





Humboldt Park School

Conceptual Schoolyard Redevelopment Plan

December 2023

Acknowledgments

Humboldt Park Green Team

Katy Bontempo Darci Bowden Erik Conner Sarah Elger Lindsay Feiker Daniel LaFrenz Alyssa Mussa Ellie Salzwedel

Community Partners

Bay View Neighborhood Association Boerner Botanical Gardens Keep Greater Milwaukee Beautiful Humboldt Park Friends Milwaukee Art Museum Milwaukee County Parks Milwaukee Youth Theater MKE Indoor Outdoor Exchange Nestling House Playworks Wisconsin Second Step / Steps to Respond

Special thanks to those supporting the schoolyard redevelopment planning:



Kevin Shafer Bre Plier Lisa Sasso Jay Feiker

Conceptual Planning Sponsor



Justin Hegarty Lisa Neeb Maddy Day Kareem Benson-White Wilniesha Smith José Basaldua Jasmine Viges Michael Timm



Sean Kane Michelle Lenski Heather Dietzel Shannon Arms Denise Fields Megan Burk Carlos Rodriguez Kimberly Talarico



Carolyn Esswein Tess Richard Roe Draus Patrick Finucane Steven Rasmussen Gizem Cakal















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Land Acknowledgment

We acknowledge that Milwaukee lies on traditional Menominee, Potawatomi, and Ho-Chunk homeland along the southwest shores of Lake Michigan, part of North America's largest system of freshwater lakes. On this site, the Milwaukee, Menominee, and Kinnickinnic rivers meet, and the people of Wisconsin's Menominee, Ojibwe, Ho-Chunk, Oneida, and Mohican sovereign nations remain present to this day.



Introduction

Impervious surfaces (hardscapes including asphalt and concrete) characterize so much of our built environment that we no longer even notice how they shape the contours of our urban communities. Excessive imperviousness leads to sewage overflows and basement backups, degrades the quality of our rivers and lake, and costs us millions each year in economic losses and infrastructure repair, all of which deter investment and impede socioeconomic progress. Schools surrounded by seas of splintering asphalt offer opportunities to replace imperviousness with beautiful, nature-inspired landscapes that increase urban biodiversity, educate, and inspire.

Through funding provided by the Milwaukee Metropolitan Sewerage District and the Fund for Lake Michigan, the nonprofit Reflo and its partners collaborate with five schools annually to develop conceptual schoolyard redevelopment plans that holistically address the issue of each school's imperviousness. This document compiles over a year of conceptual planning in order to provide a single, feasible vision for redeveloping a greener, healthier schoolyard. These projects also provide a multitude of STEAM (science, technology, engineering, arts, and mathematics) curricular connections as well as triple-bottom-line (social, environmental, and economic) benefits for the students, school, and community.



School Story

Humboldt Park School was built in 1925 in the community of Bay View. For many years, Humboldt was largely a community school, servicing neighborhood families. Over the past 20 years, we have diversified our student population to also serve students who are refugees, immigrants, and asylees from all over the world. Our students enroll with us from all parts of the city, with an English Learner population of over 60%, and 26 languages spoken in the building. Many of our students come to Humboldt Park within their first year entering the country, so we are able to give them a unique experience of education in the United States. Our diverse learner population is what inspired our school motto, "Rooted in the Community... Educating the World".

We prioritize the holistic development of our students, emphasizing both academic and social growth. The

school places a strong focus on parent involvement and maintains a rigorous curriculum to support its educational mission. With a focus on higher-level thinking skills, Humboldt Park prepares its students to be successful in high school, college, and beyond.

Humboldt Park School parents actively support our unique educational environment through participation in the SEC (School Engagement Council), the PTO as well as volunteering in classrooms and assisting with school-wide events and fundraisers. This collaborative effort fosters a nurturing and high-standard academic and social environment that defines Humboldt Park, ensuring excellence for all its students as they develop into lifelong learners and our next generation of leaders. The opportunity to provide our students with these green spaces will allow us to further prepare our students to be future stewards of their environment.







Humboldt Park School

3230 S ADAMS AVENUE, MILWAUKEE, WI, 53207

- Milwaukee Public School
- Grades: K4 through 8th
- 592 students
- 78% economically disadvantaged
- 19% special education
- 42% English learners
- Separated sewer area
- Kinnickinnic River watershed



Conceptual Redevelopment Plans

On an annual basis, the nonprofit Reflo and its partners, with the support of the Milwaukee Metropolitan Sewerage District (MMSD), works through the Green Schools Consortium of Milwaukee (GSCM) to select and collaborate with schools that are interested in redeveloping their schoolyards. Planning efforts incorporate creative applications of stormwater green infrastructure, outdoor educational elements, and other features that improve the social, environmental, and economic health of the school and community. With the approval of school and district administrators, schools apply for and are selected to receive conceptual planning support. The over year-long collaborative planning process has resulted in the production of this

conceptual planning document, which is intended to guide the multi-year redevelopment.

Humboldt Park's conceptual plan includes many stakeholder perspectives including those of students, parents, teachers, administrators, maintenance staff, neighborhood residents, and project partners. The plans are intended to be feasible and to support the school's and project stakeholders' needs and interests. Significant care was taken to consolidate project ideas and coalesce around one unified project vision. As the project progresses through the fundraising and detailed design phases, project components will be further defined and best fit to the amount of funds raised.

Humboldt Park School's Vision:

We envision offering a differentiated academic and social emotional educational program where staff works with diverse learners and families to create hard working, persevering, collaborative individuals who go onto 9th grade demonstrating grade level proficiency and who continuously grow and navigate a path towards lifelong learning.

Network of Support

The GSCM is a local network of practitioners, agencies, and funders that are committed to supporting greener, healthier schools and ecoliteracy in the Milwaukee area. The GSCM gathers on a bimonthly and annual basis to share resources and lessons learned. The 7th Annual Green & Healthy Schools Conference hosted more nearly 600 participants and over 80 exhibitors. Each year the GSCM also hears from schools that are interested in schoolyard redevelopment projects and collectively decides which projects to support, in part, based on need and enthusiasm.

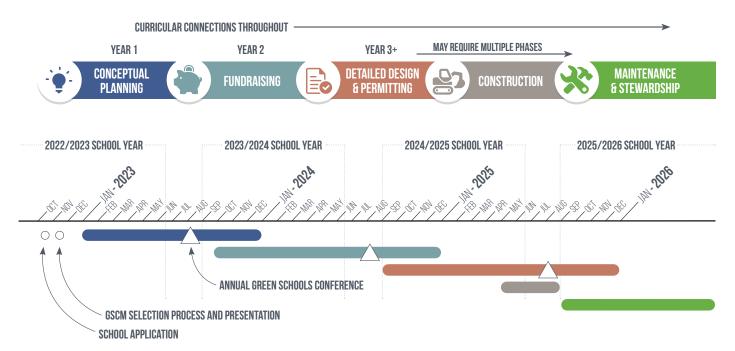




Project Development Process and Timeline

The following process diagram and timeline visualizes the major project development phases that a typical schoolyard redevelopment project in the Milwaukee area undertakes when supported by Reflo and the Green Schools Consortium of Milwaukee. The process begins in October with schools applying to receive a conceptual planning grant provided by Reflo and the

Milwaukee Metropolitan Sewerage District. Schools that advance to the second stage are then asked to present to the GSCM's Project Selection Committee on their need and enthusiasm. Following the selection, five schools are awarded the planning grant and begin the conceptual planning process with monthly Green Team meetings starting in January the following year.







Stormwater Green Infrastructure

Green infrastructure is a strategy that diverts stormwater runoff from entering the sewer system and manages stormwater where it falls through a more sustainable means, mimicking natural water systems. Green infrastructure can also provide creative opportunities to incorporate STEAM (science, technology, engineering, arts, and math) concepts in student learning and promote community engagement. The school grounds currently contribute a significant amount of stormwater runoff that can lead to area flooding and impaired water quality for our rivers and lake. The conceptual redevelopment plan includes multiple green infrastructure strategies to manage as much stormwater as feasible on the school grounds.

Humboldt Park School's conceptual plan calls for removal of approximately 16,250 sq. ft. of asphalt and replacing it with new green space and mixed-use recreation and educational areas. The design includes two outdoor classrooms areas, bioswales, and the addition of 25 stormwater trees. The inclusion of a variety of native plantings allow for unique spaces on the schoolyard that can represent natural Wisconsin ecosystems, complete with student-created signage. The vision also includes a porous, synthetic turf soccer field with an underground cistern beneath it to further manage rainwater where it falls. The plan manages approximately 182,275 gallons of stormwater per rain event.

Dramatically reducing the asphalt surfaces on our playground simultaneously benefits the environment and our students' capacity for learning while moving and enjoying the outdoors. There is an unprecedented amount of joy overflowing from the staff, students, families and community members that I have talked to about this project.







Asphalt Removal

Hard surfaces like asphalt and concrete are the primary sources of stormwater runoff. Replacing hardscapes with more porous landcovers and other types of green infrastructure helps infiltrate stormwater into the ground and prevent it from running off into the sewer system. These changes promote better stormwater management, reduce the heat island effect, improve social-emotional outlook, improve urban habitats, and increase biodiversity.

Bioswales

Bioswales typically capture polluted stormwater runoff from roads and parking lots, infiltrating that water into the ground and cleaning it naturally. They are planted with vegetation that helps to soak up and clean the polluted runoff. They can be installed as meandering or straight channels depending on the land that's available, and are designed to maximize the time rainwater spends in the swale.





Porous Groundcover

Built surfaces that allow for stormwater to pass through them and infiltrate into the soil below, come in many varieties including synthetic turf, pavers, concrete, rubber, or asphalt. These surfaces allow for play or other uses while also supporting stormwater management that may otherwise be difficult to accomplish in areas that are heavily used.

Native Plantings

Vegetation native to Wisconsin has adapted to the region's climate and soils. Native plants typically have deeper root systems that help them withstand both droughts and heavy rains and also allow for greater stormwater infiltration. These native plant sensory gardens also promote biodiversity and provide habitat for pollinator species.





Outdoor Education and Healthy Food Access

As illustrated in the infographics produced by Children & Nature Network and Cream City Conservation Corps (found in the Planned Curricular Connections section of this document), access to outdoor classrooms on school grounds can significantly **enhance learning** outcomes and social-emotional well-being. Raised bed gardens also offer the opportunity to provide low-cost, **healthy food** options to students, their families, and the surrounding communities. Successful Green Teams use school gardens as **educational opportunities** to explore topics such as water and life cycles, ecosystems, economics, geometry, conservation, and social studies.

Humboldt Park's schoolyard redevelopment includes **two outdoor classrooms** complete with seating and materials to support outdoor learning. A shade structure will cover one classroom area; trees will provide shade for the other. A **mindfulness garden** will provide pollinator habitat and a calm, relaxing area to support social-emotional well-being and other curricular connections. Nearby green infrastructure including stormwater trees, bioswales, and native plantings also serve as unique learning spaces. **Interpretative signage** throughout the schoolyard will support student-curated tours and encourage learning through self-guided exploration.

Green schoolyards promote academic achievement through hands-on, experiential learning and by enhancing the cognitive and emotional processes important for learning.

I think Humboldt Park desperately needs a playground upgrade. We have chunks of concrete that students continue to play with daily while outside. I think our students deserve spaces and places to explore and connect with nature, even in the heart of the city. I am excited to see the transformation, and see the students utilize their outdoor space everyday!







School Gardens

School gardens range in scale from the typical 4-by-8-foot raised bed garden, to hoop houses, to larger-scale greenhouses. Milwaukee-area schools have successful demonstrations of each scale of school garden and are best sized based on the interest level and capacity of the school's Green Team to manage the gardening operations.

Healthy Food Access

Some communities do not have easy access to low-cost, healthy foods. On top of providing engaging outdoor learning opportunities, school gardens are excellent opportunities to provide fresh, locally grown produce. Culinary arts lesson plans and tasting programs can demonstrate how healthy food can also be tasty food.





Culturally Relevant Curricular Connections

Developing lesson plans that are culturally relevant to students can help to create a sense of inclusiveness and promote positive learning outcomes for all students. For example, school gardens can include a diversity of crops that support exploration of different cultures and can demonstrate that food production is an important component of all cultures.

Outdoor Classrooms and Interpretative Signage

Outdoor classrooms can include natural green space and/ or built shade structures. Seating and shade elements are common design features to accommodate longer class periods outdoors. Interpretative signage can serve to engage local artists and support learning not only by students, but also by the surrounding community.





Arts and Community Engagement

The arts can be a simple yet profound way to address educational equity in our communities. Through the use of arts-enhanced and arts-integrated classroom methodologies, teachers can implement strategies that support curricular connections, maximize student engagement, and further academic success. Green and healthy themes can be explored through visual and performing art forms as students build their knowledge, investigate human impacts on the environment, analyze perceptions, and enhance personal connections to the natural world.

Green and healthy schools provide a unique opportunity to support the development of social-emotional learning (SEL) through the integration of the arts and environmental education. Arts @ Large and Milwaukee Public Schools are committed to designing programs that promote SEL while creating supportive learning environments that address the needs of the whole child. School staff receive training about the impacts of trauma, explore ways to meaningfully engage families, and support youth through experiential learning to better position them for potential future careers.

Natural areas promote child-directed free play that is imaginative, constructive, sensory rich and cooperative.

I am very excited to see a transformation in our school. I believe this will allow a more inviting space to the students and also to the people that are considering our school. I believe this will allow for more students to participate together and bring the students of Humboldt Park School closer together.





Social-Emotional Learning

The arts can be an incredible vehicle to model best practices in Social-Emotional Learning (SEL). SEL is the process of developing fundamental skills for life success within supportive, participatory learning environments. These skills include recognizing, managing emotions, setting/achieving goals, feeling/demonstrating empathy for others, establishing/maintaining positive relationships, and making responsible decisions.

Visual Arts

The use of visual arts strategies in the classroom can lead to greater engagement and deeper learning by the student. When paired with a project such as a schoolyard redevelopment, the works of art created by the students will not only beautify the space, but also provide a sense of ownership and accomplishment to celebrate with the students and their families. With the visual arts, the invisible becomes visible!





Performing Arts

The performing arts can be an incredible tool to activate spaces within the school environment. Theatrical performances and activities are a great way to explore a space and learn how to create meaningful interactions between students and nature, develop empathy for other forms of life, and learn to embrace sustainability as a community practice.

Exhibition

Creating student-led exhibitions is a great way to build an understanding of how nature sustains life. Through research and design, students can learn from content experts and share their experiences and knowledge through docent-led exhibits.





Recreation and Other Site Improvements

Naturalized spaces provide opportunity for cooperative play and help children develop resilience skills as they navigate novel environments and encounter new challenges. Well-supported and engaging recreational opportunities can also help increase attention spans, improve social-emotional learning, and encourage team building. Creative applications of visual arts on walls and ground coverings can help guide students in independent and group physical fitness activities. These recreational improvements can enhance critical thinking and problem-solving skills, reduce instances of childhood obesity, and promote other **positive health outcomes**.

Humboldt Park's conceptual plan includes a **synthetic** turf soccer field, gaga ball pits, nature play areas, and colorful asphalt markings. The plan calls for balance logs and stumps to support gross motor development and the addition of musical instruments to provide a variety of play experiences. To increase accessibility to the schoolyard, artistically designed benches are intended to help beautify the space and provide areas for rest. Significant thought was put into the flow of how students move through the various spaces with special consideration for activities such as soccer, tag, and pavement marking activities like four square and hopscotch.

Meaningful, positive experiences in nature guide children, youth and adults toward care for nature.

As a school partner, I am very excited for this project. Students need to experience a happy, safe environment to play and have the opportunity to build social-emotional learning skills while having fun on the playground at recess. This project will give students more free choice of opportunities to have successful play, mindfulness spaces for brain breaks, and fun on the schoolyard.







Nature Play

The incorporation of balance beams, loose parts, boulders, play mounds, and other nature-inspired features encourages imaginative, cooperative free play as students work together to explore their environment. These naturalized play features support the physical, social-emotional, and motor skill development of youth while promoting creativity and critical thinking.

Outdoor Recreation

Green schoolyards support a wide range of recreation activities that provide additional opportunities for student choice compared to traditional schoolyards. Youth may participate in quiet, solitary explorations or opt for organized group play. Varied recreation components allow children to build cooperation and negotiation skills and strengthen the connection between play and learning.





Game Play

Organized game play can provide students with the structure and support needed to approach challenges with confidence and build negotiation skills. Popular playground games like hopscotch and four square are often maintained while new games are also introduced through structured play activities. Youth are encouraged to experience the green schoolyard through free play and create new games led by their curiosity and imagination.

Mindfulness

Mindfulness practices encourage us to be present, attentive, and accepting. They provide an opportunity to learn how to be peaceful and kind while also reducing anxiety and promoting happiness. Areas designed for quiet play, sensory exploration, and reflection help students build self-awareness and emotional regulation by connecting with the natural world.













Planned Curricular Connections

It is important that the schoolyard redevelopment include plans for actively using the redeveloped space. This section provides a high level overview of how the school plans to make the most out of the new schoolyard components and connect the exciting redevelopment to the curriculum.

Humboldt Park School is a diverse school that welcomes all students and prepares them for success in higher education, post-educational opportunities, work, and citizenship. Our school serves students who are refugees, immigrants, and asylees from all over the world with 26 languages spoken in the building. Our students come from many different countries, including Myanmar, Malaysia, Thailand, Afghanistan, and Ukraine to name a few.

The envisioned outdoor spaces will help build strong classroom communities, with dedicated areas for play and exploration, while supporting a variety of curricular lessons for our students. Through creative play and multi-sensory experiences, Humboldt Park will promote a spirit of inclusion and support involvement in recreation and wellness activities for all students.

This playground redevelopment will offer Humboldt Park students the opportunity to explore their local environment, engage in constructive play, and gain education in sustainability. Students will be able to apply academic skills and improve comprehension through hands-on engaging experiences in a learning environment that extends beyond the school's walls and builds a positive connection to nature.

Humboldt Park is a school filled with diverse learners who deserve an amazing place to play. This playground will offer our student body a space for constructive play that they can explore and connect with nature, gain social and emotional skills, and have fun.



STEM Connections

The green schoolyard offers many STEM (science, technology, engineering, math) curricular connections that align with our **Project Lead the Way** coursework. Vibrant, living classrooms will provide a variety of enrichment activities to support hands-on, **project-based learning** that activate the curiosity and engagement of our students.

Children will discover living examples of **geometry**, **symmetry**, **and patterns** that support math curriculum across grade levels. Students of all ages will explore green infrastructure and the water cycle using the schoolyard as a living laboratory to investigate science concepts including **biodiversity**, life cycles, animal habitats, conservation, and the changing of seasons.



Early childhood students (K4–K5) will investigate science concepts through play and curiosity. Children will search for evidence of biodiversity such as animal tracks, **pollinator species**, and a variety of colors found in nature. The students will explore **life cycles** and use their senses to observe insects that make their homes on the schoolyard.

Lower elementary students (1st–3rd) will use the green spaces to investigate the **symbiotic relationships** of insects and plants such as monarch butterflies and milkweed. These investigations will provide rich, cross-curricular learning experiences for children. Students may plant, maintain, and observe a variety of species as they grow and see firsthand how they help **manage stormwater** in the area and change throughout the seasons.



Upper elementary students (4th–5th) will dive into life science concepts of **ecology**, food webs, and species relationships. In addition, the new schoolyard will provide opportunities to study math concepts such as graphing, comparing and contrasting **measurements** on different scales, and using shadows to determine the height of trees. Children will have ample opportunity to collect real-world data from rain gauges in the bioswales, conduct biodiversity counts of urban flora and fauna, and investigate urban design with **sustainability** in mind.

Middle school students (6th–8th) will have the opportunity to study biological relationships, habitats, and conservation without leaving school grounds. Our new schoolyard will allow students to experience ecological succession and **species interactions** firsthand as they observe living plants and animals begin to grow and thrive in the new green spaces at Humboldt Park. Children will conduct hands-on **research**, collect environmental data and have a natural classroom to track **weather patterns** and investigate soil composition, moisture, and functions.



Literacy and Language

The redeveloped schoolyard offers many opportunities to enhance our students' literature and language skills. Students will develop their **language and speaking skills** as they explore nature on the green schoolyard. Children will be encouraged to observe and make direct connections with their environment to help develop vocabulary as they explore real-life examples of new concepts and a relaxing environment to build their confidence while enhancing students' **learning and comprehension**.

Interpretive signs will help communicate scientific concepts in **multiple languages** to promote an inclusive school community. In addition, the natural environment will provide inspiration for creative and informational writing, readalouds, and **journaling** for all grades.



Early childhood students (K4–K5) will be encouraged to explore realistic fiction and practice **scientific storytelling** using plants and evidence of species interactions on the schoolyard as inspiration. They will develop their reading skills by participating in book walks and writing about things they observe outdoors to expand their vocabulary.



Lower elementary students (1st–3rd) will use the new schoolyard to develop their **descriptive language** skills as they engage all five senses to explore the green schoolyard. Children will be encouraged to read independently and aloud outdoors and may practice their **creative writing** with inspiration from nature as they observe native plants, insects, and varied textures found outdoors.

Upper elementary students (4th–5th) will develop a deeper understanding of complex vocabulary and continue to build their background knowledge that is important for reading comprehension in the calming green spaces. Children will use the outdoor spaces for **independent reading** and make observations to inspire nature-focused stories and **informative texts** such as brochures about native plants and pollinator species.

Middle school students (6th–8th) students will use the green spaces as alternative environments for classes, small group work, and presentations. They may dive into writing prompts related to the benefits of outdoor learning, nature, and environmental stewardship while the green spaces provide a relaxing backdrop for **nature-inspired poetry** and other creative expressions.

Our students deserve a space that allows them to appreciate and celebrate the outdoors. I am excited for students to be able to be in a space that allows them to appreciate the natural world and build love for being outside in green spaces.





Art Connections

The arts will come to life with the redeveloped schoolyard. Children will be encouraged to exercise their visual art skills through observational drawings and learn the different **components of art** including texture, line, space, and color. Students will be able to use the natural outdoor spaces to experience and better express their **visual and auditory senses** through art media.

Children will be able to learn through movement and experience as they explore the green space and find inspiration for art projects, creative writing, **dramatic play**, and poetry. Artistically designed posts celebrating the **diverse community and cultures** represented at Humboldt Park will be placed on the schoolyard. Natural elements may even become the subject of **art installations** created by students with the support of local artists.





Students will be encouraged to exercise their visual art skills through observational drawings and to create music outdoors with natural objects. These **immersive experiences** in nature will significantly support student development and help strengthen positive **shared experiences** with their community.

Humboldt Park encourages a **culturally responsive** environment. The redeveloped schoolyard will make Humboldt Park's public spaces accessible for all to enjoy. With the expansion of creative outlets outside of the school building, our students, families, and neighbors will have a chance to explore and create meaning during and after school.

Expanding a student's art and cultural experience is essential to making youth more **compassionate** to the wider world supporting our core values of respecting all people, valuing equality, and **celebrating diversity**.



Social Studies

In social studies, students explore themes of family, home, neighborhood, and community. Our school supports and celebrates its students through **community-building** activities that encourage children to consider their relationship between the environment and living things. Through these experiences, we aim to encourage a sense of pride and **stewardship** for the Earth.

Social studies introduces **early childhood** students (K4–K5) to the concept of community and our connection to the land. Beginning in Kindergarten, students learn to embrace their **unique identities** while also celebrating their friends' differences. This understanding sets the foundation for their exploration of the value of **different cultures**, and the impact of individuals and institutions on the world around them. Students will learn about **gardening** and the flowers that naturally grow in Wisconsin. Children will name the plants in their native language and build their knowledge together.

Students in **lower elementary** (1st–3rd) will extend their geography learning by studying important landmarks in their communities and drawing **connections** to new features on the schoolyard. Children may study the helpful **benefits of plants** and investigate themes of environmental justice, and **community engagement**.

In the **upper elementary** (4th–5th) grades, social studies instruction expands from students' local community to their city and state, the nation, and the world. As the curriculum shifts to focus on **Wisconsin and Milwaukee's history**, its major waterways, and landforms. Children will investigate our state's **indigenous plants** and trees growing on the schoolyard as part of their First Nations units of study.

Middle school students (6th–8th) will practice their **map and compass skills** by analyzing plans for the schoolyard redevelopment project and comparing them to the built project. Students will also participate in cultural fairs embracing and celebrating Humboldt Park's diverse, multi-cultural community. These concepts will support discussions of how individuals can work together to create **positive changes** in their communities.



Community Engagement

Humboldt Park School works to provide family and community engagement opportunities in a **safe and supportive climate**. Parents actively support our unique educational environment through participation in the SEC (School Engagement Council), the PTO as well as volunteering in classrooms and assisting with school-wide events and fundraisers.

Our staff encourages respecting, taking care of their school environment, and learning more about nature. We look forward to connecting family and community members to help support the **maintenance and stewardship** of the new green spaces and the ability to host fun, schoolwide events in a welcoming outdoor environment.

Not only will the students of Humboldt Park be able to enjoy the new vibrant green spaces, but the redeveloped schoolyard will be available for **community access** during out-of-school times. Collaboration with our **community partners** will enhance the opportunities to use the green spaces for events, classes, programming, and other activities to **extend learning** and engagement in the new green spaces outside of the regular school day. Families, **neighbors**, and community partners such as Nestling House, will be welcomed to use the schoolyard, enjoy the shade and new planted areas, and play in inspiring nature spaces.



We envision our families experiencing the space during **school events** and volunteering to help with maintenance and stewardship activities, where everyone can enjoy a calming, natural environment. These experiences will provide rich connections with the neighborhood and will bring additional opportunities for engagement, **relationship-building**, and a strong sense of support in our community.



Health & Physical Wellness

This schoolyard redevelopment project will provide all Humboldt Park students with increased opportunities for safe, healthy, and **inclusive play** everyday. Grassy imaginative play spaces, a variety of equipment options, multiple clearly marked **game zones**, and so much more will allow kids to more widely experience the many benefits of play.

Students will acquire much-needed motor skills in the green space which will allow them to run, skip, jump, dance, and play with **fewer injuries** than they experienced before the redevelopment. Children will learn to take turns, build patience, and follow rules as they practice **healthy risk-taking** and gain confidence through play and physical education classes on the redeveloped schoolyard.



With support from Playworks Wisconsin and our Junior Coaches, students will learn game rules and procedures, practice **turn-taking**, and participate in cooperative play in the gaga ball pit, basketball court, and soccer field. These revitalized facilities will support the play of multiple sports including soccer, basketball, volleyball, football, and softball with dedicated spaces to practice and develop skills. A traffic garden will teach our learners **bike and pedestrian safety**, supporting physical education standards and building vital life skills.



Students will participate in **creative and imaginative play** as they practice their balance when playing on the **agility pathways**, logs, and stumps placed throughout the schoolyard. Teachers from all grade levels will lead **team-building** activities outdoors and use the variety of seating and natural spaces for learning.

The **gardens** will continue to impact students and the community's lives by promoting healthy eating. The addition of bike racks will assist with the promotion of a healthy, active lifestyle.



Social-Emotional Well-Being

The holistic schoolyard redevelopment supports our vision that all students will grow and learn within a safe, respectful, and responsible environment. Playing outdoors in a safe space promotes **self-confidence** and self-worth.

All children will benefit from taking **brain breaks** and nature walks outdoors, enhancing their communication and **sportsmanship** skills while participating in classes, playing at recess, and enjoying the schoolyard after school hours.



Our students practice self-regulation and mindfulness activities every day. Fresh air, green space, and native planting areas will support creative **mindfulness activities**, encouraging students to connect to their environment through **sensory experiences** enriched with bright colors, scents, and textures. Children will be able to play outdoor musical instruments as an outlet of creative expression.



The sensory gardens will provide a space where students can **reflect**, develop independent skills related to managing their feelings, and reset. Having gardens will promote a **sense of peace** and calm while helping us raise healthy individuals and support our students' social-emotional learning and wellbeing.

Children in middle school will benefit from having dedicated gathering spaces that can be used for **socializing**, conflict resolution, and developing friendships.

Students in all grades will benefit from **movement breaks** outdoors, practicing **yoga** on an open grass field, and enhancing their communication skills through **turn-taking**, use of communication boards, participating in restorative circles, and spending time in nature.



Benefits of Green and Healthy Schoolyards

Nature Can Improve Academic Outcomes

Spending time in nature enhances educational outcomes by improving children's academic performance, focus, behavior, and love of learning.



INCREASED ENGAGEMENT & ENTHUSIASM

Exploration and discovery through outdoor experiences can promote motivation to learn:



IMPROVED BEHAVIOR

Nature-based learning is associated with reduced aggression and fewer discipline problems: 18, 19









ADDITIONAL RESEARCH ON THE BENEFITS OF NATURE AVAILABLE AT childrenandnature.org/research

SUPPORTING RESEARCH

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Green Schoolyards Can Provide Mental Health Benefits

Green schoolyards can enhance mental health and well-being and promote social-emotional skill development.



GREEN SCHOOLYARDS PROMOTE SOCIAL-EMOTIONAL SKILLS



SUPPORTING RESEARCH

www.nimh.nih.gov/health/statistics/prevalence/any-disorder-among-children.shtml ²Chawla et al. (2014). Green schoolyards as havens from stress and resources for resilience in childhood and adolescence. Health Place, 28, 1-13. ³Kelz et al. (2015). The restorative effects of redesigning the schoolyard: A multi-methodological, quasi-experimental study in rural Austrian middle schools. Environ Behav, 47(2), 119-130. ⁴Li & Sullivan (2016). Impact of views to school landscapes on recovery from stress and mental fatigue. Landscape Urban Plan, 148, 149-158. ⁵Roe & Aspinall (2011). The restorative outcomes of forest school and conventional school in young people with good and poor behaviour. Urban For Urban Gree, 10(3), 205-212. ⁶Bell & Dyment (2008). Grounds for health: The intersection of green school grounds and health-promoting schools. Environ Educ Res, 14(1), 77-90. ⁷Nedovic & Morrissey (2013). Calm, active and focused: Children's responses to an organic outdoor learning environment. Learn Environ Res, 16(2), 281-295.

ADDITIONAL RESEARCH USED FOR THIS INFOGRAPHIC AVAILABLE AT childrenandnature.org/gsybibliographies

C&NN recognizes that not all studies support causal statements.

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Green Schoolyards Encourage Beneficial Play

Natural areas promote child-directed free play that is imaginative, constructive, sensory-rich, and cooperative.



GREEN SCHOOLYARDS CAN SUPPORT DIFFERENT TYPES OF PLAY^{2,4,7,8}

DRAMATIC PLAY

Loose parts—such as sticks, stones, acorns & pinecones—engage the imagination.

PLAY Natural areas provide opportunities for children to explore.

SOLITARY **PLAY**

Areas under bushes or other nooks allow children to engage in alone time and contemplation.

CONSTRUCTIVE **PLAY**

Building things out of natural materials helps children learn hands-on skills.

LOCOMOTOR PLAY

Natural items such as logs and rocks can be carried. Looping paths allow walking, running and biking.

SUPPORTING RESEARCH

¹Rideout et al. (2010). Generation M2: Media in the lives of 8-18 year olds. Kaiser Family Foundation https://kaiserfamilyfoundation.files.wordpress.com/2013/01/8010.pdf ²Dyment & Bell (2008). Grounds for movement: Green school grounds as sites for promoting physical activity. Health Educ Res, 23(6), 952-962. ³Stanley (2011). The place of outdoor play in a school community: A case study of recess values. Child Youth Environ, 21(1), 185-211. ⁴Dennis et al. (2014). A post-occupancy study of nature-based outdoor classrooms in early childhood education. Child Youth Environ, 24(2), 35-52. ⁵Luchs & Fikus (2013). A comparative study of active play on differently designed playgrounds. J Adven Educ & Oud Learn, 13(3), 206-222. ⁶Acar & Torquati (2015). The power of nature: Developing pro-social behavior towards nature and peers through nature-based activities. Young Children, 70(5), 62-71. ⁷Chawla (2015). Benefits of nature contact for children. J Plan Lit, 30(4), 433-452. ⁸Cloward Drown & Christenson (2014). Dramatic play affordances of natural and manufactured outdoor settings for preschool-aged children. Child Youth Environ, 24(2), 53-77.

Green Schoolyards Can Increase Physical Activity

Green schoolyards can promote physical activity by offering a variety of active play options that engage children of varying fitness levels, ages, and genders.



SUPPORTING RESEARCH

¹www.cdc.gov/physicalactivity/data/facts.htm ²Dyment & Bell (2008). Grounds for movement: Green school grounds as sites for promoting physical activity. Health Educ Res, 23(6), 952-962. ³Barton et al. (2015). The effect of playground- and nature-based playtime interventions on physical activity and self-esteem in UK school children. In J Environ Health Res, 25(2), 196-206. ⁴Dyment et al. (2009). The relationship between school ground design and intensity of physical activity. Child Geogr., 7(3), 261-276. ⁵Brink et al. (2010). Influence of schoolyard renovations on children's physical activity: The Learning Landscapes Program. Am J Public Health, 100(9), 1672-1678. ⁶Mårtensson et al. (2014). The role of greenery for physical activity play at school grounds. Urban For Urban Gree, 13(1), 103-113. ¬Pagels et al. (2014). A repeated measurement study investigating the impact of school outdoor environment upon physical activity across ages and seasons in Swedish second, fifth and eighth graders. BMC Public Health, 14(1), 303.





Maintenance and Stewardship

Green infrastructure features require varying levels of maintenance and offer opportunities to engage youth in active environmental stewardship, raise awareness of environmental impacts, and make meaningful curricular connections. Some maintenance activities such as weeding, debris pickup, inspection of plant health, crop harvesting, watering, etc. can further engage faculty, students, parents, and the surrounding neighborhood in school activities and outdoor learning, while also sharing the responsibility of maintaining the new green space. It should be noted that generally, the school's Green Team will be responsible for additional maintenance needs.

To promote the longevity and active use of the redeveloped schoolyard, recommendations were made to provide features that match the maintenance capacity and planned curricular connections of the school and community. The following section provides a summary of seasonal and monthly maintenance needs for the school's new green features. Comprehensive maintenance plans will need to be developed in the project's detailed design phase to fully support the new elements.



Well-maintained green infrastructure and play spaces can help reduce the potential need for costly repairs.





Asphalt Removal

Ongoing/Monthly Considerations:

Depending on the groundcover replacement such as grass, woodchips, permeable pavement, etc., the replacement may require additional maintenance such as grass cutting, woodchip replacement, vacuuming, etc.

Seasonal/Annual Considerations:

Some asphalt areas at schools are used in winter as snow management locations. Confirming the seasonal use of the asphalt areas can help with determining the feasibility of asphalt removal and/or ways to adjust snow management.



Porous Groundcover

Ongoing/Monthly Considerations:

Debris and sediment washing into pavement pores can lead to clogging — monthly inspection is recommended to remove leaves, woodchips, and other debris. Also monitor for turf sections that need to be pinned down or replaced due to damage/heavy use.

Seasonal/Annual Considerations:

Reapplication or raking of the rubber pellets may be needed to keep the synthetic turf weighed down. Replacing sections of turf or re-securing to the perimeter edging by trained technicians.



Tree Plantings

Ongoing/Monthly Considerations:

Newly planted trees will require protection from children wanting to play around them for the first few years. Strategies such as temporary or permanent fencing, signage, or planting boxes can help allow the trees space and time to grow.

Seasonal/Annual Considerations:

Berries, leaves, sticks, and branches often fall from trees during spring or fall. The litter may not need to be actively managed. However, large amounts may need to be composted or discarded.



Native Plantings

Ongoing/Monthly Considerations:

Similar to raised bed gardens, native plantings will require ongoing weeding (weekly) as they mature. Determining who will be responsible (ideally multiple people/groups/classrooms) beyond planting is important, especially over summer months.

Seasonal/Annual Considerations:

Native plants are more resilient and require less ongoing maintenance as they mature. One to three years of weeding is required initially, but long-term expected maintenance is minimal.



Fundraising Targets

An important component of the conceptual planning effort was to develop plans that are feasible. Estimates of funding requirements were discussed throughout the planning effort in order to keep the designs within reasonable cost ranges. The following table of estimated costs are presented in terms of "fundraising targets" to better represent the approximate budgetary nature of the numbers.

It should be noted that the following funding targets represent conceptual, high-level estimates with many assumptions, not consultant or contractor bids based on detailed design work, which would be more accurate.

The following estimates are expected to vary from actual incurred expenses. However, significant consideration and review of the fundraising targets were provided from engineers, contractors, and school administrators with experience in schoolyard redevelopment projects.

Although the following fundraising targets are intended to incorporate reasonable cost expectations for schoolyard redevelopment, changes to the design, contracting requirements, or amount of in-kind contributions can significantly impact the following numbers either upward or downward.



It's ideal to raise enough funds to be able to complete the schoolyard redevelopment in one pass; however, in some cases, projects can take several years to be completed due to funding constraints.

Invitation for Support

We invite your enthusiastic review of this conceptual plan document and welcome any questions you may have on the schoolyard redevelopment. Please visit Reflo's website for status updates and how to donate to the schoolyard redevelopment project:



Conceptual Redevelopment Plan Fundraising Targets

	Арх	Apx. Fundraising		Apx. In-kind	
	Targets		Contribution		
Stormwater Green Infrastructure	<u> </u>	405.000			
Asphalt removal, sawcutting, mobilization, etc.	\$	185,000			
Soil, grass, and other porous resurfacing	\$	60,000			
Trees (and protective fencing)	\$	25,000			
Stormwater diversion from parking lot	\$	35,000			
Bioswales (native plantings and protective fencing)	\$	225,000			
Porous Pavement - Syn. Turf Soccer Field	\$	150,000			
Underground cisterns (2)	\$	160,000			
Engineering, surveying, and construction admin.	\$	55,000	,		
Facilities project management	\$	10,000	\$	28,000	
Continued Reflo project development support	\$	25,000	\$	25,000	
Project signage	\$	10,000	\$	7,500	
Demonstrations, workshops, tours			\$	5,000	
Water-focused curricular activities	\$	10,000	\$	10,000	
Vegetation establishment	\$	10,000	\$	5,000	
Stormwater Green Infrastructure Subtotal	<u>\$</u>	<u>960,000</u>	<u>\$</u>	<u>80,500</u>	
School Gardens & Healthy Food Access					
Raised bed gardens			\$	5,000	
School Gardens & Healthy Food Access Subtotal	<u>\$</u>	<u>-</u>	<u>\$</u>	<u>5,000</u>	
Recreational Improvements					
Gaga Ball pits (2) with ADA door	\$	10,000			
Asphalt crackfilling and striping	\$	50,000			
Tot lot improvements	\$	75,000			
Nature play areas (2) (embedded logs and stumps)	\$	100,000			
Recreational Improvements Subtotal	<u>\$</u>	<u>235,000</u>	<u>\$</u>		
Educational Elements					
Arts programming	\$	25,000	\$	5,000	
Musical instruments and sensory boards	\$	25,000			
Communications board	\$	5,000			
Outdoor classroom					
Surfacing	\$	25,000			
Seating	\$	25,000			
Amenities	\$	7,500			
Educational Elements Subtotal	<u>\$</u>	<u>112,500</u>	<u>\$</u>	<u>5,000</u>	
Other Site Improvements					
Bike parking equipment	\$	2,500			
Storage shed	\$	40,000			
Pathways and fencing	\$	25,000			
Schoolyard benches and other amenities	\$	45,000			
Other Site Improvements Subtotal	<u>\$</u>	<u>112,500</u>	<u>\$</u>		
Total Estimated Fundraising Target			ć	00.500	
Total Estimated Fundialsing Target.	- 노	,,120,000	5	<u>90,500</u>	



Project Timeline and Next Steps

Although there has already been a significant amount of time and energy invested in the schoolyard redevelopment project by Humboldt Park School and its partners, the compilation of this conceptual plan document realistically represents step one of a multiyear, major construction-focused redevelopment project.

The next phase of project development is fundraising, which is intended to conclude by the end of 2024. The scope of the construction is based on the funds obtained through budget allocations, grants, donations, and school fundraisers. Engineering, surveying, and

architecture firms are typically hired in fall to support the detailed design and permitting process. To minimize disruption to regularly scheduled school functions, it is preferred to conduct construction over a relatively short time frame in summer months.

Big changes like this project require a great deal of time, resources, and, most of all, commitment. Accomplishing this conceptual redevelopment plan is a major milestone itself. This plan shows the school's desire and ability to focus its efforts on meaningful outdoor education and healthy learning spaces for their students and community.



For information on how to support Humboldt Park School's schoolyard redevelopment:

Please go to Reflo's website: www.RefloH2o.com or send an email to: lisa.neeb@RefloH2o.com

Supporting Organizations



The Milwaukee Metropolitan Sewerage District (MMSD) is a regional government agency that provides water reclamation and flood management services for about 1.1 million people in 28 communities in the Greater Milwaukee Area. MMSD is a strong supporter of green infrastructure, with many available resources.



Milwaukee Public Schools is committed to accelerating student achievement, building positive relationships between youth and adults, and cultivating leadership at all levels. Many departments are engaged on an ongoing basis to support the multifaceted schoolyard redevelopment projects.



The mission of the Milwaukee Public Schools Foundation is to inspire and motivate the community, including philanthropic partners, businesses, families, and former and current staff and students in the support of Milwaukee Public Schools and the academic achievement of its students.



As a nonprofit, Reflo partners with Milwaukee-area schools, neighborhood associations, community garden groups, and local governments to promote sustainable water management such as green infrastructure through education, research, and the implementation of community-based water projects.



Community Design Solutions (CDS) is a funded design center in the UWM School of Architecture & Urban Planning (SARUP) that assists communities, agencies, civic groups, and campuses throughout Wisconsin. CDS provides preliminary design and planning services to underserved communities and agencies.



The Environmental Collaboration Office (ECO) strives to make Milwaukee a world class eco-city. ECO develops practical and racially equitable solutions that improve people's lives and the economy while working to protect and restore the natural ecosystems that support our long-term prosperity. ECO collaborates with the community, develop global partnerships, offer award-winning programs, and implement the Milwaukee Climate and Equity Plan.



The Green Schools Consortium of Milwaukee (GSCM) is a robust local network of schools and resource providers that are motivated to promote greener, healthier schools. Through bimonthly meetings and an annual conference, hundreds of local participants have collectively shared ideas, resources, and lessons learned.



Playworks' mission is to improve the health and well-being of children by increasing opportunities for physical activity and safe, meaningful play. Our team coaches youth, school staff, and out-of-school-time professionals to create great recesses, youth leadership opportunities, and infuse play into their curriculum. The Playworks team provides design advice to schools to ensure their new schoolyard is great space for recess, sports, and play throughout the school day.



The Fund for Lake Michigan (FFLM) provides grants to support organizations and communities committed to enhancing the Lake's health though projects with both immediate and long-term benefits. The FFLM has been a longtime partner of the green and healthy schools movement and continuously promotes its expansion.

STORMWATER GREEN INFRASTRUCTURE

Green infrastructure including bioswales, native plantings, and a synthetic turf field with an underground cistern beneath it will help to better manage stormwater on the school grounds, where it falls, improving the aesthetics, biodiversity, recreational facilities, and the health of local watersheds.



S ADAMS AVE

OUTDOOR CLASSROOMS

To help facilitate ecoliteracy and all of the sensory exploration that comes with outdoor learning, Humboldt Park would like to enhance their current outdoor learning spaces and build two additional outdoor classrooms, completed with seating options.



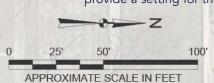
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IMPROVED ENTRANCE **CULTURAL ART AND PATHWAY** POSTS -**OUTDOOR STORMWATER WALKING PATH** MAIN ENTRANCE **CLASSROOM B** DIVERSION **EUCLID AVE** MUSICAL MUSICAL **INSTRUMENTS** BASKETBALL **INSTRUMENTS** NATURE PLAY E OHIO AVE COMMUNICATION **POSTS FOR** BOARD **AGILITY** TRAFFIC BIOSWALE **VOLLEYBALL NETS** ENHANCED PATHS GARDEN **BIOSWALE** OUTDOOR **POROUS RUBBER** CLASSROOM **KICK** SURFACE SYNTHETIC BALL UNDERGROUND **TURF FIELD** NATURE PLAY CISTERN **UNDERGROUND** BALL CISTERN RELOCATED TRASH BINS GAGA BALL STORAGE MINDFULNESS **NEW GATE** SHED GARDEN



MULTIPLE ARTS OPPORTUNITIES

There are many opportunities to include artistic elements throughout the schoolyard including art posts, murals, and educational signage to support the redevelopment project. The outdoor classrooms will also provide a setting for the performing arts.



S QUINCY AVE



Humboldt Park School would like to incorporate natural playscape elements that nurture childhood creativity, foster wonder and imagination, and inspire healthy risk-taking.



ADDITIONAL GREEN SPACE AND RECREATIONAL IMPROVEMENTS

Reducing the amount of asphalt on the school grounds is a central component of the redevelopment plan. Along with new green space, earthen mounds, and tree plantings, Humboldt Park would like to add a synthetic turf soccer field, colorful pavement markings, and gaga ball pits to support physical activity, team building, and cooperative play.

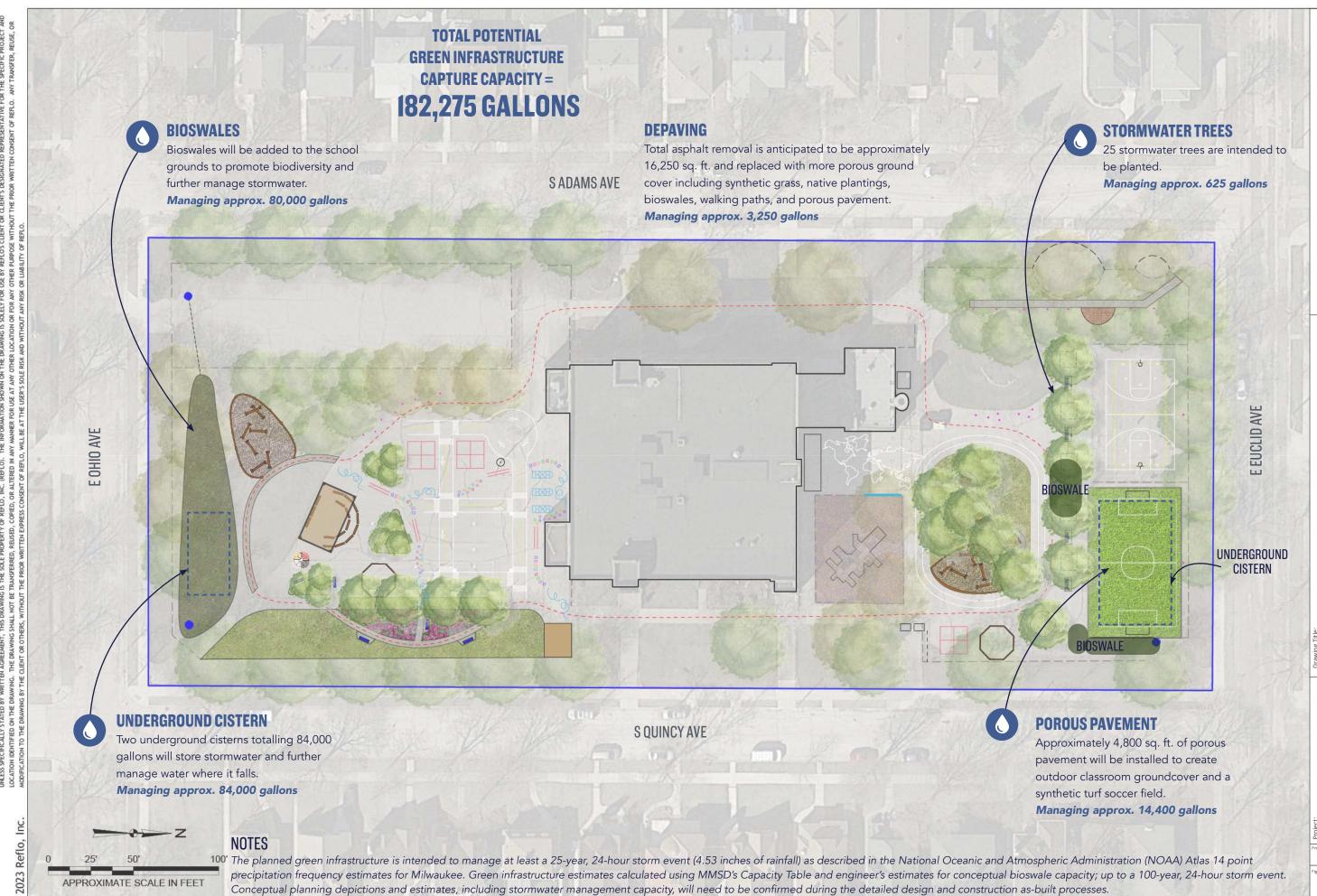


Humboldt Park School 3230 S Adams Avenue, Milwaukee, WI 53207

PROPOSED SITE PLAN

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2



STORMWATER GREEN INFRASTRUCTURE PLAN

Humboldt Park School 3230 S Adams Avenue, Milwaukee, WI 53207

C7.MPS.34

3



MURALS AND PAVEMENT MARKINGS

Humboldt Park would like to further activate the schoolyard through the visual arts. There are opportunities to add murals and colorful pavement markings to support sensory and curricular connections. Adding professionally developed murals with themes that reflect the schoolyard redevelopment and the school's diverse community can help to make the space feel more welcoming and connected while also providing an opportunity for local artists.



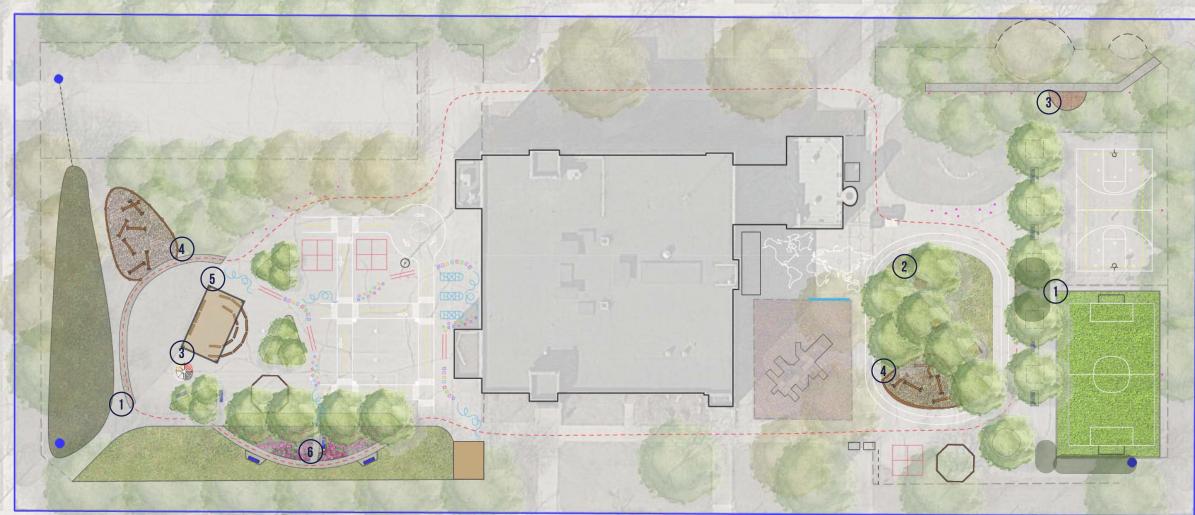


EDUCATIONAL SIGNAGE AND EXHIBITION

Looking at the redeveloped school grounds through the lens of exhibition, there are several opportunities to display educational themes through artistic means. Students can participate in the original creation of the signs and if panels are to be easily replaceable, portions of the signs could be refreshed with new thematic student art on a regular basis.

Potential Sign Themes

- 1) Bioswales and Stormwater Management
- 2 Stormwater Trees
- Outdoor Classroom Use Schedule
- Benefits of Nature Play
- Project Partners and Site History
- Native Plantings and Pollinator Species



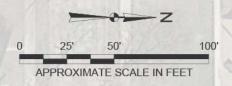
S ADAMS AVE

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OUTDOOR CLASSROOMS

The outdoor learning areas will serve as an important focal point in the schoolyard. These spaces can support classroom learning objectives, relaxation and mindfulness activities, and serve as an intimate space for smaller scale performing arts and community-based activities.







OUTDOOR SEATING

Currently there are limited seating options throughout the schoolyard. Seating is important for students that would like to socialize, quietly read or journal during outdoor free time, as well as for parents waiting for their children during dismissal. Benches also provide an opportunity for visual arts and sponsor recognition.

S QUINCY AVE





MUSICAL PLAY ELEMENTS

To enhance the learning experience and create a full sensory experience, Humboldt Park would like to add secured musical instruments to provide students the opportunity to hone their creativity by freely creating music on the schoolyard.



Humboldt Park School 3230 S Adams Avenue, Milwaukee, WI 53207

ARTS, OUTDOOR EDUCATION, AND COMMUNITY ENGAGEMENT PLAN

C7.MPS.34

4

For more information on how to support the

Humboldt Park School

schoolyard redevelopment project please contact:

Erik Connor - Principal

Humboldt Park School connerer@milwaukee.k12.wi.us

Ellie Salzwedel – 1st Grade Teacher

Humboldt Park School salzweem@milwaukee.k12.wi.us

Lisa Neeb - Green & Healthy Schools Program Manager

Reflo - Sustainable Water Solutions lisa.neeb@RefloH2o.com



For additional information please visit

www.RefloH2o.com