - 6 need not be divided into a younger and older children's area. Play structures for young children are simply used differently by older children. Often they become props for other activities such as games of tag or seating places for conversation.

Play area under and around swing and climbing equipment.
should be resilient and possibly bordered with wood ties.

The apparatus pictured on the playground plan are representative of the type systems that facilitate the 1st through 6th grade populations. However, there are alternative Play systems identified and listed under the category of Large Motor Activities K-3 & Large Motor Activities 4-6. Prices vary with different vendors.

Maintenance checks are recommended on a frequent basis.
1 Swings in original location
2 Horizontal ladder original location
3 Bench cluster
4 Monkey bars original location
5 Revolving tire balance
6 Slide, original location
7 Multiple activity apparatus
8 Benches
9 Wood bordering
Johnson Street

Grade: 1 - 3
Population: 167

Play Schedule: 1st & 2nd Grade 89 students (East)
1st, 2nd & 3rd Grade 86 students (West)

Recommendation: As a result of the impending discontinuance of this facility, minimal equipment specification has been designated.

   General repair of existing equipment, specifically the metal climbing apparatus at the east end of the facility.

   Installation of Play Systems which adhere to the Age-Specific Activities as outlined in the preceding pages. Specifically, that which provides a stimulating setting for large motor activities, such as climbing, swinging, and running.

   Play area under and around swing and climbing equipment should be resilient and possibly bordered with wood ties as illustrated in the Playground plan.

   The apparatus pictured on the east and west playground plans are representative of the type system that facilitates the 1st through 3rd grade population. These apparatus are smaller in size and capable of being moved upon discontinuance of school operation. However, there are alternative Play systems identified and listed under the category of Large Motor Activities K-3. Prices vary with different vendors.
Maintenance checks are recommended on a frequent basis.
Johnson Street

Metal climbing structure

Exposed bolts such as these are extremely dangerous to children

Wood, splinters and all, less chance of injuries over metal

Swinging apparatus are involved in approximately 22% of injuries on playgrounds. Soft materials such as rubber, canvas & polyethylene discourages standing in the swing.
Moore Street

Grade: 1 - 6

Population: 440

Play Schedule:
- 1st & 2nd 150 students
- 3rd & 4th 160 students
- 5th & 6th 140 students

Recommendation:
General repair of existing equipment, particularly the swings. Elimination of the Seesaws, which have exposed sharp metal edges. Seesaws are considered functionally narrow as play vehicles for 1st through 6th grade populations. The child can go up or down or fall off, that’s all. No dramatic play is involved, no constructive play is involved, the child’s thinking is minimally enhanced, no impact on the equipment is made. Nothing is created.

Installation of Play Systems which adhere to the Age-Specific Activities as outlined in the preceding pages. Specifically, that which provides a stimulating setting for large motor activities, such as climbing, swing, and running. The overall play environment should be complex in terms of space, levels and ways to move among them... up, down, around, inside, under, on top and through.

Play area under and around swing and climbing equipment should be resilient and possibly bordered with wood ties.

The apparatus pictured on the playground plan are representative of the type systems that facilitate the 1st through 6th grade populations. However, there are alternative Play systems identified and listed under the category of Large Motor Activities K-3 & Large Motor...
Activities 4-6. Prices vary with different vendors.

Maintenance checks are recommended on a frequent basis.
Saxon Street

Grade: 1 - 3
Population: 275

Play Schedule:
- 1st Grade 125 students
- 2nd Grade 120 students
- 3rd Grade 110 students

Recommendation: General repair of existing equipment, particularly the swings. Elimination of the Seesaws, which have exposed sharp metal edges. Seesaws are considered functionally narrow as play vehicles for this age population. The child can go up or down or fall off, that's all. No dramatic play is involved, no constructive play is involved, the child's thinking is minimally enhanced, no impact on the equipment is made. Nothing is created.

Installation of Play Systems which adhere to the Age-Specific Activities as outlined in the preceding pages. Specifically, that which provides a stimulating setting for large motor activities, such as climbing, swinging, and running. The overall play environment should be complex in terms of space, levels and ways to move among them...up, down, around, inside, under, on top and through. Seating is also specified for teachers and students.

Play area under and around swing and climbing equipment should be resilient and possibly bordered with wood ties as illustrated in the Playground plan.
This site has a water drainage problem which requires Play Systems to be located beyond the drainage overflow area. Correction of this problem is recommended for optimum play utilization.

The apparatus pictured on the playground plan is representative of the type system that facilitates the 1st through 3rd grade population. However, there are alternative Play systems identified and listed under the category of Large Motor Activities K-3. Prices vary with different vendors.

Maintenance checks are recommended on a frequent basis.
Saxon Heights

Drainage manholes

Basketball goal arbitrarily positioned without appropriate surfacing

Metal monkey bars

Metal climbing structure

Metal seesaws with dangerously exposed edges

Slide with almost no protection from falling off the side
1 Slide
   original location
2 Barrel tunnels
3 Bench
4 Dome Jungle Jim
   original location
5 Horizontal ladder
6 Swings
   original location
7 Climbing cluster
   original location
8 Benches
9 Swings
   original location
10 Bike rack
11 Multiple activity apparatus
Susie Dasher

Grade: Kindergarten

Population: 332

Play Schedule: 5 Classes 145 students
6 Classes 188 students

Recommendation: General repair of existing equipment, particularly the swings. Elimination of the Seesaws, which have exposed sharp metal edges. Seesaws are considered functionally narrow as play vehicles for Kindergarten populations. The child can go up or down or fall off, that's all. No dramatic play is involved, no constructive play is involved, the child's thinking is minimally enhanced, no impact on the equipment is made. Nothing is created.

The “jumpy horses” located in front of the metal Stagecoach is comparable to the seesaws. The primary play function is jumping up and down. Typically, they stand idle on well-equipped playgrounds where interesting choices are available. However, the condition of these apparatus is good and represent no physical threat to the children.

Replacement of existing large Sandbox with multiple smaller sandboxes.

Installation of Play System which adhere to the Age-Specific Activities as outlined in the preceeding pages. Specifically, that which
provides a stimulating setting for large motor activities, such as climbing, swing, and running. The overall play environment should be complex in terms of space, levels and ways to move among them...up, down, around, inside, under, on top and through.

Play area under and around swing and climbing equipment should be resilient and possibly bordered with wood ties.

The apparatus pictured on the playground plan is representative of the type system that facilitates the kindergarten population. However, there are alternative Play systems identified and listed under the category of Large Motor Activities K-3. Prices vary with different vendors.

Maintenance checks are recommended on a frequent basis.
1 Sandbox 12"x12"
2 Benches
3 Slide/Climber
   original location
4 Climbing apparatus
   original location
5 Stagecoach
   and bucky horses
6 Swinging & Slide
   original location
7 Bench
8 Swing
   original location
PLAYGROUND EQUIPMENT VENDORS

Playworld Systems, 315 Cherry Street, New Berlin, PA 17855
1-800-233-8404
TO: OUR VALUED CUSTOMERS

Please excuse the quality of this catalog. Due to a shortage, we are substituting.

Also, Pages 33 thru 46 should be titled "PLAYMAKERS" instead of "Q SERIES".

Thank you!

1985 Catalog of Park, School, Playground, Sports, Physical Fitness, Site Amenities & Preschool Equipment
MATERIALS:
TIMBER: 4" x 6" and 6" x 6" Pressure Treated Southern Pine or Heart F.O.H.C. Redwood.
PIPE: 1-5/16" O.D. galvanized.
SLIDE WITH 2' x 6' BEDWAY: Stainless steel backed with 5/8" exterior grade plywood.
8' SLIDE CHUTE with heavy gauge stainless steel backed with galvanized steel battens. Side rails are 14 gauge steel, hot dipped galvanized.

DIMENSIONS:
OVERALL HEIGHT: 7'
ALL PLATFORMS: 3' x 4'
PLATFORM HEIGHTS: 3' and 4'
WEIGHT IN PINE: 2,956 lbs
WEIGHT IN REDWOOD: 2,387 lbs

MATERIALS:
TIMBER: 6" x 6" and 4" x 5" Pressure Treated Southern Pine or Heart F.O.H.C. Redwood
PIPE: 1-5/16" O.D. galvanized
SLIDE: Stainless steel backed with exterior grade plywood

DIMENSIONS:
PLATFORM Hgt. 3' Lg. 4' Wdt 2-1/2'
SLIDE Hgt. 3' Lg. 6' Wdt 2'
SWING HEIGHT 6-1/2'
WEIGHT IN PINE: 1,612 lbs
WEIGHT IN REDWOOD: 1,284 lbs

TRIPLE'S CENTER
NOTE: Platform over Tire Swing is enclosed on both sides with hand rails.

TIRE SWING COMBO.....

GL-1119 (Treated Pine)
GL-1119/RD (Redwood)

MATERIALS:
TIMBER: 6" x 6" Pressure Treated Southern Pine or Heart F.O.H.C. Redwood
PIPE: 1-5/16" O.D. galvanized

DIMENSIONS:
HEIGHT: 3-1/2'
WIDTH: 2'
LENGTH: 10-1/2'
WEIGHT IN PINE: 253 lbs
WEIGHT IN REDWOOD: 201 lbs

WOOD PARALLEL BARS.....

DJ-7228 (Treated Pine)
DJ-7228/RD (Redwood)

MATERIALS:
TIMBER: 6" x 6" Pressure Treated Southern Pine or Heart F.O.H.C. Redwood
PIPE: 1-5/8" O.D. galvanized

DIMENSIONS:
HEIGHT: 3-1/2'
WIDTH: 2'
LENGTH: 10-1/2'
WEIGHT IN PINE: 253 lbs
WEIGHT IN REDWOOD: 201 lbs

PW-205/RD (Redwood)

The swinging beam gives an extra dimension to this balance developer. Double handrail makes it safe for kids of all ages.

MATERIALS:
SUPPORT POST: 6" x 6" nominal pressure treated Southern Pine or Heart F.O.H.C. Redwood
BALANCE BEAM: 4" x 6" nominal pressure treated Southern Pine or Heart F.O.H.C. Redwood
PIPE: 1-5/8" O.D. galvanized steel
CHAIN: 4/0 galvanized steel

DIMENSIONS:
WIDTH: 26'
BALANCE BEAM HEIGHT: 12'
OVERALL HEIGHT: 39'
WEIGHT IN PINE: 323 lbs
WEIGHT IN REDWOOD: 255 lbs
DIMENSIONS: 6'6" square x 11" deep
WEIGHT IN PINE 565 lbs
WEIGHT IN REDWOOD 445 lbs

DIMENSIONS: 12'6" square x 11" deep
WEIGHT IN PINE 1,094 lbs
WEIGHT IN REDWOOD 854 lbs

We recommend that all permanently installed playground equipment be surrounded by a soft resilient material in case of accidental falls.

MATERIALS:
Same as above

DIMENSIONS:
SLIDE 4' high x 8' long x 3' wide
SLIDING POLE HEIGHT 7
OVERALL HEIGHT 11
PLATFORM 4' high x 4'9" long x 3' wide
WEIGHT IN PINE 1,320 lbs
WEIGHT IN REDWOOD 1,096 lbs.
MATERIALS:
- 6" x 6" Pressure Treated Southern Pine or Heart F.O.H.C. Redwood
- 1-5/16" & 1-5/8" O.D. galvanized pipe
- Slides: chute of stainless steel, circular slide of tough polyethylene

DIMENSIONS:
- Overall height: 10.3
- Platforms: 3 x 4, 2.5 x 4, 3 x 6"
- Platform heights: 2', 3', 4', 6', 7', 8'
- Swing heights: 7.5'
- Horizontal ladder height: 6.9'
- Sliding pole height: 4'

WEIGHT: In pine: 6.370 lbs
WEIGHT: In redwood: 5.044 lbs

FOR YOUR DISTRIBUTOR
CALL TOLL FREE
1-800-233-8404
PW-240CR/RD (Redwood)

The PW-240 Lookout Center is available with the circular side substituted for the 12' long standard slide and attached to the 8' high platform. When ordering specify the PW-240CR or PW-240CR/RD Lookout Center with circular side.

See price list for weights of PW-240 and PW-240/RD.

12-Year Guarantee on Treated Wood.
Durability, attractiveness, and low maintenance are key elements of the Playworld park benches. Straight leg and angle benches are fabricated from 2-3/8 OD galvanized pipe, with a choice: pressure treated pine, anodized aluminum, or heart FOHC redwood planks. Available in six and eight foot lengths.

**O-8…8 in. Angle leg bench shown.**

**MATERIALS:**

- 6' Straight leg, 6' long x 2' wide, Weight 270 lbs.
- 8' Straight leg, 8' long x 2' wide, Weight 348 lbs.
- 6' Angle leg, 6' long x 2' wide, Weight 273 lbs.
- 8' Angle leg, 8' long x 2' wide, Weight 351 lbs.
- O-6/RD - 6' Straight leg, 6' long x 2' wide, Weight 234 lbs.
- O-8/RD - 8' Straight leg, 8' long x 2' wide, Weight 300 lbs.
- O1-6/RD - 6' Angle leg, 6' long x 2' wide, Weight 237 lbs.
- O1-8/RD - 8' Angle leg, 8' long x 2' wide, Weight 303 lbs.

- 6' Straight leg, 6' long x 2' wide, Weight 61 lbs.
- 8' Straight leg, 8' long x 2' wide, Weight 69 lbs.
- 6' Angle leg, 6' long x 2' wide, Weight 63 lbs.
- 8' Angle leg, 8' long x 2' wide, Weight 71 lbs.

**20-8…8 in. Straight leg bench shown.**

This stylish bench offers the ultimate in strength and durability in a permanent installation. Countertop seating provides comfortable seating. The legs are fabricated from 1-1/2" x 2" heavy-gauge rectangular tubing with 2" x 4" treated pine, or heart FOHC redwood slats.

- 6' long x 14" wide W1 172 lbs.
- 8' long x 14" wide W1 274 lbs.
- MODEL 1000-6/RD 6' long x 14" wide W1 148 lbs.
- MODEL 1000-8/RD 8' long x 14" wide W1 192 lbs.

**STYLEX II BENCH**
PLAYGROUND EQUIPMENT VENDORS

Vaughan & Associates, Inc., 1225 Round Table Drive, Dallas TX 75247
1-800-527-5876
1-214-631-1310
96015
19'0" x 29'0" Area
11'0" Ht.
6 x 6 Columns & Beams
4 x 6 Deck Members
4 x 4 Wall Members
Decks at 5', 7'
Rope Climbers
Ladder
Clatter Bridge
Ramp Walkway
Slide Pole
95008-10 Slide
95195 Spiral Slide

96016
29'6" x 44'6" Area
11'6" Ht.
6 x 6 Columns, 4 x 6 Deck Members
4 x 4 Wall Members
Decks at 3', 5', 6', 7', 8'
95008-16 Slide
95009-6 Slide
95195-6 Spiral Slide
Tire Swing
Ramp Walkway
Horizontal Ladder

96017
13'0" x 16'9" Area
10'0" Ht.
6 x 6 Columns & Beams
4 x 6 Deck Members
4 x 4 Wall Members
Deck at 5'
Tire Swing
Chinning Bar
Slide Pole
Chain Net
96008
29'0" x 32'3" Area
116' Ht.
6x6 Columns & Beams
4x6 Deck Members
4x4 Wall Members
Decks at 3'0", 5'0", 6'6" and 8'0"
Ramp Walkway
Tire Swing
Ladder
Chain Net
Slide Pole
95008-6 Slide
95008-16 Slide

96009
16'0" x 24'6" Area
100' Ht.
6x6 Columns & Beams
4x6 Deck Members
4x4 Wall Members
Decks at 3'0", 5'0", 6'6"
Two Seat Swing
Ladder
Wooden Arch Climber
Chinning Bar
Slide Pole
95008-14 Slide

96010
24'6" x 27'3" Area
10'0" Ht.
6x6 Columns & Beams
4x6 Deck Members
4x4 Wall Members
Decks at 3'0", 5'0", 6'6"
Horizontal Ladder
Ladder
Wooden Arch Climber
Slide Pole
Chinning Bar
95008-14 Slide
The square multi purpose play unit series was designed to create an exciting play environment utilizing maximum space to accommodate groups of children. All units shown on pages 40-44 adhere to safety standards, incorporating the following specifications. Safety bars, made from 1⅛” O.D. tube, are placed 30” above deck height at all slide locations. “C” shaped handrails are located at all openings where access ladders are located. All deck openings 4’ or above in height, that do not have an accessory attachment, have a wooden wall or tube rung enclosure, which is 3’0” above deck height. (Pictures may not always show all opening enclosures.)

Please call for additional information on this exciting series of play units.
96004

23'6" x 41'3" Area
11'6" Ht.
6x6 Columns & Beams
4x6 Deck Members
4x4 Wall Members
Decks at 5', 6', 8'0"
Rope Climbers
Ladder
Chain Net
Arch Climber
95008-10 Slide
95008-16 Slide

96005

16'0" x 16'0" Area
8'6" Ht.
6x6 Columns & Beams
4x6 Deck Members
4x4 Wall Members
Deck at 5'0"
Ladder
Slide Pole
Tire Swing
95008-10 Slide

96006

21'0" x 22'0" Area
8'6" Ht.
6x6 Columns & Beams
4x6 Deck Members
4x4 Wall Members
Decks at 3', 5', 30"
Two Seat Swing
Horizontal Ladder
Ladder
Slide Pole
95008-10 Slide

96007

21'0" x 24'9" Area
10'0" Ht.
6x6 Columns & Beams
4x6 Deck Members
4x4 Wall Members
Decks at 3', 5', 6'6"
Ramp Walkway
Tire Swing
Slide Poles
95009-6 Slide
95008-14 Slide
**10-3008**
23'3" x 3'10" Area
94100—2 Level Tower
94103—Two Seat Swing
95008-12 Slide
94116—Fireman's Pole

**10-3009**
4" x 6" & 6" x 6" Timbers
27'0" x 46'6" Area
94102 7 Level Tower
94120 4 Level Tower
94104 Tire Seat Swing
94108 Horiz. Ladder w/Rope Climber
94111 Chain Net
95001-6 Clatter Bridge
94116 Slide Pole
(2) 95008-10 Slide
95008-12 Slide

**10-3010**
22'6" x 31'6" Area
94102 7 Level Tower
94101 6 Level Tower
94103 Two Seat Swing
94116 Sliding Pole
95003-10 Walkway w/Handrails
95008-8 Slide
95008-16 Slide
95002 Spring Pad
95160 Barrel Roll
10-3004
347" x 271" Area
94101-6 Level Tower
94100-2 Level Tower
95003-10 Walkway w/Handrails
94103-Two Seat Swing
95009-8 Slide
95008-12 Slide
95160-Barrel Roll
93317-Climber
93325-Balance Beam

10-3005
27'11" x 17'8" Area
94101-6 Level Tower
94105-Tire Swing
94108-Horizontal Ladder
95008-12 Slide

10-3006
23'0" x 227" Area
94101-6 Level Tower
94108-Horizontal Ladder
94105-Tire Swing
94103-Two Seat Swing
95002-Spring Pad
95009-8 Slide
95160-Barrel Roll
93317-Climber
94110—See Saw
94116—Fireman's Pole

10-3007
25'0" x 17'1" Area
94101-6 Level Tower
95008-12 Slide
94103-Two Seat Swing
94116-Fireman's Pole
94107—Double Trapeze Swing
Play Towers

10-3000
38'10" x 22'11" Area
94102—7 Level Tower
95001-6 Clatter Bridge
94105—Tire Swing
94116—Fireman's Pole
94111—Chain Net
95009-12 Slide
95002—Spring Pad

10-3001
42'0" x 20'1" Area
94102—7 Level Tower
94101—6 Level Tower
94106—Tire Tunnel
94111—Chain Net
94104—Tire Seat Swing
95003-10 Walk Way w/Handrails
94116—Fireman's Pole
95008-10 Slide
95160—Barrel Roll
95002—Spring Pad

10-3002
42'8" x 24'0" Area
94102—7 Level Tower
94101—6 Level Tower
94100—2 Level Tower
94106—Tire Tunnel
94111—Chain Net
95003-10 Walk Way w/Handrails
95003-12 Walk Way w/Handrails
94116—Fireman's Pole
94115—Single Row Trapeze Swing
95008-12 Slide (not shown in photo)
94103—2 Seat Swing
94107—Double Trapeze Swing

10-3003
26'11" x 24'11" Area
94102—7 Level Tower
94103—2 Seat Swing
95001-6 Clatter Bridge
95160—Barrel Roll
93008—Climber
93420
8" x 8" Columns
6" x 6" Beams
6'6" x 32" Area
8' Ht.
Beams at 16", 30", 48", 60"

93430—Tire Tree with 6 Tires
6" x 6" x 7' Upright
Tires at 1' to 6' Heights

93630—Stepping Towers
13'10" x 210" Area
8' Ht.
6" x 6" Columns
4" x 6" Beams and Cross Members
2" x 6" Decking
Decks at 3', 4', 5', 6'
1¾" O.D. Galvanized Pipe Rungs and Sliding Poles
95008-10 Slide

93680
Tire Raft with Clusters
8' x 10' Area with six 6" x 6" cluster members at each corner, varying in heights of 6" to 36"

93685—Tire Raft
8' x 10" Area, 6" x 6" corner posts

93690—Arch Climber and Stepping Blocks
4'4" x 177" Area
7' Ht.
8" x 8" Columns
1¾" O.D. Galvanized Pipe Rungs
91016
4 x 6 & 6 x 6 Timbers
13'6" x 44'10" Area
9'0" Height
Decks at 4'0" & 6'0"
95009-12 Slide
Tire Swing Assembly
Slide Pole

(Designed for handicapped or disabled)

91017
4 x 6 & 6 x 6 Timbers
9'10" x 10'10" Area
6'10" Height
Tire Swing Assembly

93327
8 x 8 Timbers
8'10" x 8'10" Area
12'6" Height
10-1018
8 x 8 Timbers
20'0" x 38'0" Area
93514 Climber
91012 Climber
95030 Action Bridge
95008-10 Slide

10-1019
12 x 12 Timbers
17'8" x 20'3" Area
93309-12 Stepping Blocks
93320-12 Stepping Blocks
93322-12 Balance Beam
93324-12 Balance Beams
94109-12 Barrel Roll
95008-8 Slide
PLAYGROUND EQUIPMENT VENDORS

Game Time, Inc., P.O. Box 121, Fort Payne, AL 35967
1-205-845-5610
A. G2T2 CLIMBER

GameTime's answer to the outerspace robot world, this budget pleasing climber will provide young astronauts with an opportunity to reach other galaxies through the secret passage. Climber has a sliding pole for quick exit.

• Legs fabricated of 1½" O.D. galvanized pipe.
• Sliding pole of 1½" O.D. galvanized pipe.

NO. 837 G2T2 Climber, ground space 6'8" x 4'2", ht. 8'2", wt. 258 lbs.

B. GAMETIME'S BELL BuoYS U.S. Patent

Energetic young athletes can test their endurance and strengthen their muscles on these challenging Bell Buoys.

• 1½" O.D. galvanized pipe and main support pipe of 2½" O.D. pipe.
• The 30" diameter dome is finished with Powder Coat for resistance to ultra-violet rays and weather.
• Climbing pole is 13' high. Overall height 17'.
• Ground space 4' x 4' per single unit.

NO. 4000 Bell Buoy, one unit, red and white, wt. 243 lbs.

C. SNAIL U.S. Patent

The unique design of this colorful climber provides maximum play value in minimum space. Feeler caps are DuraStress, bolts are shielded.

• Climber constructed of 1½" O.D. galvanized pipe.
• Rungs are 1" O.D. galvanized pipe.

NO. 6728 Snail, ground space 22" x 11', ht. 7', wt. 231 lbs.
WOOD OBSTACLE COURSE
Patented

The perfect fitness training program for active youngsters, the Wood Obstacle Course is available in round or dimensional pressure-treated wood, or in redwood. The course features GameTime’s unique, durable stainless steel fastening system. The nine station course is the perfect challenge for schools and limited space availability. All equipment is designed to develop coordination, strengthen muscles, and provide opportunities for increasing strength and agility. All wood is delivered unstained for natural appearance.

Wood Obstacle Course, nine stations
NO. 5739 Pressure-Treated Round Wood, wt. 4115 lbs.
NO. 6739 Pressure-Treated Dimensional Wood, wt. 4949 lbs.
NO. R6739 Redwood, wt. 3528 lbs.

1. Wood and Arch Climber, ground space 7’6” x 11’6”, ht. 7’6”. NO. 5740 Pressure-Treated Round Wood, wt. 518 lbs. NO. 6740 Pressure-Treated Dimensional Wood, wt. 438 lbs. NO. R6740 Redwood, wt. 356 lbs.

2. Log Wall, ground space 1’6” x 7’6”, ht. 7’6”. NO. 5732 Pressure-Treated Round Wood, wt. 625 lbs. NO. 6732 Pressure-Treated Dimensional Wood, wt. 461 lbs. NO. R6732 Redwood, wt. 367 lbs.

3. Chain Net Climber, ground space 1’6” x 8’6”, ht. 8’6”. NO. 5727 Pressure-Treated Round Wood, wt. 494 lbs. NO. 6727 Pressure-Treated Dimensional Wood, wt. 556 lbs. NO. R6727 Redwood, wt. 404 lbs.

4. 3-Level Balance Beam, ground space 12’ x 24’. NO. 6722 Pressure-Treated Dimensional Wood, wt. 323 lbs. NO. R6722 Redwood, wt. 255 lbs. Available in single units.


7. Climbing Pole, ground space 1’ x 7’6”, ht. 12’6”. NO. 5741 Pressure-Treated Dimensional Wood, wt. 459 lbs. NO. R5741 Redwood, wt. 318 lbs.

8. Horizontal Ladder, ground space 4’6” x 7’6”, ht. 7’6”. NO. 5710 Pressure-Treated Round Wood, wt. 507 lbs. NO. 6710 Pressure-Treated Dimensional Wood, wt. 603 lbs. NO. R6710 Redwood, wt. 429 lbs.

9. Parallel Bars, ground space 3’ x 9’6”, ht. 4’. NO. 5728 Pressure-Treated Round Wood, wt. 236 lbs. NO. 6749 Pressure-Treated Dimensional Wood, wt. 274 lbs. NO. R6749 Redwood, wt. 204 lbs.


13. Tire Trot, ground space 4'6" x 9'. No. 5688 Tire Trot, wt. 166 lbs.


EXER-TRAC™

A comprehensive exercise program to increase muscular strength, endurance, flexibility, cardiovascular endurance and body composition. The program, designed to be used alone or in conjunction with a jogging trail, provides a graded series of exercises for all levels of participant capabilities. The signs which accompany the exercise stations, give detailed instructions for different fitness levels. The time limits at each skill level eliminate the problem of overtaxing muscles, while providing all the necessary activity to increase fitness levels.

The Exer-Trac program was developed by Dr. Charles Kuntzleman, well known for his television fitness series, and author of over 30 books on fitness, health and nutrition. For full details on Exer-Trac exercise program, see your GameTime sales representative. Exer-Trac is available in round or dimensional pressure-treated wood, with a 10 year warranty, redwood or in combination with cool-to-the touch, rustproof Durascape aluminum, powder coated. You can order the entire trail or select stations to fit your space requirements. Each station has a sign explaining the exercise and its time sequence.

Exer-Trac Field Course

Includes all the exercise stations plus signs.

NO. 7675 Round Wood, wt. 6818 lbs.
NO. 7676 Dimensional Wood, wt. 7530 lbs.
NO. R7676 Redwood, wt. 5470 lbs.

For complete information on Durascape fitness pieces, see your GameTime sales representative.

EXER-TRAC SIGNS

Sturdy 3” x 3” redwood frames, plexiglass sign, with silk screen description of activity.

NO. DESCRIPTION

6399 Start Sign
6397 Warm-up Sign
6388 Leg Stretch, Vault Bar
6392 3-Level Balance Beam
6387 Stump Walk
6393 Parallel Bars
6360 Mountain Climber
6382 3-Way Chin Bar
6384 Sit-up Station
6385 Horizontal Ring Ladder
6386 Push-up Log
6381 Three-Log Hop
6395 Trapeze Swing
6396 Tic-Tot
6391 Horizontal Ladder
6390 Inclined Wall
6394 Climbing Pole
6398 Cool-down Sign

Signs must be ordered separately. All wood is delivered unstained for natural appearance.

NEW!

1. Leg Stretch/Vault Bar, ground space 1’ x 7’6”. NO. 5683 Round Wood, wt. 166 lbs. NO. 6683 Dimensional Wood, wt. 200 lbs. NO. R6683 Redwood, wt. 138 lbs. NO. 6683 Durascope aluminum, wt. 49 lbs.

2. Inclined Ring Climber, ground space 4’8” x 9’, ht. 10’ NO. 5689 Round Wood, wt. 803 lbs. NO. 6689 Dimensional Wood, wt. 921 lbs. NO. R6689 Redwood, wt. 658 lbs.

3. 3-Level Balance Beam, ground space 12’ x 24’. NO. 6722 Dimensional Wood, wt. 323 lbs. NO. R6722 Redwood, wt. 255 lbs. Available in single units.


5. Parallel Bars, ground space 3’ x 9’6”. NO. 5728 Round Wood, wt. 236 lbs. NO. 6749 Dimensional Wood, wt. 274 lbs. NO. R6749 Redwood, wt. 204 lbs. NO. 6849 Durascape aluminum, wt. 107 lbs.

LOG "C" MODULES U.S. Patent
A revolutionary idea in round or dimensional wood climbers. These climbers, ranging from the single tunnel section to the double-humped roller coaster version, offer unlimited design flexibility.

E. NO. 5655 "C" MODULE
- Two galvanized steel climbing poles, four rubber tires.
- Wood logs are chamfered and surfaced on all sides.
Ground space 6' x 23'6", ht. 7' 6", wt. 1677 lbs.

F. NO. 5651 "C" MODULE, ground space 6' x 15", ht. 7'6", wt. 942 lbs.

G. NO. 5653 "C" MODULE, single tunnel, ground space 3'6" x 7'11", ht. 4', wt. 436 lbs.

H. HUCK FINN RAFT U.S. Patent
Man the tillers and we'll go rafting down the Mississippi following the adventures of Huck Finn. Crew members can simulate the river's motions on the spring platform. For the passengers there is shelter aplenty in the log cabin.
NO. 5721 Huck Finn Raft, ground space 4' x 6', ht. 4'6", wt. 545 lbs.

I. TRICKY TIRE RAFT
One child or a whole bunch of kids can play on this floating raft of interconnected tires. Unpredictable movements ripple through the raft and kids can vary the action with their own movements. Designed for maximum fun. Tricky Tire Raft won't touch the ground even with its low-to-the-ground profile.
NO. 5789 Tricky Tire Raft, group space 12' triangle, ht. 4'6", wt. 563 lbs.

J. CLIFFHANGER BRIDGE
The Cliffhanger Bridge can span real or imaginary chasms to give children an exciting and unpredictable swinging bridge crossing. Three connected hanging logs offer good footing while handrails are positioned for security and convenience.
- Galvanized 4/0 welded straight link chain provides exceptional strength.
NO. 5783 Cliffhanger Bridge, ground space 4'6" x 16', ht. 5', wt. 1090 lbs.
C. NO. 5796 WOOD CLIMBER
This is GameTime’s most compact swing climber combination. It offers a climbing pole with arch, climbing tire, a log stepping cluster and the popular tire swing. The fort-like cubbyhole under the deck allows for a quiet retreat or a place to let imaginations carry young minds to faraway places. This wood swing climber has a lot of play value for its size.
- Climbing poles fabricated from 1½" O.D. galvanized pipe
- New stainless steel fastening system

NO. 5796 Wood Climber, ground space 7' x 21½', ht 8½', wt 1555 lbs

D. NO. 5797 WOOD CLIMBER
Another GameTime climber built to provide young minds with an infinite number of recreational activities. The slanted climbing ladder connects the lower stepping log area to the deck where a 3' wide slide is located. A tire climber and tire swing add to the fun to create an action-packed, free-flowing climber with a natural look that would enhance any play area.
- Durable rubber tires and galvanized 4/0 welded straight link chain
- New stainless steel fastening system

NO. 5797 Wood Climber, ground space 20' x 22', ht 7½', wt 3209 lbs
SHERWOOD SERIES CLIMBERS

A. NO. 5795 WOOD CLIMBER
This unit offers an array of swinging, sliding and climbing opportunities. The sequence of activity as the child negotiates the different levels is forever changing as he finds new paths to the slide. The top two levels provide shaded areas for a child to watch the activity around him.
- Sturdy galvanized chain for durable and long life.
- Dimensional wood parts chamfered and surfaced on four sides.
- New stainless steel fastening system

NO. 5795 Wood Climber, ground space 17½' x 22½', ht. 8', wt. 2463 lbs.

B. NO. 5794 WOOD CLIMBER
Kids can balance, jump and climb over and under rungs, logs and tires. Easy accessibility from all sides lets them choose where and how they get on and off. Its small size allows placement in areas where most wood climbers would not fit.
- Rungs of galvanized steel.
- New stainless steel fastening system

NO. 5794 Wood Climber, ground space 7' x 10', ht. 7½', wt. 1410 lbs.

GameTime's 10 year warranty covers all pressure-treated wood products.
PLAYGROUND EQUIPMENT VENDORS

General Recreation Corporation, 2601 S. Hood, Tacoma, WA 98409
1-800-426-9788 1-206-572-7611
Popular across the country, this castle-like structure with playspaces on three levels is a good structure for socializing and fantasy play. The dramatic play and climbing opportunities are complemented by a Slidepole and an extra long Tireswing.

3 Decks
3 Solid Log Walls
Tireswing
Arched Tireswing Catwalk
2 Panels
Slidepole
PR-15  The PR-15 is a small climber with a strong visual appearance. Kids like the climbing and the cubbyhole created by the "log loops."

Deck
BigWheel
4 Climbing Tires
Log Arch

* symbol indicates equipment that encourages access by individuals with disabilities.
The PR-47 is a spread-out "traversing" style structure designed and scaled to challenge older kids and teenagers. Many physical education activities are encouraged with the extended Horizontal Ladder, Chinning Bars, Parallel Bars and Trapeze Rings.

3 Decks
Slidepole
Climbing Tire
Tirenet (6)
Turning Bar
Chinning Bar
Horizontal Ladder
Trapeze Rings
Parallel Bars
Inclined Ladder
6 Balance Logs
Log/Chain Climb
3 Step Tires
PR-22 This big, economical structure covers a lot of ground and entertains lots of kids. It's versatile too; we can adapt it to your space and needs. Kids can go all the way around it—across the Chain Walk, up on the deck, over the Tire Arch, and across the balance section without ever touching the ground. Follow the leader takes on new dimensions on the BigToys PR-22.

2 Decks
Solid Log Wall
Inclined Tunnel
Slidepole
2 Climbing Tires
Turning Bar
Chainwalk
Tire Arch
3 Balance Logs
4 Step Tires
The PR-50 is a large traversing structure that provides many activities for a wide range of children. For younger kids, there is a fort section for quiet play and hiding, and an Inclined Tunnel. Older kids are provided with a Slidechute and Slidepole. The two sections are connected by a series of Balance Logs, a Horizontal Ladder and an angled Polynet. Able to accommodate many children, the PR-50 provides lots of play value and variety.

- 2 Decks
- 4 Solid Log Walls
- Tireswing
- 3' x 12' Slidechute
- 2 Panels
- Inclined Tunnel
- Slidepole
- BigWheel
- 9 x 9 Polynet
- Horizontal Ladder
- 4 Balance Logs
Kids love crossing an unsteady bridge, lying in a hammock or rocking in a lawn swing. It's fun to be suspended above ground by moving, flexible elements and that is an exciting characteristic of the BigToys PR-18 structure.

Our unique combination of chain, pipe and wood elements create a truly novel play environment. Children are encouraged to interact because the activity that is fun alone becomes even more fun as each child sends a new vibration through the system. While fostering interactive play, the PR-18 helps children to improve their coordination, balance and upper body strength.

The PR-18 will fit easily into your playground plans. It can be integrated with other BigToys play structures or positioned as a free standing unit.

Considering the large number of children it will accommodate and the play options it includes, the PR-18 will be a valuable addition to your playground.

Log/Chain Climb
3 Pipe/Chain Climbs
Log Arch
PR-37* A popular structure, the PR-37 has incorporated some favorite activities. Lots of climbing is available along with a Slidechute, Tireswing and Angled Polynet. Also included is a lower deck, enclosed for quiet play.

2 Decks
3 Solid Log Walls
Tireswing
Tireswing Catwalk
3' x 12' Slidechute
Panel
Sledpole
BigWheel
2 Climbing Tires
9 x 9 Polynet

* symbol indicates equipment that encourages access by children with varying degrees of disability
PR-68

This dramatic, focal point structure is a multi-dimensional and multi-functional climber. The compact and condensed deck system accesses activities in every direction, including the Trackride, Spiralslide, Slidechute and Tireswing. The complexity of this structure will hold the children's interest and keep them coming back.

- 5 Decks
- 3 Solid Log Walls
- Tireswing
- 3’ x 10’ Slidechute
- Panel
- Inclined Tunnel
- Slidepole
- 3 Climbing Tires
- 2 Tirenets (4)
- Tirenets (6)
- Inclined Ladder
- Trackride
- Spiral Slide
This design focuses on basic movement skills. With the aid of handholds and handrails there is a particular emphasis on walking with six different types of stepping surfaces ranging from a simple Ramp to a Log Chain Climb. The rear section of the SB-501, which includes the Clatterbridge, Log Chain Climb, Banisterslide and Log Access Ramp, can be added as a second phase. The "Adapted Banisterslide" is equipped with handrails on both sides for security.

As with all Schoolyard play structures the decks are made with flattened logs. These provide just the right balance between security and challenge. The goal of this design is to present kids with experiences which are different from the everyday, but not so demanding that they will be reluctant to use the equipment. Certainly, the children's initial encounter may be somewhat hesitant, but with familiarity they will move confidently on to new challenges.

| 4 Decks | Banisterslide | 3 Turning Bars |
| 3 Access Ramps | 3 Bigwheels | Clatterbridge |
| 4' x 10' Slidechute | Tirenet (4) | Log/Chain Climb |
| Inclined Tunnel | 9 x 9 Polynet | 6 Stairsteps |
**SB-18** Climbing Wall: This is a great upper body, arm and hand builder. Kids think the object is to get to the top, but the *Use Manual* includes many very difficult maneuvers which are done on the face of the wall.

**SB-20** Turning Bars: An old favorite. Popular because they allow so many different challenges.

**SB-21** Stretch Bars: This is a traditional gymnastic event and is one of the few pieces of equipment which helps develop extension and flexibility as well as strength.
**SB P.E. Events**

These structures are designed to complement your physical education program. The Schoolyard BigToys Use Manual provides instructions for each unit. Whether your teachers emphasize creative movement or sports readiness, there are activities which will enhance their instruction.

The units will contribute to the overall physical development of the child: upper torso strength, motor sequencing ability, balance, gross motor coordination and flexibility. The many different structures not only provide different functions, but also offer many levels of challenge.

P.E. Events demand a high degree of strength and skill. Correct and safe use requires instruction and close supervision. A complete schoolyard would include activities for all ages and skill levels, and be effective in instructional and free play periods.

**SB-12** Horizontal Ladder. Two features make this design unique. First, it's over five feet wide so lots of kids can use it at one time. Second, because it gets higher in the middle it requires more upper body strength than most ladder traverses.

**SB-17** Parallel Bars: Another gymnastic event that's stood the test of time. Great arm and shoulder strength builder.
SB-9 abcss* This is essentially a smaller version of the SB-1ss with similar schoolyard features. It is designed in three stand-alone units for maximum site and budget flexibility. It retains the essential stations for the HangUps curriculum. But it is smaller and has fewer connecting decks so it holds fewer children than the SB-1ss.

The units can be located next to each other to create linkages and good traffic flow throughout the total structure.

As shown in the drawing, the Horizontal Ladder/Ring section (SB-9c) can be fitted with one (SB-9cs) or two Tireswings (SB-9css, as shown in photograph). HangUps are free and available upon request.

<table>
<thead>
<tr>
<th>SB-9a</th>
<th>SB-9b</th>
<th>SB-9css</th>
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<tbody>
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<td>4 Decks</td>
<td>2 Decks</td>
<td>2 Decks</td>
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<tr>
<td>4' x 10' Slidechute</td>
<td>Turning Bar</td>
<td>2 Tireswings</td>
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<td>2 Panels</td>
<td>Chainwalk</td>
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<td>Inclined Tunnel</td>
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<tr>
<td>Slidepole</td>
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<tr>
<td>Banisterslide</td>
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<tr>
<td>BigWheel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Climbing Tires</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tirenet (9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inclined Ladder</td>
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</tbody>
</table>

* symbol indicates equipment that encourages access by children with varying degrees of disability.
Popular for kindergarten playgrounds, the SB-6 also stretches the minds of first, second, and third graders. It offers a wide variety of activities including several neat dramatic play areas, complete with BigWheels and many good motor challenges. The center attraction is the Wide Slide. To get to the Slide, the kids climb the Tire Net, cross the Bridge or crawl through a Tunnel. The Tire Swing has been incorporated into the new version of the SB-6 to encourage group play. The SB-6, seen from the eyes of a child, is a whole world of exploration.

<table>
<thead>
<tr>
<th>SB-6*</th>
<th>7 Decks</th>
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<tr>
<td></td>
<td>Solid Log Wall</td>
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<td>Tireswing</td>
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<td>3' x 10' Slidechute</td>
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<td>Panel/Tunnel Crawl</td>
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<td>Inclined Tunnel</td>
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<td>Slidpole</td>
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<td>Banisterslide</td>
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<tr>
<td></td>
<td>2 BigWheels</td>
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<td>2 Climbing Tires</td>
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<tr>
<td></td>
<td>Tire Tree (7)</td>
</tr>
<tr>
<td></td>
<td>Tirenets (4)</td>
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<td></td>
<td>Turning Bar</td>
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<td></td>
<td>Horizontal Ladder</td>
</tr>
<tr>
<td></td>
<td>Clatterbridge</td>
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</table>

* symbol indicates equipment that encourages access by children with varying degrees of disability.
SB-7abc* This structure is appropriate for young children 3 to 6 years old. The units are very low with the highest deck a mere three feet above the ground cover. The play events, while limited, will challenge children up to five to six years old.

The total play structure consists of three separate parts. This allows a great deal of flexibility in arranging the units to fit your space. Another feature of the SB-7abc is that the individual units can be purchased separately and can also be connected to other Schoolyard BigToys expanding the age range for those structures.

Two additions have been made to the SB-7b. A play space under the high deck and an Inclined Tunnel. The tunnel is at a very slight angle, so it is more of a crawl-through than a sliding activity.

SB-7a
2 Decks
3' x 6' Slidechute
2 Panels
BigWheel

SB-7b
2 Decks
Panel
Inclined Tunnel
BigWheel
Tire Tree (5)

SB-7c
Climbing Tire
Beltbridge
An old standby, the SB-2 has been renamed the SB-2a. The newly designed SB-2b complements it.

Designed for smaller sites, the SB-2a (on right side in photograph) is very economical. It provides a good play environment for early elementary age kids.

The SB-2b (on left side in photograph) is a fantasy play piece intermixed with a number of crawling and hiding spaces. This new structure can be installed as one unit or retrofitted to SB-2 structures.

SB-2a
3 Decks
3' × 11' Slidechute
2 Panels
Inclined Tunnel
Slidepole
BigWheel
Tirenet (4)

SB-2b
4 Decks
2 Panel/Tunnel Crawls
Suspended Tunnel
Banisterslide
BigWheel
3 Climbing Tires
The Panel Tunnel Crawl PS-21 encourages fantasy play and imagination. It accepts later additions easily.

The most economical small structure is the PS-18, consisting of an Inclined Tunnel, Play Panel and BigWheel. It is a good starter unit that easily accepts additions.

Moving Tunnels: "They wiggle. They jiggle. They make us all giggle." (Preschooler’s poem) Not only do they move, which the kids love, but the set of four Moving Tunnels is mounted on tires to keep them clean and dry.
This new design is the largest preschool structure. The low progressive steps and ramps provide the youngest child easy access to the deck levels. The ground level features a built-in sandbox and enclosed cubby hole area to encourage imagination and quiet play. The PS-16 features Baby Bucket swing seats and a Wide Slide for safe and fun preschool play.

- 5 Decks
- Access Ramp
- 3 Solid Log Walls
- 2 Chair TO/FRO
- 3' x 6' Slidechute
- Panel/Tunnel Crawl
- Inclined Tunnel
- 2 BigWheels
- Tirenet (4)
- Turning Bar
- Parallel Bar
- Sandbox

* symbol indicates equipment that encourages access by children with varying degrees of disability.
Socializing and imagination are encouraged with the abundance of deck area that the PS-11 provides. A good variety of activities are available for preschoolers with the Access Ramp, Swing and Slidechute.

PS-14: This economical structure is scaled down to fit a compact area. It is equipped with the popular Tireswing and Inclined Tunnel activities. With an Access Ramp, this structure provides easy accessibility for very small children.

Deck
Access Ramp
Tireswing
Inclined Tunnel
Tirenet (4)

PS-11:

Socializing and imagination are encouraged with the abundance of deck area that the PS-11 provides. A good variety of activities are available for preschoolers with the Access Ramp, Swing and Slidechute.

2 Decks
Access Ramp
Tireswing
1'6" x 7'6" Slidechute
BigWheel
5 x 5 Polynet
PS-12 ab* PS-12a and PS-12b can be installed as one large structure or as two independent structures. With good traffic patterns and a wide variety of activities, many children can be accommodated at one time.

5 Decks
Tireswing
1'6" x 7'6" Slidechute
Panel/Tunnel Crawl
BigWheel
Climbing Tire
Tirennet (4)
Horizontal Ladder

* symbol indicates equipment that encourages access by children with varying degrees of disability.
PLAYGROUND EQUIPMENT VENDORS

Howell Playground Equipment, 1710 E. Fairchild Street, Danville, ILL. 61832
1-217-442-0482
Basic Wood Module
This new wood module is designed for a maximum amount of diversified play while using only 7' x 13' of ground space. Non-toxic treated no. 1 southern pine using 6" x 6" and 4" x 4" dimension lumber that will not cause splinters like many peeler-core round-log climbers. All pieces are pre-cut and pre-drilled for easy installation. All pipe and hardware are galvanized for many years of low maintenance. The new design of fireman's pole is the safest on the market today. Available with either arch climber or stainless steel slide. Platform height of 5' for children of all ages.

HOW-925 Basic Wood Module with fireman's pole and arch climber, 935 lbs $847.00
HOW-925S Basic Wood Module with fireman's pole and stainless steel slide, 1025 lbs $1099.00

Wood-Play Combination
Wood-play combination with four positions of play plus three ladders. Two swings, trapeze bar, and gym rings are attached to top beam with extra-heavy-duty 3/4" welded chain. Non-toxic treated wood components, stained walnut color. Guaranteed for twenty years against termite damage and decay. Easy assembly using only hand tools. Does not require cement footings. Designed for ages 4-12.

HOW-930 Wood-Play Combinations, 195 lbs $376.00

Double Wood Module
This wood module is twice the size of the basic module covering 7' x 18' of ground space, but like the basic it uses non-toxic treated no. 1 stadium grade southern pine dimension lumber. All pieces are pre-cut and pre-drilled for easy installation. The module will accommodate all ages of children with a platform height of 5'. Available with either arch climber or stainless steel slide.

HOW-950 Double Wood Module with fireman's pole and arch climber, 1455 lbs $1270.00
HOW-950S Double Wood Module with fireman's pole and stainless steel slide, 1575 lbs $1525.00

Full Wood Module
This module is designed for a maximum number of children, all busy at one time enjoying basic elements of play, motion, novelty, and challenge. The structure is 10' x 10' with a 12' long stainless steel slide and a full size safety-designed fireman's pole, plus galvanized steel ring climbers on each open side. All wood timbers are dressed lumber to minimize exposure to splinters. The timbers are 6" x 6" southern pine CCA pressure treated to provide permanent non-toxic protection. Meets federal specification TT-W-550. All metal parts, pipe side rails, and hardware are galvanized for permanent weather exposure.

HOW-975 Full Wood Module with fireman's pole and stainless steel slide, 2335 lbs $2310.00

Lunar Climber
A geodesic climber designed for ages 2-6 accommodating several children of varying sizes at one time. Thermoplastic-acrylic coated 1" (outside diameter) galvanized pipe, with child-safe "freefall" design. All bolted assembly, easy to install. Base diameter: 8', height: 4'.

HOW-1221 Lunar Climber, 210 lbs $307.00

Super Lunar Climber
Same as above but larger. Designed for ages 7-adult with crossbars placed at various levels to challenge a wide age range. Large 17" base diameter, 6' high.

HOW-1222 Super Lunar Climber, 425 lbs $734.00

All products f.o.b., factory
A soft, resilient surface should be placed around base to cushion
PLAYGROUND EQUIPMENT VENDORS

Miracle Recreation Equipment Co., P.O. Box 275, Iowa 50112
1-515-236-7536
Natureville X

This tri-deck Natureville X features three 48" x 59" deck areas at heights of 3', 5' and 6'6" above the play surface. The deck platforms are supported by eight 6 x 6 redwood support posts and nine horizontal rungs.

Play attachments to the 3' deck include a wide step assembly, a cargo net and a 3' wide stainless steel ski slide. Climbing rungs and handholds provide access from the 3' deck to the 5' level.

The 5' deck play components are a climbing pole and Miracle's patented "L" slide. The "L" slide is a completely enclosed sliding tube constructed of stainless steel and fiberglass sections that give any youngster a unique sliding thrill.

The 6'6" level rounds out the play activities with an attractive redwood wall enclosure, an all galvanized curved climber with safety handholds and a fun and safe 12' wave slide with safety canopy. A safe and functional play package to meet the play needs of various age groups.

Model: #144-570
Actual Ground Space: 16' x 28'
Protective Area: 29' x 41'
Shipping Weight: 2349 lbs.

Natureville XI

A redwood and steel two level deck play complex designed for young children and limited financial budgets. The Natureville XI blends the traditional with the contemporary concept of play.

Physical activity is stressed by the challenging horizontal ladder at the 3' level, with a sliding pole and chain ladder attachments at the 5' level.

A wide step assembly provides a safe entry and exit for the smaller children at the 3' level, which also contains a redwood wall enclosure and a vertical rung ladder to the 5' level.

A 10' straight stainless steel slide exits from the 5' deck to round out the play accessories.

Model: #144-569
Actual Ground Space: 18' x 20'
Protective Area: 30' x 32'
Shipping Weight: 1930 lbs.
Natureville VI
The Natureville VI is a 4-deck system that has 3 sliding stations and 4 climbing stations. The tire swing rounds out the VI and makes it a complete playground for a compact area.
Model: #144-565
Actual Ground Space: 33'0" x 29'8"
Protective Area: 47' x 42'
Shipping Weight: 3702 lbs.

Natureville VII
The Natureville VII is a 4-deck system with Miracle's original Tornado Slide and an array of play areas all combined in a single unit. Other accessories and components are available. See page 75 or call your Miracle sales representative for details.
Model: #144-562
Actual Ground Space: 31' x 26'
Protective Area: 43' x 40'
Shipping Weight: 4033 lbs.
**Heavy-Duty Bench Frame**

Use your own wood to build your own pc benches with Miracle's Heavy-Duty Bench Frame. Your choice of permanent or portable design with 2" x 4" galvanized steel pipe.

---

**Heavy Duty Redwood Bench**

This classic bench with its comfortable back is a must in your park. It is made of 2" x 8" redwood attached to a Perma-Guard steel finish frame.

**Bench Details:**

<table>
<thead>
<tr>
<th>Model #</th>
<th>Description</th>
<th>Leg Finish</th>
<th>Leg Style</th>
<th>Length</th>
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**Wooden Slat Park Bench**

This attractive, economical wooden slat bench blends beautifully into any rustic setting. The 2" x 4" pressure treated southern yellow pine slats are edged and pre-drilled for easy installation. The legs are made of heavy 2 1/4 O.D. galvanized pipe and come in portable or permanent models.

**Perma-Glass Park Bench**

This attractive park bench is constructed of heavy-duty pressure molded Perma-Glass that is coated with TEDLAR for years of maintenance-free beauty. Legs are 2 1/4 O.D. galvanized steel pipe for resistance to rust, corrosion and weather. Legs are available both permanent and portable styles. See color chart for Perma-Glass choices.
Miracle introduces a variety of new choices in table seating for your park areas. Now available are Miracle's new rectangular and square, single pedestal tables with attached seating. The rectangular table tops measure 30" wide by 72" long and the square tops measure 40" x 40". Attached seating can be ordered with or without backs and the square tables have the option of seats on two or four sides.

**Square Redwood Tables**

These tables combine the beauty of redwood and durability of steel to give years of maintenance free service. The 40" square table top and 40" long seat planks feature 4 x 4 construction heart, free of heart center, redwood members. (Model #1301 pictured)

All models incorporate a strong, ready to install 4 x 4 steel tube main frame with channel and angle iron supports. The connecting seat support arms are fabricated in the same manner. On models with seat backs, 1/4" flat steel supports are added to the configuration.

All metal components are finished in Miracle's brown powdercoating, which accentuates the rustic design of the tables. Choose from two or four seat models with backs or without backs to meet your specific need.

**Rectangular Redwood Tables**

Constructed and finished like its square counterpart models. The rectangular 4 x 4 redwood table top measures 30" wide by 72" long. Attached seating can be ordered with or without backs.

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**Details**

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PLAYGROUND EQUIPMENT VENDORS

*Childrens Playgrounds Inc.*, P.O. Box 1563, Cambridge, MASS 02238
1-617-497-1588
WOODEN BENCH WITHOUT BACKREST, 8' LONG 903

PICNIC TABLE 3' x 5' 901

WOODEN BENCH WITH BACKREST, 8' LONG 902

SLIDES

DOWNHILL TUNNEL SLIDE WITH MOLDED SAFETY EXTENSION 450
STARTING PLATFORM WITH UPRIGHTS, 14' SLIDE WITH WOODEN FRAMING AND SAFETY EXTENSION
THE TUNNEL IS MADE OF TRANSLUCENT 7/16" THICK ORANGE POLYETHYLENE.

6' PLASTIC SLIDE 460
(FOR 3'6" HIGH PLATFORM)
ELASTOCRETE LANDING PAD (40" x 40")
(ELASTOCRETE IS A RESILIENT WATERPERMEABLE RUBBER SAFETY SURFACE).

4' x 8' STAINLESS STEEL SLIDE ON WOOD FRAME 470
PLEASE INQUIRE ABOUT DIFFERENT SIZES

6' PLASTIC SLIDE/6' TUNNEL SLIDE WITH SAFETY EXTENSIONS
PLASTIC AND TUNNEL SLIDES ARE AVAILABLE IN ANY LENGTH AND COMBINATION.

6' PLASTIC SLIDE 460
(FOR 3'6" HIGH PLATFORM)
ELASTOCRETE LANDING PAD (40" x 40")
(ELASTOCRETE IS A RESILIENT WATERPERMEABLE RUBBER SAFETY SURFACE).

SLIDES

DOWNHILL TUNNEL SLIDE WITH MOLDED SAFETY EXTENSION 450
STARTING PLATFORM WITH UPRIGHTS, 14' SLIDE WITH WOODEN FRAMING AND SAFETY EXTENSION
THE TUNNEL IS MADE OF TRANSLUCENT 7/16" THICK ORANGE POLYETHYLENE.

6' PLASTIC SLIDE 460
(FOR 3'6" HIGH PLATFORM)
ELASTOCRETE LANDING PAD (40" x 40")
(ELASTOCRETE IS A RESILIENT WATERPERMEABLE RUBBER SAFETY SURFACE).

4' x 8' STAINLESS STEEL SLIDE ON WOOD FRAME 470
PLEASE INQUIRE ABOUT DIFFERENT SIZES

6' PLASTIC SLIDE/6' TUNNEL SLIDE WITH SAFETY EXTENSIONS
PLASTIC AND TUNNEL SLIDES ARE AVAILABLE IN ANY LENGTH AND COMBINATION.

SLIDES

DOWNHILL TUNNEL SLIDE WITH MOLDED SAFETY EXTENSION 450
STARTING PLATFORM WITH UPRIGHTS, 14' SLIDE WITH WOODEN FRAMING AND SAFETY EXTENSION
THE TUNNEL IS MADE OF TRANSLUCENT 7/16" THICK ORANGE POLYETHYLENE.

6' PLASTIC SLIDE 460
(FOR 3'6" HIGH PLATFORM)
ELASTOCRETE LANDING PAD (40" x 40")
(ELASTOCRETE IS A RESILIENT WATERPERMEABLE RUBBER SAFETY SURFACE).

4' x 8' STAINLESS STEEL SLIDE ON WOOD FRAME 470
PLEASE INQUIRE ABOUT DIFFERENT SIZES

6' PLASTIC SLIDE/6' TUNNEL SLIDE WITH SAFETY EXTENSIONS
PLASTIC AND TUNNEL SLIDES ARE AVAILABLE IN ANY LENGTH AND COMBINATION.

SLIDES

DOWNHILL TUNNEL SLIDE WITH MOLDED SAFETY EXTENSION 450
STARTING PLATFORM WITH UPRIGHTS, 14' SLIDE WITH WOODEN FRAMING AND SAFETY EXTENSION
THE TUNNEL IS MADE OF TRANSLUCENT 7/16" THICK ORANGE POLYETHYLENE.

6' PLASTIC SLIDE 460
(FOR 3'6" HIGH PLATFORM)
ELASTOCRETE LANDING PAD (40" x 40")
(ELASTOCRETE IS A RESILIENT WATERPERMEABLE RUBBER SAFETY SURFACE).

4' x 8' STAINLESS STEEL SLIDE ON WOOD FRAME 470
PLEASE INQUIRE ABOUT DIFFERENT SIZES

6' PLASTIC SLIDE/6' TUNNEL SLIDE WITH SAFETY EXTENSIONS
PLASTIC AND TUNNEL SLIDES ARE AVAILABLE IN ANY LENGTH AND COMBINATION.

SLIDES

DOWNHILL TUNNEL SLIDE WITH MOLDED SAFETY EXTENSION 450
STARTING PLATFORM WITH UPRIGHTS, 14' SLIDE WITH WOODEN FRAMING AND SAFETY EXTENSION
THE TUNNEL IS MADE OF TRANSLUCENT 7/16" THICK ORANGE POLYETHYLENE.

6' PLASTIC SLIDE 460
(FOR 3'6" HIGH PLATFORM)
ELASTOCRETE LANDING PAD (40" x 40")
(ELASTOCRETE IS A RESILIENT WATERPERMEABLE RUBBER SAFETY SURFACE).

4' x 8' STAINLESS STEEL SLIDE ON WOOD FRAME 470
PLEASE INQUIRE ABOUT DIFFERENT SIZES

6' PLASTIC SLIDE/6' TUNNEL SLIDE WITH SAFETY EXTENSIONS
PLASTIC AND TUNNEL SLIDES ARE AVAILABLE IN ANY LENGTH AND COMBINATION.

SLIDES

DOWNHILL TUNNEL SLIDE WITH MOLDED SAFETY EXTENSION 450
STARTING PLATFORM WITH UPRIGHTS, 14' SLIDE WITH WOODEN FRAMING AND SAFETY EXTENSION
THE TUNNEL IS MADE OF TRANSLUCENT 7/16" THICK ORANGE POLYETHYLENE.

6' PLASTIC SLIDE 460
(FOR 3'6" HIGH PLATFORM)
ELASTOCRETE LANDING PAD (40" x 40")
(ELASTOCRETE IS A RESILIENT WATERPERMEABLE RUBBER SAFETY SURFACE).

4' x 8' STAINLESS STEEL SLIDE ON WOOD FRAME 470
PLEASE INQUIRE ABOUT DIFFERENT SIZES

6' PLASTIC SLIDE/6' TUNNEL SLIDE WITH SAFETY EXTENSIONS
PLASTIC AND TUNNEL SLIDES ARE AVAILABLE IN ANY LENGTH AND COMBINATION.
NEWMARKET 151

- 4-11 YEARS
- 60-90 CHILDREN
- PLATFORM AREA 322 SQ. FT.
- GROUNDSPACE 60' x 36'

A UNIQUE STRUCTURE TO FOSTER PLAY BETWEEN HANDICAPPED AND NON-HANDICAPPED CHILDREN. RAMPS ARE BUILT AT AN ANGLE OF 1:12; THE WAVES IN ONE OF THE RAMPS ADD EXCITEMENT FOR WHEELCHAIRS AND TRICYCLES. THE TRIPLE BRIDGE SYSTEM FEATURES ONE SOLID BRIDGE WITH OVERHEAD RUNGS TO ALLOW A CHILD IN A WHEELCHAIR TO PULL HIMSELF ACROSS; AMBULATORY CHILDREN WILL USE THE SUSPENDED RUNGS AS A HAND-OVER-HAND LADDER. THE SUSPENSION BRIDGE IS BUILT FOR USE BY CHILDREN IN WHEELCHAIRS; TIRE CLIMBER AND TIRE BRIDGE ARE USED BY NON-HANDICAPPED CHILDREN. THE ACCESSIBLE SANDPLAY TABLE WITH TWO PLAYBAYS FOR WHEELCHAIRS RECEIVES ITS SAND FROM THE PULLEYSYSTEM ON THE ADJACENT CONSTRUCTION CLIMBER. THE PLAYHOUSE IS ACCESSIBLE FOR WHEELCHAIRS.

WE HAVE DESIGNED AND BUILT SEVERAL STRUCTURES FOR HANDICAPPED CHILDREN AND WELCOME YOUR INQUIRIES ABOUT PLAYFACILITIES FOR CHILDREN WITH SPECIAL NEEDS.
A CHALLENGING HAND-OVER-HAND LADDER FOR SCHOOL AGE CHILDREN.

AS THE CHILD REACHES FROM ONE RUNG TO THE NEXT IT PROPELS THE RUNG CAGE FORWARD OR BACKWARD. THE RUNG CAGE IS CARRIED ON TWO METAL TRACKS.

A CHALLENGING HAND-OVER-HAND LADDER FOR SCHOOLAGE CHILDREN.

AS THE CHILD REACHES FROM ONE RUNG TO THE NEXT IT PROPELS THE RUNG CAGE FORWARD OR BACKWARD. THE RUNG CAGE IS CARRIED ON TWO METAL TRACKS.

ROTATING HAND OVER HAND LADDER 507

- 6-14 YEARS
- 8-12 CHILDREN
- 14' x 8' GROUNDSPACE

REVOLVING BALANCING CAROUSEL 508

- 5-14 YEARS
- 8-10 CHILDREN
- GROUNDSPACE 16' x 16'

FOUR TIRES MOUNTED ON BALL BEARINGS PIVOTING AROUND A CENTER AXLE. THE MOVEMENT OF THE TIRES IS SLOW SO THAT IT DOESN'T POSE ANY DANGER TO THE CHILDREN. FLAT SURFACE REQUIRED.
CABLE RIDE 500

- 7-14 YEARS
- 20 CHILDREN
- GROUNDSPACE 14’ x 100’

THE CABLE RIDE WILL PROVE TO BE ONE OF THE MOST POPULAR AND DYNAMIC ITEMS ON YOUR PLAYGROUND, DESIGNED PARTICULARLY TO STIMULATE ACTION AMONG OLDER CHILDREN. THE LENGTH OF THE CABLE IS VARIABLE BETWEEN 50’ AND 100’. THE IDEAL LOCATION FOR A CABLE RIDE IS ALONGSIDE FENCE TO AVOID PEDESTRIAN CROSSTRAFFIC THROUGH THE CABLE AREA. THE IDEAL DROP FOR THE CABLE IS NO MORE THAN 5’ OVER 100’.

FOR FLAT SITES, THE OPTIONAL STARTING PLATFORM (4’ HIGH) IS AVAILABLE, WITH A STARTING RAM 12’ LONG. THE SAG OF THE CABLE PROVIDES NATURAL BRAKING ACTION TO THE PULLEY. AN OPTIONAL SAFETY TIRE SEAT IS AVAILABLE FOR ATTACHMENT TO THE PULLEY.

DOUBLE CABLE RIDE WITH STARTING PLATFORM 503
TEETER TOTTER 308
- 2-6 YEARS
- 12' LONG; 18" HIGH

TIRE CAROUSEL 307
- 2-6 YEARS
- 24" DIAMETER, 18" HIGH
- THE TIRE IS MOUNTED ON A WOODEN PLATFORM AND ROTATES ON BALL BEARINGS

TEETER BEAM 309
- 3-10 YEARS
- 10' LONG, 11" WIDE

PLAY PYRAMID 310
- 18 MONTHS-3 YEARS
- 15-25 CHILDREN
- GROUNDSpace 16' x 16'
- 27" HIGH, PLATFORM WITH 30" LONG SIDES

1 RAMP
1 VERTICAL LADDER
2 SETS OF STAIRS
6" RISERS
1 6' PLASTIC SLIDE
1 LOG RAMP
GAGE PARK 139

- 25-35 CHILDREN
- 3-10 YEARS
- PLATFORM AREA 80 SQ. FT.
- GROUNDS SPACE 30' x 25'

GAGE PARK PLUS 140

- 35-60 CHILDREN
- 3-11 YEARS
- PLATFORM AREA 125 SQ. FT.
- GROUNDS SPACE 37' x 37'

PLAYHOUSE WITH SLANTED ROOF
3'6" x 5'6" x 10" HIGH

CHIN-UP BARS
4'0" x 6'0" - 6'0"

FIREMAN’S POLE

TIRE CLIMBER

2'7" x 8'3/
PLASTIC SLIDES

PLATFORM
3'6" x 5'6" x 7'6" HIGH

RAMP

BALANCING BEAMS

DOUBLE TIRE LADDER

HAND OVER HAND LADDER

TIRE RAMP

SUSPENSION BRIDGE

PLATFORM
3'6" x 7'6" x 3'6" HIGH

LOG NET

PLATFORM
3'6" x 5'6" x 5'6" HIGH

10'0" PLASTIC SLIDE
MARKHAM 13
- 4-11 YEARS
- 20-30 CHILDREN
- PLATFORM SPACE 62 SQ. FT.
- GROUNDSpace 16' x 30'

MARKHAM PLUS 13
- 4-11 YEARS
- 30-40 CHILDREN
- PLATFORM SPACE 80 SQ. FT.
- GROUNDSpace 36' x 31'
TOWER 135
- 3-10 YEARS
- 5-15 CHILDREN
- PLATFORM AREA 17.5 SQ. FT.
- GROUNDSPACE 8' x 18'

THIS TOWER IS ALSO AVAILABLE WITH ROOF.

POINT CLAIRE 136
- 3-10 YEARS
- 10-15 CHILDREN
- PLATFORM AREA 44 SQ. FT.
- GROUNDSPACE 27' x 22'
LOTS OF PLAY FOR YOUNGER CHILDREN.

TWO PLAYHOUSES AT DIFFERENT LEVELS (3'6"/18") ARE BUILT AROUND A LARGE SIX SIDED SANDBOX. THE SANDPLAYWALL ON THE 4' HIGH PLATFORM ALLOWS CHILDREN TO PULL UP SAND TO THE PLATFORM—WE PROVIDE A PULLEY, COVERED IN A SAFE WOODEN HOUSING—WITH CHAIN, AND A RUBBER PAIL. THE SAND IS RETURNED TO THE SANDBOX BY THE OPEN CHUTE.

A CHAINWOOD NET AND A VERTICAL LADDER GIVES ACCESS TO THE 4' HIGH PLATFORM; FIREMAN’S POLE, TUBE—AND PLASTIC SLIDE ALLOW FOR FAST EGRESS.

TODDLERS ENJOY PLAYING ON THE LOW PLATFORM, IN THE PLAYHOUSE AND IN THE SANDBOX.

PLAY VILLAGE 200
- 18 MONTHS-10 YEARS
- 30-40 CHILDREN
- PLATFORM AREA 130 SQ. FT.
- GROUNDSPACE 30' x 25'
STRATFORD 142
- 5-11 YEARS
- 35-45 CHILDREN
- PLATFORM AREA 75 SQ. FT.
- GROUNDSpace 40' x 30'

STRATFORD PLUS 143
- 5-11 YEARS
- 45-65 CHILDREN
- PLATFORM AREA 95 SQ. FT.
- GROUNDSpace 40' x 60'
12'0" TUBE SLIDE WITH SAFETY EXTENSION PLATFORM 6'0" x 7'6" - 5'6" HIGH
TIRE SWINGS
HAINWOOD NET
TIRE SUSPENSION BRIDGE FROM 3'6" TO 5'6"

2 SETS OF BALANCING CABLES
EIRE LADDER
STEERING WHEEL
PLATFORM 6'0" x 7'6" x 3'6" HIGH
HAND OVER HAND LADDER

BALANCING BEAMS
12'0" RAMP

PLAY COUNTER UNDER PLATFORM

12'0" TUBE SLIDE WITH SAFETY EXTENSION PLATFORM 6'0" x 7'6" x 5'6" HIGH
TIRE SWINGS
HAINWOOD NET
TIRE SUSPENSION BRIDGE FROM 3'6" TO 5'6"

2 SETS OF BALANCING CABLES

BRIDGEWATER 103
- 5-11 YEARS
- PLATFORM AREA 90 SQ. FT
- 40-60 CHILDREN
- GROUNDSspace 62' x 36'

5-11 YEARS
PLATFORM AREA 90 SQ. FT
40-60 CHILDREN
GROUNDSpace 62' x 36'
BURLETON 141

- 5-12 years
- 50-70 children
- Platform area 100 sq. ft.
- Groundspace 55' x 40'

Platform areas:
- 6'0" x 6'1" x 5'6" high
- 5'6" x 9' x 3'6" high
- 1'0" x 1'6" x 18' high
- 1'0" x 1'6" x 18' high
- 2'0" x 1'6" x 18' high
- 2'0" x 1'6" x 18' high
- 1'6" x 5'0" x 3'6" high
- 3'6" x 9' x 3'6" high

Equipment:
- Double trailer ride
- 2 sets of balancing beams
- Chainwood net
- Balancing beams
- Fireman's pole
- Fire slide
- Tire climber
- Chin up bars
- Suspension bridge
- Balancing beams
- Fireman's pole
VINELAND 106
- 5-11 YEARS
- PLATFORM AREA 180 SQ. FT.
- 70-90 CHILDREN
- GROUNDSPACE 55' x 35'

HARRIS PARK 109
- 5-11 YEARS
- 35-45 CHILDREN
- PLATFORM AREA 40 SQ. FT.
- GROUNDSPACE 44' x 30'

DIAGRAMS:
- Hand Over Hand Ladder
- Balancing Beams
- Totter Bridge
- Platform 3 1/2' x 3 1/2' x 3 1/2' high
- Tire Ladder
- Platform 6 6' x 7 6' x 7 6' high
- Fireman's Pole
- Platform 2/Platform 6 6' x 7 6' x 7 6' high
- Tire Suspension Bridge from 2' to 5 6'
- Tires
- Tire Swing
- Suspension Bridge from 5 6' to 7 6'
- Fireman's Pole
- 2 Balanceaga Lab
- 6 0' Plastic Slide
- Log Net
- 120' Ramp
- Steering Wheel
- 6 0' Plastic Slide
- Platform 3 6' x 9 0' x 3 6' high
- Log Net
- Steering Wheel
HALTON
TIGHTROPE 104
- 5-11 YEARS
- 40-50 CHILDREN
- PLATFORM AREA 110 SQ. FT.
- GROUNDSPACE 40' x 30'

ITALIMER 12'0" TUBE SLIDE WI
E1.

PLAH0R151 241 -

OMAN( INC BEAMS

PLATFORM
6'0" x 7'6" x 5'6" HIGH

HAND OVER
HAND LADDER

FIREMAN
S POLE

PLATFORM
5'6" x 16" x 3'6" HIGH

SUSPENSION BRIDGE

12'0" RAMP

PLATFORM
6' x 7'6" x 3'6" HIGH

BALANCING CABLES
CHAINWOOD NET
2/60' PLASTIC SLIDES

12'0" TUBE SLIDE WITH
SAFETY EXTENSION

PLATFORM
6'0" x 7'6" x 5'6" HIGH

CHIN UP BARS

HALTON
NORTH RIDGE 105
- 5-11 YEARS
- 40-50 CHILDREN
- PLATFORM AREA 110 SQ. FT.
- GROUNDSPACE 46 x 30'

PLATFORM 2'0" x 3'5" x 18" HIGH

HAND OVER HAND LADDER

BALANCING BEAMS

PLATFORM 2'0" x 3'5" x 18" HIGH

SUSPENSION BRIDGE

PLATFORM 3'5" x 3'5" x 3'5" HIGH

RAMP 12'0" LONG

PLATFORM 6'0" x 3'5" x 3'5" HIGH

12'0" TUBE SLIDE WITH
SAFETY EXTENSION

PLATFORM 6'0" x 7'6" x 5'6" HIGH

CHIN UP BARS

40" x 5'6" x 6'0" HIGH

CHAINWOOD NET
2 SETS OF
BALANCING CABLES
BRANKSOME HALL 102

- 4-12 YEARS
- PLATFORM AREA 90 SQ. FT.
- 30-40 CHILDREN
- GROUNDSPACE 28' x 50'

CHAINWOOD NET
PLATFORM 6'0" x 7'6" x 5'6" HIGH
TIRE SWINGS
DUNDAS 101

- 4-12 YEARS
- 30-40 CHILDREN
- PLATFORM AREA 90 SQ. FT.
- GROUNDSPACE 30' x 30'

THE PRICE OF THIS UNIT INCLUDES MAIN STRUCTURE ONLY - SEE DRAWING.
EQUIPMENT CLASSIFICATION & PRICES

The following list identifies the equipment appropriate for developmental and recreational needs of children and the needs of adult supervisors for control, safety, and ease of maintenance.

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