

Playground Renovation Playbook

Community Unit School District 200





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Project #981



Federal and State Guidelines for Playground Design

Playground design shall use guidelines, standards and laws that align with the following resources. During design, confirm the use of the latest versions of the standards in the links provided below.



ASTM INTERNATIONAL

ASTM International

F1292

Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment

<https://www.astm.org/f1292-18e01.html>

F1487

Standard Consumer Safety Performance Specification for Playground Equipment for Public Use

<https://www.astm.org/f1487-21.html>

F1951

Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment

<https://www.astm.org/f1951-21.html>

F2049

Standard Safety Performance Specification for Fences/Barriers for Public, Commercial, and Multi-Family Residential Use Outdoor Play Areas

<https://www.astm.org/f2049-11r17.html>

F2075

Standard Specification for Engineered Wood Fiber for Use as a Playground Safety Surface Under and Around Playground Equipment

<https://www.astm.org/f2075-20.html>

F2223

Standard Guide for ASTM Standards on Playground Surfacing

<https://www.astm.org/f2223-19a.html>



Consumer Product Safety Commission (CPSC)

The United States Consumer Product Safety Commission's Public Playground Safety Handbook

<https://www.cpsc.gov/s3fs-public/325.pdf>

Americans with Disabilities Act (ADA)

Federal Register: Part IV: Architectural and Transportation Barriers

Compliance American with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities

https://www.ada.gov/2010ADASTandards_index.htm



Planning Process and Milestones

Pre-Planning

Plan a meeting to discuss the scope and project area for each of the schools for the upcoming year. Once identified, hire an Illinois Registered Land Surveyor to prepare a topographic survey for the playground areas at each site. The land immediately surrounding the playground including asphalt play area and main door access will be included while entire buildings and parking lots will not be surveyed. The surveys will be used as a base for planning and construction document preparation.

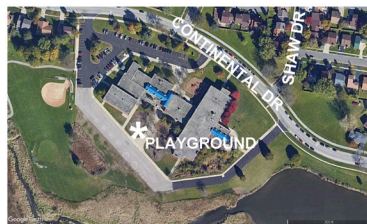
Concept Planning & Public Engagement

Kick Off Meeting / Site Visit with School

Meet on site with District representatives to visit each playground with the topographic survey in hand and take photos. Also review the playground audits for each site with the design team. Be prepared to review the site with the stakeholder group including the trends and ideas from various manufacturers. Discuss schedule and share preliminary budgets for each school. An overall discussion of the equipment quality, vendor accountability and assistance as well as pricing of the different manufacturers with the District. Input from the stakeholder groups on elements to be included or not included in future playground will also be completed.

School Community Online Survey

Images will be prepared for an online survey for each school. The District will share online surveys for each school's playground options with the school communities. We suggest one open ended question be a part of the survey to allow the community to give additional input. A summary of the survey and final recommendations for each School playground will be reviewed. The School District will then give final direction for each School.



Existing Playground



PLAYGROUND RENOVATION CONCEPT PLAN

SCALE: 1" = 10'-0"
0 5' 10' 20' 30'



November 26, 2021
Chicago, IL
Upland Design Ltd
Project #011

Planning Process and Milestones

Concept Planning & Public Engagement (continued)

Planning and Coordination with Vendors

Based on direction from the community, the school, and the District, an RFP with defined equipment purchase budgets will be created and shared with multiple vendors. Two weeks will be given to vendors to prepare a plan view that fits in the designated concept plan and 3D renderings will supplement the plan.

Concept Review Meeting

Based on the input from the kick-off meeting, one concept plan will be prepared for each school. The budgets will be updated for each site. The play equipment options will be prepared in 3-D format as well as plan view. The plans, equipment choices and cost estimates will be reviewed with the School District. Staff will choose one equipment option to move forward.

Equipment Adjustments to Schools

After input from the Concept Review Meeting, adjustments to the concept plan and playground equipment will be made and shared for final approval.

Final Equipment Selection from Schools

Final selection of the playground equipment will be selected by the school prior including equipment and colors prior to moving forward with the Construction Documents.



Planning Process and Milestones

Construction Documents

Develop Construction Documents

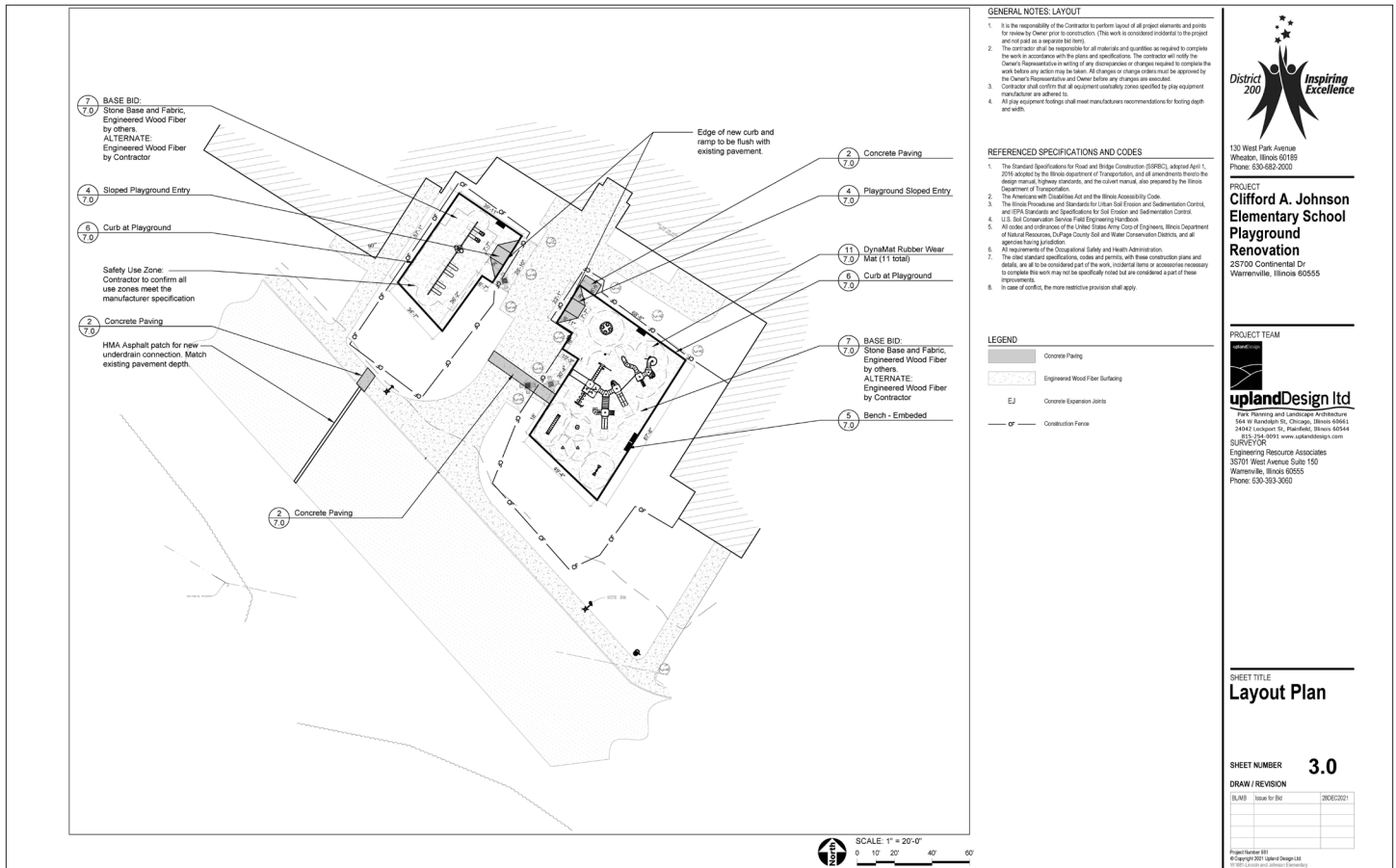
Based on the selected equipment a set of construction plans, specifications and bid proposal form will be prepared for public bidding. The two projects will be prepared as two plan sets and one specification book with a combined bid proposal form. Construction documents will address the following:

- Existing Conditions and Removal
- Layout of Accessible Route and Access Ramps
- Site Furniture and Play Equipment
- Grading and Drainage
- Proposed Landscape Restoration
- Construction Details
- General and Technical Specifications
- Bid Proposal Form

95% Construction Document Review

A review meeting at 95% complete construction documents will take place with School District staff. An updated estimate of construction costs will be available for review at this meeting. Comments from this meeting will be incorporated into the documents.

Permits: The majority of playground replacement project do not require local building permits. When drainage needs to tie in to off site storm systems, permits should be secured. If disturbed site is less than one acre, an IEPA NOI will not be required, other wise this permit should be prepared and applied for through the State of Illinois.



Planning Process and Milestones

Bidding

Out to Bid

The bid documents will be distributed through an online plan room and will provide both digital and paper copies as requested by bidders. The Landscape Architect will contact contractors and will be available to answer questions during bidding. The School District will place the legal ad in a local paper and perform any other procedure as required by local purchasing policies.

Pre-Bid Meeting

An optional pre-bid meeting may be scheduled with School District staff to visit and review the site.

Bid Open

During the bid opening all bid submissions will be read aloud. The Landscape Architect will then check bids for math accuracy and review the bids with staff. If necessary, references of the apparent low and responsible bidder will be contacted.

Bid Summary Letter / Board Packets / Board Meeting

An bid summary letter will be prepared summarizing the bid results. This will be included in the School Board Packet for review and award of contract.

Construction

Playground Equipment and Safety Surfacing Purchase

After the Board approves the playground equipment, the School District will purchase the equipment directly through a cooperative purchase program. The safety surfacing will be bought locally through standard purchasing procedures.

Contract Phase with Contractor

The contract between with the School District and the awarded contractor will be prepared and executed between both parties.

Start and End Construction

Construction is intended to start after school concludes in June and go through the summer so it is complete by the time school starts in August.



Planning Timeline

JULY

- Pre-Planning Meeting to Review Scope and Project Area
- Topographic Survey Field Work

AUGUST

- Kick Off Meeting and Site Visit with School
- School Community Online Survey #1

SEPTEMBER

- Planning and Coordination with Vendors
- Concept Review Meeting

OCTOBER

- Equipment Updates to Schools
- Final Equipment Selection from Schools

NOVEMBER

- Develop Construction Documents
- 95% Construction Document Review

DECEMBER

- 100% Construction Document Submittal
- Out to Bid

JANUARY

- Optional Pre-Bid Meeting
- Bid Open
- Board Meeting Approval

FEBRUARY

- School District to Order Playground Equipment
- Contract Phase with Contractor Begins

MARCH

- Start Contractor Submittal Review

APRIL

MAY

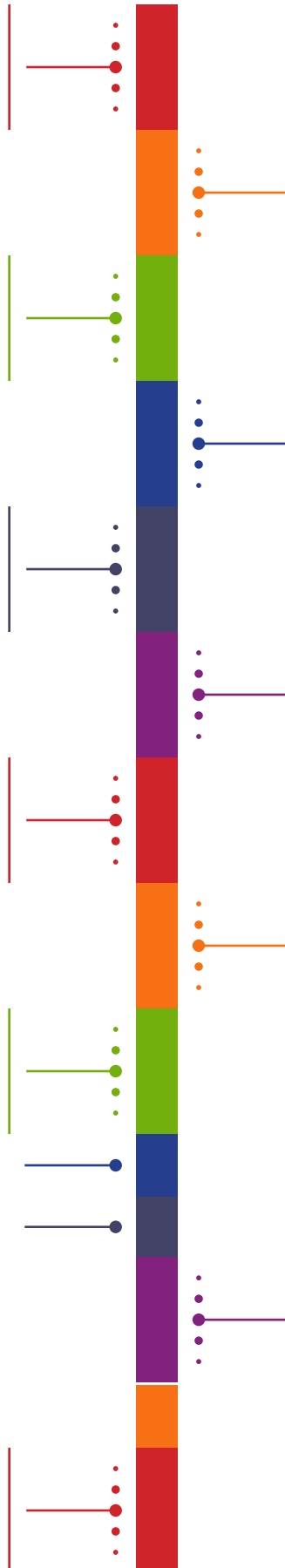
JUNE

- Last Day of School
- Start Construction

JULY

AUGUST

- Construction Complete
- First Day of School



Additional Information

- **Online survey**
Gather input on the type of equipment and support amenities the school community is interested in having. Use photos in the survey.

- **Review equipment**
Review equipment designs with the Design Guidelines Checklist. Adjust designs before making final selection to meet needs of all kids.

- **Bid Documents**
Include construction start dates and required completion dates in the bid documents to align with the School District's calendar when children are on summer break.

- **Equipment Order**
Confirm delivery dates with vendors so that the equipment arrives in time for summer construction.









- **Construction Completion**
Schedule a punch list walk through to review the site and equipment at the completion of construction. Also, have playground sales vendor review installed equipment as an additional check before the playground is opened for use.

Design Guidelines and Self Evaluation Checklist

Design guidance and checklist for high quality school age play environments

- New playground structures: 5–12-year-old age range
- Install varied seating options which include accessible benches
- Defined edge on all sides to denote, at minimum, edge of safety zone if not larger. Concrete curb is a long term material for edging.
- Accessible concrete entry ramp for each playground. Not to exceed 6.25% slope.
- Replace surfacing with impact attenuating surface that meets all ASTM standards in playground equipment areas and include underdrain system

Within the playground environment, incorporate the following elements of dynamic play:

-  **Space**
Space for kids to run, jump and play allows room for growth and development. Additionally, unstructured space encourages socializing.
-  **Diversity**
Multiple levels of activities with a diversity of play events keep kids interested and increase children’s physical activity at the site.
-  **Circuits**
Multiple loops and access points provide paths of movement to explore and learn while encouraging exercise through play.
-  **Seating**
Comfortable seating throughout the playground for adults to monitor activity as well as quiet places for kids to step away from the excitement is important to meet all user’s needs.
-  **Safety**
Adhering to CPSC and ASTM for public playground safety is a key element to creating long term site safety. Additionally, protection from the sun, wind and busy streets will promote a feeling of safety and encourage families to return.
-  **Nature**
Access to the natural environment improves children’s cognitive and social development and creates more complex play that lasts for longer periods of time.
-  **Social Inclusion**
Inclusive spaces encourage people with different abilities and ages to share the space socially and psychologically not just physically. This expands the ADA guidelines deeper for a more inclusive play environment.
-  **Imagination**
Promoting imaginative play engages children’s cognitive skills and can make play more fun for all ages of visitors. Themes and areas that promote imagination engage a child’s analytical skills and encouraging exploration.

Playground Replacements by Year



Summer 2022

Lincoln Elementary
Johnson Elementary



Summer 2023

Bower Elementary
Lowell Elementary



Summer 2024

Hawthorne Elementary (swings only)
Pleasant Hill Elementary
Sandburg Elementary



Summer 2025

Whittier Elementary
Wiesbrook Elementary



Summer 2026

Emerson Elementary
Washington Elementary



Summer 2027

Longfellow Elementary
Madison Elementary



APPENDIX A: Manufacturers and Local Representative Contacts

Below are manufacturers that have submitted proposals to the School District. This is not a comprehensive list of all play equipment manufacturers but a good compilation. Local representative's contact information is current as of the winter of 2022.

PLAY EQUIPMENT MANUFACTURER

LOCAL REPRESENTATIVE

Burke

P.O. Box 549
727 Northwest Way
Fond du Lac, WI 54937
Phone: 920-921-9220
www.bciburke.com

Play Illinois

Westmont, IL 60559
Phone: 844-222-9990
www.playil.com
Contact: Cheryl Parson, cparson@playil.com

Gametime

150 PlayCore Drive SE
Fort Payne, AL 35967
Phone: 1.800.235.2440
www.gametime.com

Cunningham Recreation

P.O. Box 240981
Charlotte, NC 28224
Phone: 800-438-2780
www.cunninghamrec.com
Contact: Doug Oberbrocking, doug@cunninghamrec.com

Landscape Structures

601 7th St. South
Delano, MN 55328
Phone: 888-438-6574
www.playlsi.com

Nutoys Leisure Products

Box 2121
LaGrange, IL 60525
Phone: 800-526-6197
www.nutoys4fun.com
Contact: Rick Bieterman, rickb@nutoys4fun.com

Miracle Recreation

878 E Highway 60
Monett, MO 65708
Phone: 888-458-2752
www.miracle-recreation.com

Team REIL

17421 Marengo Rd.
Union, IL 60180
Phone: 815-923-2099
www.getreil.com
Contact: Mike Cederlund, mike@getreil.com

Play & Park Structures

544 Chestnut Street
Chattanooga, TN 37402
Phone: 800-727-1907
www.playandpark.com

The Larson Equipment and Furniture Company

1000 E. State Parkway, Unit F
Schaumburg, IL 60173
Phone: 847-705-0460
www.larsoncompany.com
Contact: Chris Lutz, chris@larsoncompany.com

Playworld Systems

1000 Buffalo Road
Lewisburg, PA 17837-9795
PH: 1.800.233.8404
www.playworld.com

Imagine Nation

Westchester, IL 60154
Phone: 847-640-0904
www.imagineparks.com
Contact: Vibeke Larson, vibeke@imagineparks.com

APPENDIX B: 2022 Elementary Playground Review



January 2022 Elementary Playground Review

| <u>Elementary School Building</u> | <u>Number of Students*</u> | <u>Playground Manufacturer</u> | <u>Year Installed/Updated</u> | <u>Playground Description</u> | <u>Playground Age Range</u> | <u>Current Estimated Condition**</u> | <u>Estimated Replacement Date</u> | <u>Inspection Report</u> | <u>Comments</u> |
|---|----------------------------|--------------------------------|-------------------------------|---|-----------------------------|--------------------------------------|--|--|--|
| Bower | 409 | Navistar | 2005 | 1 Structure & Swings | K-5, Special Needs | 3 | 10 Years | Bower Playground Inspection Report | Zero Priority 1 Issues on all structures |
| Bower | | Nutoys | 1980 | 1 Structure & Swings | K-5 | 1 | Summer 2023 | | |
| Bower | | Playworld | 1997 | 1 Structure & Bars | K-5 | 2 | Summer 2023 | | |
| Emerson | 272 | Nutoys | 2002 | 1 Structure & Swings | K-2 | 3 | Summer 2026 | Emerson Playground Inspection Report | Zero Priority 1 Issues on all structures |
| Emerson | | Nutoys | 1997 | 1 Structure & Swings | K-5 | 2 | Summer 2026 | | |
| Hawthorne | 172 | Nutoys | 1987-2009 | 1 Structure, Bars, Swings, Climber & Funnel | K-5 | 2 | Swings - Summer 2024, Remaining areas - 10 Years | Hawthorne Playground Inspection Report | Zero Priority 1 Issues |
| Jefferson Early Childhood Center | 275 | Nutoys | 2020 | 2 Structures | Pre-K | 4 | 20 Years | | No Report was generated based on Installation Year (2020) |
| Johnson | 452 | Landscape Structures | 1990-2006 | 2 Structures & Bars | K-5 | 1 | 10 Years | Johnson Playground Inspection Report | Zero Priority 1 Issues - Identified as top priority for replacement along with Lincoln |
| Johnson | | | 1990 | Bars & Climber | K-5 | 1 | Summer 2022 | | |
| Johnson | | Landscape Structures | 1997 | 2 Structures & Swings | K-5 | 1 | Summer 2022 | | |
| Lincoln | 444 | Miracle | 1993 | 1 Structure & Bars | K-2 | 1 | Summer 2022 | Lincoln Playground Inspection Report | Five Priority Issues were Identified and Rectified in July 2021. Identified as top priority for replacement along with Johnson |
| Lincoln | | Miracle | 1985-1991 | 1 Structure, Bars & Swings | K-5 | 1 | Summer 2022 | | |
| Longfellow | 336 | Nutoys | 2001 | 1 Structure, Bars & Swings | K-5 | 3 | Summer 2027 | Longfellow Playground Inspection Report | Zero Priority 1 & 2 Issues |
| Lowell | 266 | Landscape Structures | 1996 | 1 Structure & Swings | K-5 | 2 | Summer 2023 | Lowell Playground Inspection Report | Zero Priority 1 Issues on all structures |
| Lowell | | Nutoys | 1994 | 1 Structure, Playboard & Funnel | K-5 | 2 | Summer 2023 | | |
| Madison | 413 | Miracle | 2004 | 1 Structure | K-2 | 3 | Summer 2027 | Madison Playground Inspection Report | Zero Priority 1 Issues on all structures |
| Madison | | Miracle | 2001 | 1 Structure & Bars | K-5 | 3 | Summer 2027 | | |
| Madison | | Miracle | 2020 | 2 Structures, Bars & Swings | K-5 | 4 | 20 Years | | |
| Pleasant Hill | 544 | Nutoys | 1996 | 1 Structure | K-2 | 2 | Summer 2024 | Pleasant Hill Playground Inspection Report | Only one (Priority 4) Issue noted. All other conditions assessed as compliant. |
| Sandburg | 388 | Nutoys | 1996 | 2 Structures, Bars & Swings | K-5 | 2 | Summer 2024 | Sandburg Playground Inspection Report | Zero Priority 1 Issues on all structures |
| Sandburg | | Nutoys | 1994 | 1 Structure, Bars & Swings | K-5 | 2 | Summer 2024 | | |
| Sandburg | | Nutoys | 1998 | 2 Structures, Bars & Swings | K-5 | 2 | Summer 2024 | | |
| Washington | 362 | Miracle | 2004 | 1 Structure, Bars & Swings | K-5 | 3 | Summer 2026 | Washington Playground Inspection Report | Zero Priority 1 Issues |
| Whittier | 410 | | 1998 | 1 Structure & Bars | K-5 | 2 | Summer 2025 | Whittier Playground Inspection Report | Zero Priority 1 Issues |
| Wiesbrook | 476 | Landscape Structures | 1996 | 1 Structure & Swings | K-2 | 2 | Summer 2025 | Wiesbrook Playground Inspection Report | Zero Priority 1 Issues on all structures |
| Wiesbrook | | Landscape Structures | 1997 | 2 Structures & 2 Swings | K-5 | 2 | Summer 2025 | | |
| * As of August 6, 2021 | | | | | | | | | |
| ** Condition 1 = Poor Condition - System will need significant repair or replacement in 1-3 Years | | | | | | | | | |
| ** Condition 2 = Fair Condition - System will probably require repair or replacement anytime within 4-8 Years | | | | | | | | | |
| ** Condition 3 = Good Condition - System is functionally consistent with original purpose but may show signs or normal wear, tear and deterioration. Reassess every 5 years | | | | | | | | | |
| ** Condition 4 = Excellent Condition - Built within last 5 years. Reassess every 5 years | | | | | | | | | |