



CITY OF KIRKLAND

132ND SQUARE PARK MASTER PLAN

October 15, 2019
FINAL VERSION



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Table of Contents

ACKNOWLEDGEMENTS	2
CHAPTER 1 - OVERVIEW	4
Summary	5
Project Intent.....	6
CHAPTER 2 - EXISTING CONDITIONS	6
Site Analysis	6
Site Connections	7
Consistency With Other Plans	8
Environmental Studies	9
CHAPTER 3 - PROCESS	11
Public Involvement	11
Project Timeline	12
Public Open Houses	12
Survey Responses	13
SEPA Environmental Review.....	15
CHAPTER 4 - DESIGN ALTERNATIVES.....	16
Design Alternatives	16
Site Option 1 - Wandering Woodlands	17
Site Option 2 - Play Forest	19
Site Option 3 - Boulevard Stroll	21
CHAPTER 5 - THE PREFERRED ALTERNATIVE.....	23
Design Narrative	23
Programing/ Potential Users.....	25
Field Upgrades	25
Play Hill.....	26
Trail System	26
Parking	26
Lighting.....	26
Drainage.....	27
Vegetation	30
Other Improvements.....	31
Phasing & Implementation.....	34
APPENDIX 1: TRAFFIC IMPACT ANALYSIS.....	41
APPENDIX 2: 30% LIGHTING DESIGN	56
APPENDIX 3: CIVIL PLANS & COST ESTIMATE.....	61
APPENDIX 4: LANDSCAPE COST ESTIMATES	65
APPENDIX 5: SURVEY #1 RESULTS	70
APPENDIX 6: SURVEY #2 RESULTS	81

CHAPTER 1

Overview

1.01 - SUMMARY

132nd Square Park is a 9.76-acre community park within the City of Kirkland that has been used for recreation and enjoyment by neighbors and residents throughout community. The park is used for passive recreation and picnics, as well as formal and informal athletics including little league baseball, pee wee and youth soccer, and fast pitch softball.

This Master Plan originated when 132nd Square Park was identified as a site within the Totem Lake sub-watershed and Juanita Creek Basin that could be retrofitted with an enhanced stormwater system to manage stormwater runoff, prevent flooding, and enhance water quality within the entire basin. The stormwater retrofit project prompted the City to evaluate other improvements that could be constructed concurrently at the park to make it more responsive to community needs and aligning it with recommendations in the City's 2015 Parks, Recreation, and Open Space Plan (PROS Plan). Through the process of identifying desired improvements, a preferred design alternative for the park has been created.

The Kirkland Municipal Code requires that development of a park that incorporates lights, a building, addition of programmed recreation space, or the addition of parking must occur consistent with a Master Plan, which goes through a community review process. This Master Plan addresses park issues, potential users, new facilities, and programming. Public engagement occurred as part of the process of preparing this Master Plan to ensure that park improvements align with community desires and the City's vision.

1.02 - PROJECT INTENT

The purpose of this Master Plan is to describe planned, future improvements to 132nd Square Park. The Master Plan includes a preferred overall park design, a description of the public engagement and alternative designs that were considered by the community, a description of potential user groups and site planning, and an opinion of probable cost for the phased improvements that would occur to implement the Master Plan.

While some of the elements of this Master Plan may be



Figure 1 - 132nd Square Park's multi-use field (in the southern portion of the site) is proposed to be resurfaced with synthetic turf to allow for an expanded playing season.

phased, or implemented at a later date, design of the stormwater improvements is already underway. A grant awarded by the Department of Ecology identified the Kirkland 132nd Square Park as one of two locations for stormwater retrofit projects within the Totem Lake sub-watershed of the Juanita Creek Basin. After review of multiple sites, the park was selected because of the potential water quality and infiltration benefits. Construction of the stormwater improvements is planned to begin in spring of 2020, and will include a new drainage/irrigation system, new lawns, and new athletic synthetic turf surfacing. With the field improvements, new fencing, lighting and backstops will also be installed as part of the first phase of construction.

Beginning in 2013, City staff began analyzing the opportunity to combine a stormwater retrofit project with a park renovation. While stormwater improvements and basin planning are primary drivers for this work, there are benefits to coordinating the effort with other improvements, including:

- Efficiencies and cost savings associated with combining permitting and construction efforts.
- Optimization of the timing for turf replacement during restoration of the stormwater project construction area.
- Opportunity to increase levels-of-service without acquiring new park land.

Other benefits include upgraded amenities at the park. These amenities, such as synthetic turf and lighting, will allow for greater participation over longer hours as well as year-round/extended seasonal use of the park.

As part of the master planning process, the City and its consultants hosted a series of public open houses, conducted community surveys, and attended park events in an effort to solicit public input on future park amenities at 132nd Square Park.

As a result of initial public input, three design alternatives were prepared for public review and consideration. While there are differences in programming and amenities, each option includes lighting and new synthetic turf on the south field (Field 2), and restriping of fields for use by baseball, soccer, and lacrosse. The north baseball/softball field (Field 1) will not include lighting and will retain its natural turf but may include operational upgrades and necessary replacements of amenities such as the infield, backstop and irrigation.

As a result of city staff and public comment, a preferred

park design was prepared that incorporated key elements from all three of the design alternatives.

The timing is ideal for the inclusion of a synthetic turf field as the field will already be regraded to restore the site following the construction of the stormwater improvements. The synthetic turf would expand the access to the park and save the City nearly \$1 million in construction costs because the grading, drainage and restoration of the site is being funded through a grant from the Department of Ecology. Synthetic turf could triple the number of reservable hours of the field (as the field can be rented during inclement weather), which will address the current and projected level-of-service deficit for athletic fields. The installation of field lights at the turf fields will also increase the number of hours the fields can be used/reserved (as lighting of the field will allow it to be played later into the evening). Finally, restoration of the field with synthetic turf will allow activity on the field to resume sooner after large storm events than if the field were restored with natural turf.

Although residents in the City of Kirkland already have access to 38 fields, there remains unmet demand for park facilities. 132nd Square Park is designated as a community park which is intended to provide benefit to the entire City of Kirkland. The Master Plan engagement process specifically solicited input from immediate neighbors of the park to ensure local values were also addressed.

Improvements at the park will take place in multiple phases. The first phase is funded and includes a stormwater retrofit project constructed below the southern fields and restoration of these fields with one synthetic turf multi-purpose field and field lights, as well as minor park improvements such as new drainage, fencing and backstops. Subsequent phases of work include items such as a new restroom, new picnic shelters, and expanded play area, tree management and replanting, additional parking, and a drop off lane. The subsequent phases are dependent on available funding. The first phase of work is anticipated to commence in spring 2020.

CHAPTER 2

EXISTING CONDITIONS

2.02 - SITE ANALYSIS

132nd Square Park is one of Kirkland's seven community parks. Located in the Kingsgate neighborhood, it is 9.76 acres in area and is used for both passive and active recreation activities. The park is surrounded by single family residential uses, a church and a non-profit (Friends of Youth) thereby allowing it to function also as a neighborhood park for Kirkland residents within walking distance of the park. The park's primary entrance off of Northeast 132nd Street where a parking lot for 60 vehicles is present.



Figure 2 - Existing park amenities include two baseball fields, a soccer field, seasonal restroom, playground, reflexology path, reservable picnic shelter, and parking for 60 vehicles.

Currently, there are two baseball fields that are primarily used for Little League baseball and select softball, as well as a soccer field that is primarily used for youth leagues. There is currently no lighting to support evening games, and the grass fields are generally unplayable between early November through late February. Bleachers for spectators are located behind the infield of both baseball fields. All of these fields are available to rent.

A transportation study prepared by Heffron Transportation determined that peak weekday use of the field occurs when the field is hosting youth sports. Peak weekend use occurs on Saturdays when the fields are divided into multiple smaller fields to host Pee Wee soccer games.

In addition to the fields, 132nd Square Park has a year-round reservable picnic area. Within this area, there are four picnic tables, two of which are weather-protected under a community-built shelter. The entire picnic area can accommodate up to 75 people while the shelter can accommodate 16 users.

A variety of tree species can be found within the park including maples, cottonwoods, pines, and poplars. Many trees in this park are nearing the end of their lifespan and residents have reported failing limbs as posing a potential hazard to visitors and surrounding properties.

A seasonal restroom (open from March 1st through October 31st), playground, swings, walking trails, and reflexology labyrinth can also be found in this park.

2.02-SITE CONNECTIONS

Northeast 132nd Street is an east-west principal arterial street that extends along the north side of 132nd Square Park. It has one travel lane in each direction and curb, gutter, and sidewalk on each side. The street has a painted bike lane in each direction to the west of 132nd Avenue Northeast, with the prospect of extending the bike lanes to the east. There is no parking on either side of the street.

132nd Avenue Northeast is a north-south collector arterial that extends along the east side of 132nd Square Park with a posted speed limit of 35 mph south of Northeast 132nd Street and a 25 mph posted speed limit to the north. There is one travel lane in each direction, along with a curb, gutter, and sidewalk on each side. There is no parking on either side of the street.

The site is served by King County Metro (Metro) bus routes 236, 244, and 252. Route 236 provides two way service between the Kirkland Transit Center, Juanita, Kingsgate, and Woodinville. The other two routes provide weekday commuter service towards Bellevue and Seattle.

Crosswalks with pedestrian signals are provided across all legs of Northeast 132nd Street/ 132nd Avenue Northeast intersections. Additional pedestrian access to the park can also be found off of 132nd Avenue Northeast, Northeast 131st Street, and 131st Avenue Northeast.



Figure 3 - Access to the park by vehicle is provided via a parking lot off of NE 132nd Street, and by pedestrians/bikes off of 132nd Ave NE and two trails connecting to adjacent residential developments.



Figure 4 - 132nd Square Park is bordered by single-family residential and community uses.

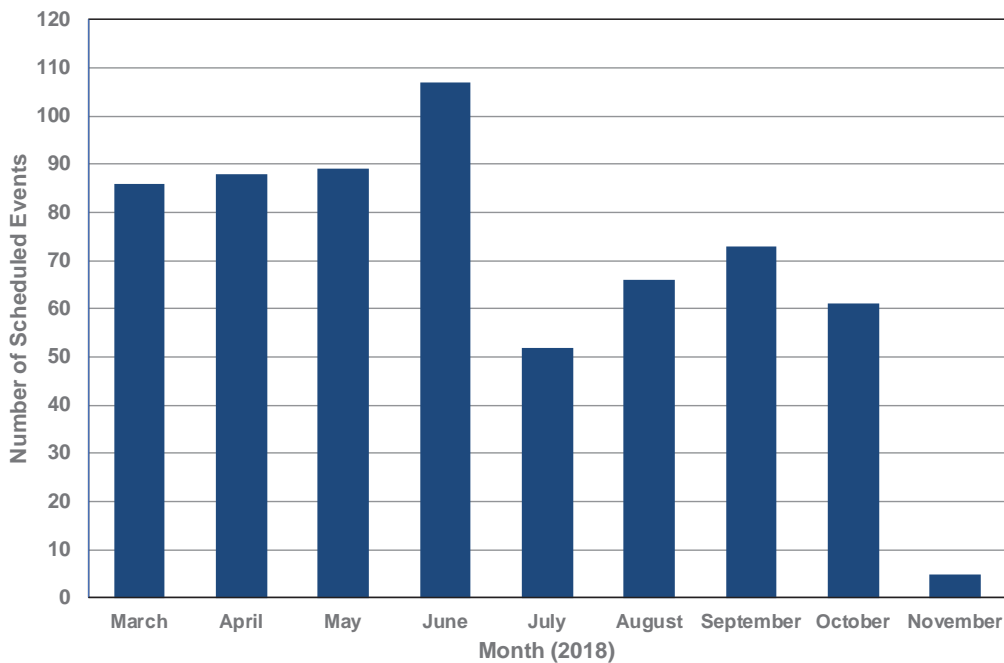


Figure 5 - Scheduled events at the park typically occur between the months of March-October, peaking in June, due to the seasonal limitations of the existing fields.

2.03 - CONSISTENCY WITH OTHER PLANS

COMPREHENSIVE PLAN

132nd Square Park is one of five parks (two community parks and three neighborhood parks) located within the Kingsgate neighborhood. Parks are included as part of the vision for this neighborhood, described in the Comprehensive Plan, “improved and well maintained park in each part of the neighborhood offer a variety of recreational opportunities. Trees are preserved or replaced to provide a consistent vegetative canopy throughout the neighborhood, connect greenbelt corridors and support wildlife.” The current Comprehensive Plan, titled “Kirkland 2035,” was adopted in 2015.

PARKS, RECREATION, OPEN SPACE (PROS) PLAN

The City’s PROS Plan supports and implements various elements of the Comprehensive Plan including Community Character, Land Use, Parks, and Capital Facilities elements.

The City’s PROS Plan is a six-year guide and strategic plan for managing and enhancing park and recreation services. As the City continues to grow, the plan prioritizes park development, as well as park acquisition, to maintain an adopted level-of-service (LOS) standard.

132nd Square Park is categorized as a Community Park.

Community Parks are sites generally 10-30 acres in size and include both passive and active recreation facilities. These parks can serve both a local population and a larger geographic area, and generally provide parking and restroom facilities.

Identified improvements to 132nd Square Park within the PROS Plan include renovating playfields with a daylighted stormwater feature to clean polluted runoff from the parking lot, and minor park enhancements and repairs.

The PROS Plan describes artificial turf as one solution to “allow more intensive use of field space, extend field seasons and reduce plan cancellations due to rain and muddy conditions.” The plan also states that improvements to irrigation and lighting would better serve users and extend playing seasons.

Various general goals and policies in Chapter 3 of the PROS Plan support the proposed improvements of 132nd Square Park, including the use of artificial turf. It also supports the development of a park master plan to achieve those goals. The most relevant policies and action items are highlighted on the following page on the right.

CAPITAL IMPROVEMENT PROGRAM (CIP)

The City's Capital Improvement Program (CIP) is a six-year plan that addresses funding for construction, repair, maintenance, and acquisition of major capital facilities and equipment. In 2015, the Parks and Community Services CIP included a playfield renovation project for 132nd Square Park, consistent with the PROS Plan. The CIP will need to be updated for the construction of this project for all phases. The 2017-2022 CIP included the following ongoing capital projects:

- **132nd Square Park Playfields Renovation:** Renovation of community playfields at park. Existing fields serve youth baseball/softball, soccer, and neighborhood activities. Improvements will include new drainage and irrigation systems, new infield surfacing, and new lawns, new fencing, and backstops. Installation of synthetic turf was added in the 2018 CIP update.
- **132nd Square Park Surface Water Retrofit Facility:** The 132nd Square Park Retrofit Facility will provide water quality treatment, flow control, and infiltration for approximately 48.5 acres of single-family residential and right-of-way area in the northeast corner of the Totem Lake Basin. This project will implement one of the two projects identified in the Totem Lake/Juanita Creek Basin Stormwater Retrofit Conceptual Design (Ecology Grant G1400024) which conducted planning and design work for capital and non-capital stormwater retrofit projects.

POLICY 2.2

"Develop park sites based on master plans, management plans, or other adopted strategies to ensure parks reflect local needs, community input, recreational and conservation goals, and available financial resources."

POLICY 6.1:

"Provide a citywide system of sports fields and programs to serve field sport needs of the community, in partnership with the Lake Washington School District, local sports organizations, and other regional providers."

2.04 - ENVIRONMENTAL STUDIES

TRANSPORTATION AND PARKING ASSESSMENT

A Transportation and Parking Assessment prepared by Heffron Transportation Inc., dated June 2019, discusses the potential transportation and parking impacts associated with the three design alternatives presented in this Master Plan.

The assessment concludes that transportation and parking impacts are primarily related to the new activities resulting from improvements to existing fields, which is a component of all three alternatives. Parking demand would increase in duration due to extended use in evening hours and winter months enabled by synthetic turf and lighting, however peak parking demands would not increase as the fields are already reserved during these times (i.e., the proposed increase in use/hours would only extend parking demands, not create additional parking demands during existing hours). Expansion of

ACTION ITEMS:

1. "Evaluate opportunities to include sports fields in the development of new community parks."
2. "Consider resurfacing existing or new fields to artificial turf to allow more intensive use of field space, extend field seasons, and limit play cancellations due to rain and muddy conditions."

the picnic shelter area may also generate new parking if it allows for multiple group reservations during the same time period.

The assessment notes that any new uses in the park would generate lower parking demand than current activities already taking place, such as pee-wee soccer. The assessment also states that while new parking would be generated in winter months, that parking would still be less than what is currently experienced in peak season.

The park currently has 60 spaces, which is a shortage during peak usage times. Design alternative three provides 60 additional spaces, which may alleviate parking constraints but would create an over-supply during the majority of the day.

The assessment provides recommendations to mitigate parking impacts including (1) providing a 30-minute gap between field events, (2) leasing spaces in the church parking lot located at northeast corner of Northeast 132nd Street and 132nd Avenue Northeast to allow for shared parking during peak events, and (3) limiting picnic shelter reservations to one group at a time when other peak youth activities are taking place.

Heffron's Transportation and Parking Assessment is included as Appendix 1 to this Master Plan.

LIGHTING

Tres West Engineers prepared a lighting system design for 132nd Square Park. The proposed lighting design includes lighting for the new field as well as lighting for the new parking area.

Proposed light fixtures will be energy efficient LED. Fixtures will also provide "full-cutoff" illumination, so no light will be directed upward or produce unwanted glare. Fixtures will be specified and strategically placed and oriented to direct light onto the field, similar for the parking areas, to minimize light spill away from these areas. Proposed quantity of poles for the field is (4), with a height estimated at 70'. Proposed quantity of poles for the parking area is (5), with a height estimated at 25'.

30% lighting system design plans are included as Appendix 2 to this Master Plan.



Figure 6 - Parking demand for 132nd Square Park's 60 parking spaces typically peaks when little league or pee-wee soccer tournaments are being held, a few weekends each summer.

CHAPTER 3 PROCESS

3.01 - PUBLIC INVOLVEMENT

Input and feedback from the public was integrated throughout the master planning process to assure improvements aligned with the community's values and desires for the park. While plans for the stormwater retrofit project were already underway, the City sought to involve park users, neighbors, community organizations, and other Kirkland residents in how the park should be enhanced once the stormwater infrastructure is installed. Four community events were held, which provided opportunities to listen to the public about needs and opportunities for the project and to solicit feedback from residents as designs alternatives were prepared.

- **March 20, 2019, Evergreen Hill Neighborhood Association** – City staff presented the main project objectives to the Evergreen Hill Neighborhood Association including the stormwater retrofit project and field replacement. Approximately 30 members of the public were in attendance.
- **March 26, 2019, 1st Community Open House** – City staff and their consultant conducted a community open house to introduce the project to the greater community and to solicit feedback on the types of park improvements the community desired at 132nd Square Park. Approximately 40 community members were in attendance.
- **May 12, 2019, Picnic in the Park** – City staff hosted an informational booth at the Picnic at the Park event to present the project objectives and answer questions from the public. Approximately 80 members of the public visited the booth.
- **June 20, 2019, 2nd Community Open House** – City staff and their consultant facilitated a second public open house where three design alternatives were introduced to the community. Dot exercises allowed the community to vote on their preferred design alternative as well as select favorite elements

from each design alternative that could then be harmonized in the preferred design alternative. Approximately 55 members of the public were in attendance and engaged with City staff at this event.

Two community surveys were also distributed to solicit public input, with questions directed at the types of activities and uses that were desired at the park. The feedback from the public was instrumental in developing the preferred design alternative, which combined elements from each design alternative, a direct outcome of the public process.



Figure 7 - Community preferences for design concept elements.

3.02 - PROJECT TIMELINE

The City initiated the Master Planning process in early 2019 to develop a preferred design and development plan for 132nd Square Park. The Master Plan process included outreach to stakeholders for their input, public open houses, and community surveys. The master plan process included the development of park design alternatives, distribution of a draft master plan for review, environmental analysis under the State Environmental Policy Act (SEPA), a public hearing before the City of Kirkland Parks Board, and formal adoption by the Kirkland City Council.

A geotechnical investigation and survey of the site was conducted in spring 2019 and preliminary design occurred between April and July 2019. Final development of this Master Plan and design of the stormwater system will conclude in December 2019, with construction planned to begin in spring of 2020.

3.03 - PUBLIC OPEN HOUSES

Two public open houses were held, on March 26, 2019 and June 20, 2019, to support the preparation of the Master Plan. The format included a presentation by the City and consultants, followed by breakout stations where groups rotated and explored topics such as synthetic turf, lighting, parking, and stormwater. At the second open house, three design alternatives were presented to the public, and attendees were asked to vote on their preferred design. A matrix was also provided depicting the elements of each of the three design alternatives, where participants could vote using a “dot,” on which elements and amenities of each individual design they preferred.

Park character, landscaping, lighting, park amenities, walking paths, and off-street parking were topics that generated public interest and comment. The input received at the public open houses assisted in shaping the preferred design alternative for 132nd Square Park presented within this Master Plan. Throughout the project and the numerous comments received, a few primary themes emerged:

- **Traffic and Parking:** Public comment at the outset of the project revolved around traffic and the lack of parking during peak park hours. The scope of the traffic impact analysis (TIA) was designed to examine these concerns. The traffic engineer concluded that the proposed improvements were not likely to have an adverse impact on traffic or parking at 132nd Square Park; however, the TIA confirmed there was insufficient parking during

peak hours. Peak parking demands for Little League and pee-wee soccer would continue to occur on weekends. However, the input received on the three design alternatives illustrated a preference for the addition of 20 parking stalls (Option 2).

- **Park Lighting:** All three design alternatives include field lighting. However, the hours or duration of the field lighting have yet to be determined. Field lighting continues to be studied, but the primary concern voiced by the community was to limit field lighting to when the fields are in use. Lighting for park security was also desired. Fields will not be lit when parks are not open (most Kirkland parks are closed between 11pm and dawn).
- **Vegetation and Ecosystem:** Comments included concerns about tree management and replacement, need for environmental review, downstream impacts, and soil stability.
- **Park Amenities and Programing:** The users of 132nd Square Park value the existing uses at the park and did not want to see any amenities removed from the park. There were also a few neighbors who did not want to see any additional amenities/programming at the park due to concerns over increased traffic/use of the park negatively impacting the character of the park. There was a strong desire to maintain walking trails/paths, the reflexology labyrinth, the community built picnic shelter, and the play hill.

3.04 - SURVEY RESPONSES

Two surveys were prepared and distributed to park users and members of the community who were unable to attend the community open houses.

SURVEY 1

The goal of the first community survey was to learn more about how residents currently use the park and priorities for improvements. The survey included five questions and received 54 responses. Participants were also able to write in their own responses (other) when not selecting one of the identified choices. Responses are summarized below, and the full results are included as Appendix 5 to this Master Plan:

- **Q1. How do you currently use the park? You may select more than one.** Out of 48 respondents, “walking” received 37 votes (77%), followed by “playground” with 25, and “picnics” with 19.
- **Q2. What additional features would you like included as part of the park? You may select more than one.** Out of 45 respondents, “Tree Care and Maintenance” received 23 votes (51%), followed by “Other” with 17, and “Better Restrooms” with 15.
- **Q3. How do you get to the park?** Out of 48 respondents, “Walk” received 43 votes (90%), followed by “drive” with 15, and “Bike” with 2.
- **Q4. The City is installing artificial turf and field lighting on the fields. To me, the most important consideration in adding synthetic turf and field lighting is...** Out of 33 respondents, “Lighting Effects for Neighbors” received 17 votes (52%), followed by “Increased Use of the Fields” with 7 votes, and “Safety” with 5 votes.



Figure 8 - Community members share their concerns over field lighting at the second community open house held on June 20, 2019.

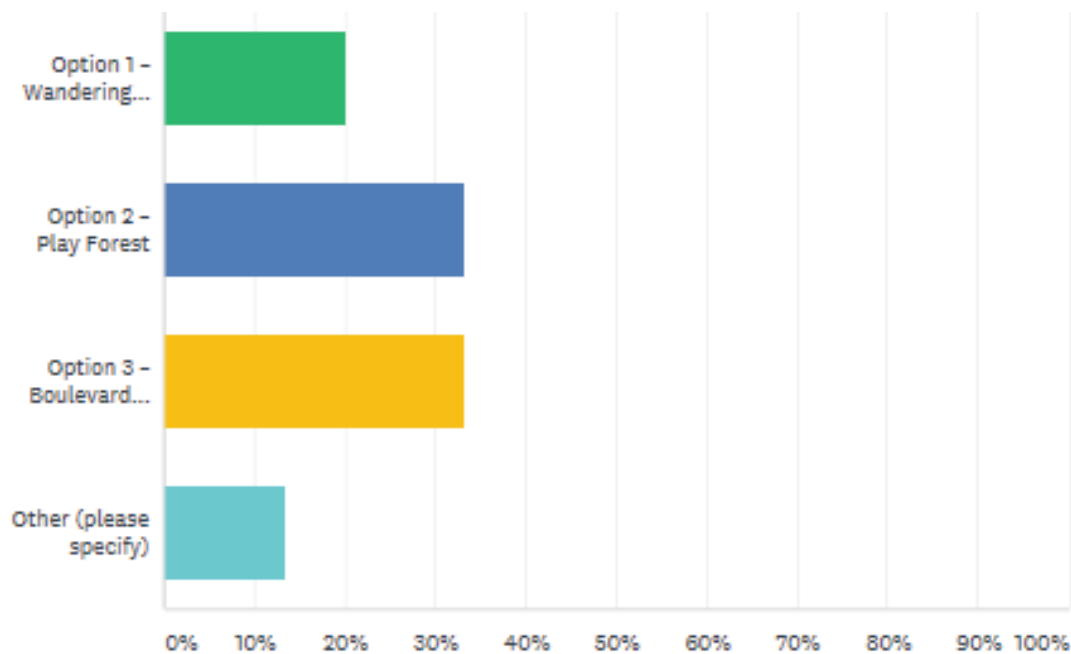


Figure 9 - Survey feedback on the three design alternatives.

SURVEY 2

After the design alternatives for the park were prepared and following the second community open house, a second online survey was developed for distribution. The results of the first online survey demonstrated that a greater share of park users in the immediate neighborhood had responded to the survey, as opposed to the athletic organizations that use the existing ball fields. With the second online survey, the City endeavored to ensure that the survey was distributed to all park users. The survey included four questions that sought to identify a preferred park design and determine which individual amenities within each alternative were preferred. Responses are summarized below, and the full results are included as Appendix 6 to this Master Plan:

- Q1. Please review the three concepts and vote on which one appeals most to you.** Out of 15 respondents, design Option 2 - "Play Forest" received 5 votes (33%), Option 3- "Boulevard Stroll" received 5 votes (33%), Option 1 - "Wandering Woodlands" received 3 votes (20%), and "Other" received 2 votes (13%).
- Q2. Please review the above included park amenities and vote on which design approach you prefer for each amenity.** Overall, amenities from Option 2 - "Play Forest" were preferred, though the picnic shelter design in Option 1 received one more vote than Option 2, and the storage building from Option 1 was preferred by 3 votes.
- Q3. What level of parking expansion do you prefer?** The parking expansion in Options 2 and 3 were evenly preferred.
- Q4. What is your largest remaining concern regarding field lighting?** Similar concerns to those shared during the community open house including light pollution and light spill over were received.

3.05- SEPA ENVIRONMENTAL REVIEW

Environmental review was performed for this Master Plan document, as required under the State Environmental Policy Act (SEPA), in the form of a SEPA checklist. The SEPA checklist covers all improvements identified within the preferred alternative of this Master Plan.

The project is proposed to be completed in phases, with the first phase of work anticipated to commence in Spring 2020 which will include the stormwater retrofit project constructed below the southern fields and restoration of these fields with one synthetic turf multi-purpose field and field lights, as well as minor park improvements such as new drainage, fencing and backstops. Subsequent phases of work include items such as a new restroom, new picnic shelters, and expanded play area, tree management and replanting, additional parking, and a drop off lane and will be implemented as funding becomes available.

A threshold determination has not yet been issued by the SEPA designated official. Comments received on the threshold determination will be summarized in this section once available.

CHAPTER 4

Design Alternatives

4.01 - DESIGN ALTERNATIVES

Three design alternatives were prepared to depict what the full build out of the park could look like and to allow for the City to plan for and implement park elements as funding becomes available. The three design alternatives were developed and reviewed through a public process including stakeholder meetings, surveys and open houses.

The matrix below shows how each amenity varies across each of the three options. Synthetic turf and park lighting were common elements of all options. A preferred alternative was prepared that combines elements of each alternative. The key elements of the preferred alternative are discussed in Chapter 5.

INCLUDED PARK AMENITY	OPTION 1 - WANDERING WOODLANDS	OPTION 2 - PLAY FOREST	OPTION 3 - BOULEVARD STROLL
Parking	60 stalls total (no additional parking stalls added) \$	80 stalls total (20 parking stalls added) \$\$	120 stalls total (60 parking stalls added) \$\$\$
Multi-Use Synthetic Field	✓	✓	✓
Park Lighting	✓	✓	✓
Restroom	Restroom remodel	New restroom	New restroom
Play Hill	Informal feature	Structured feature	Secondary element
Picnic Shelters	Combined with play area	Tucked along forest edge	Tucked under trees
Expanded Play Area	Create a "central gathering space" in the upper level	-	Play fountain
Urban Forest Concept	Native forest	Arboretum collection	Multiple allées
Storage Building	Existing, existing location	Medium size, at MU Field level	Large size, at MU field level
Disc Golf	3-holes	Not included	Not included
ADA & Accessible Pathways	✓	✓	✓

Figure 10 - Comparison Matrix of Design Alternatives

4.02 - SITE OPTION 1 - WANDERING WOODLANDS

NARRATIVE

The Wandering Woodlands alternative features a paved gathering circle containing four picnic shelters that look out upon an expanded play area. The gathering circle is centrally-located to create viewsheds extending to the playfields, woodlands, and adjacent informal play hill located to the northwest of the circle. Another hill slopes down from the southeast of the circle towards the playfields, forming a small natural amphitheater and providing further opportunities for hill play and grass seating to view sports games.

The woodlands are a native urban forest composed of species native to the Pacific Northwest. Native urban forests contribute to a better sense of place for uses of the park and serve as habitat for native birds, pollinators and other species. Paths wind through the woodlands, providing ample strolling opportunities. This alternative features a three-hole disc golf course in the northwest section of the woodlands, with care taken that the tossing ranges do not overlap with walking paths or other programmed uses. The Wandering Woodlands alternative features a labyrinth and reflexology circle.

Certain elements are retained; the parking lot would remain in-place and retain its current 60-stall capacity. The restroom would be remodeled and remain in-place. The existing storage building by the playfields would also be retained. Like the other design alternatives, the Wandering Woodlands features ADA-accessible pathways and ADA access to the playfields. This design is the least expensive of the proposed alternatives.

INCLUDED SITE AMENITIES:

60 stalls (no parking expansion)

Restroom remodel

Informal play hill

Picnic shelters combined with play area

Expanded play area

Urban forest - native

Disc golf (3-holes)

WANDERING WOODLANDS

Site Option 1



4.03- SITE OPTION 2 - PLAY FOREST

NARRATIVE

The Play Forest alternative would expand the parking lot from 60 spaces to 80 spaces. Due to the parking lot expansion, a new restroom facility is depicted and more structured access to the playfields would be provided. Like the other design alternatives, the Play Forest would feature ADA-accessible pathways and ADA access to the playfields. A medium-sized storage building would be provided at multi-use field level.

The Play Forest alternative features a more structured play hill with ADA-accessible pathways winding up it, culminating in a small paved area at the top. A second play hill is depicted southeast of the parking lot and restroom facility, overlooking the turf playfields. This hill opens up into a flat lawn area adjacent to the playfields for unprogrammed play, gathering, and picnic opportunities. Expanded playground areas overlook the playfields, maintaining an open viewshed to both play hills and picnic shelters located to the west. This design alternative would include three picnic shelters spaced throughout a winding path tucked along the forest edge. Viewsheds from all picnic shelters are maintained to the playground areas, and visitors may choose shelters with views to the playfields, playhill, or forested area.

ADA-accessible pathways would meander throughout the site, providing ample strolling opportunities. The western quadrant of the site would cater to more passive, open-ended recreation and would feature a Play Forest containing an arboretum collection of native and carefully-selected species from around the world that thrive in Pacific Northwest conditions. A labyrinth and reflexology circle are depicted in a quiet southwestern corner of the site.

INCLUDED SITE AMENITIES:
80 Parking stalls (20 stalls additional)
New restroom
Play hill - Structured Features
Picnic shelters - tucked along forest edge
Urban forest - arboretum collection
Storage building - medium size
No disc golf

PLAY FOREST Site Option 2



4.04 - SITE OPTION 3 - BOULEVARD STROLL

NARRATIVE

The Boulevard Stroll alternative features a maximized parking area, adding 60 stalls to bring the total number of parking stalls to 120. Due to the parking expansion, new restroom facilities are proposed. Like the other design alternatives, the Boulevard Stroll would provide ADA-accessible pathways and ADA access to the playfields. This design would include a large storage building at the multi-use field level.

The Boulevard Stroll alternative features three loosely-structured zones that would accommodate active, active/passive, and passive uses. Similar to the other proposed alternatives, the Boulevard Stroll would provide expanded playground areas that maintain viewsheds out onto the playfields. The playground area would also feature a small play fountain for use during the summer months. The playground areas are directly adjacent to the parking lot and restroom facilities, allowing for easy access to park amenities. South of the playground areas would be a small play hill, designed as a secondary element, which would open up into an open, unprogrammed play/lawn area south of the playfield.

The Boulevard Stroll alternative features four picnic shelters spread throughout the south west region of the site and tucked under the trees. The shelters would be situated in both more active and more passive spaces, thereby giving park users a choice of experiences. Several walkways would wind through the site; in the northwest corner park users would have the option of wandering through a labyrinth with reflexology paving. Tree plantings would form multiple rows of trees that line the paths. The Boulevard Stroll is the most expensive of the proposed alternatives.

INCLUDED SITE AMENITIES:

120 Parking stalls

New restroom

Play hill - secondary element

Picnic shelters - tucked under trees

Urban forest - multiple allées

Storage building - large size

No disc golf

BOULEVARD STROLL

Site Option 3





CHAPTER 5

THE PREFERRED ALTERNATIVE

5.01- DESIGN NARRATIVE

The design process to arrive at a preferred alternative began with a thorough review of community input from public meetings and written comments, as well as both in-person and online surveys. Extensive input was gleaned from a public meeting when three alternative park design options were presented; from this, the preferred alternative was designed using a combination of the most preferred elements of the Wandering Woodlands and Play Forest alternatives. The major preferred elements of the Wandering Woodlands were the informal play hill and the centralized, circular gathering space that combined the picnic shelters with the expanded play areas. The major preferred elements of the Play Forest were the expanded 80-stall parking lot and the overlook play hill sloping down toward the play fields. Looping walking paths and an expanded play area were commonly favored in both plans.

With this information in mind, the formal design process began by noting the locations of major fixed elements such as the parking lot and play fields on trace paper. Loose bubble diagrams and movement/ flow diagrams were prepared to explore the intersections of spaces, uses, and user experiences. The design team experimented with the locations of major elements such as the play hill, the overlook play hill, the central gathering circle, the picnic shelters and playground area, and the labyrinth and reflexology circle. User needs and experiences – such as the ability to simultaneously supervise children in the play areas while taking a quiet walk around the park perimeter or using other programmed spaces – drove the design.

Four major programmatic zones emerged from this process: Social, Play, Passive, and Open/Unprogrammed Lawn zones. The locations of these zones were driven

by user needs/desires, existing features and facilities, and existing topography and vegetation. The design's spaces were organized from active to passive as one moves throughout the site; the zones transition loosely from active in the northeast portion of the site to passive in the southwest portion of the site. Transition spaces between these zones were designed to tie the spaces together and lend a more cohesive narrative for the visitor as he or she moves around the park. Sight lines were diagrammed from each zone to ensure the design was achieving desired visitor experiences. The repetition of forms and natural landscape elements throughout the site provide cohesive visitor experience, and emphasis on natural landscape play elements such as berms, hills, and boulders will lend the park an informal, multi-use, neighborhood park feel.

DRAFT PLAN



INCLUDED PARK AMENITY	OPTION 1 - WANDERING WOODLANDS	OPTION 2 - PLAY FOREST	PREFERRED ALTERNATIVE
Parking	60 stalls total (no additional parking stalls added) \$	80 stalls total (20 parking stalls added) \$\$	80 stalls total (20 parking stalls added) \$\$
Multi-Use Synthetic Field			
Park Lighting			
Restroom	Restroom remodel	New restroom	New restroom
Play Hill	Informal feature	Structured feature	Informal feature
Picnic Shelters	Combined with play area	Tucked along forest edge	Combined with play area
Expanded Play Area	Create a "central gathering space" in the upper level	-	Create a "central gathering space" in the upper level and additional natural play features
Urban Forest Concept	Native forest	Arboretum collection	Native forest
Storage Building	Existing, existing location	Medium size, at MU Field level	Medium size, at MU Field level
Disc Golf	3-holes	Not included	Not included
ADA & Accessible Pathways			

Figure 11 - Amenities Within Preferred Alternative Using a Combination of Options 1 and 2

5.02 - PROGRAMMING / POTENTIAL USERS

The park currently supports a variety of active, passive, programmed, and unprogrammed uses. The park contains programmed amenities such as playfields, a playground, picnic facilities, and walking paths, as well as unprogrammed spaces such as open grass lawns, a grass slope, and open areas with varying tree cover. According to survey responses, the most common park uses include organized and unorganized sports, playground use, walking, picnics, sledding, open play, dog walking, and enjoying nature.

Many of these uses and use types overlap; this has been noted by residents to create a positive park atmosphere and experience that they wish to carry through to the new park design. The park's ability to simultaneously support a broad variety of uses draws many different people from around the neighborhood and community. Park users encompass all ages; including but not limited to families, retirees, young and school-age children, teenagers and young adults, and playfield users of all ages, including pee-wee players. By featuring a variety of open-ended, programmatic, interactive, and multi-use zones, the new park design works to maintain the broad diversity of users who enjoy the park.

5.03 - FIELD UPGRADES

In order to facilitate year-round use of the fields, one of the key elements of the preferred alternative is to upgrade the grass to turf. The turf could expand access to the park by tripling the number of rentable hours of the field, and save nearly \$1 million in construction costs because the grading, drainage and restoration of the site is being funded through a grant from the Department of Ecology. The use of artificial turf will extend field seasons and reduce event cancellations due to rain and muddy conditions. Lighting will be added to the fields, increasing the number of hours the fields can be used and reserved. Fencing will be installed around the synthetic turf field to protect it from dogs or other animals.

5.04-PLAY HILL

Among the most popular elements within 132nd Square Park are the hills on the west side of the fields. These hills serve many functions and act as natural play features, picnic grounds, and spectator seating for sporting events. The proposed design alternative not only incorporates the hills, but expands upon them to accommodate further opportunities for play, sledding, kite flying, and sports viewing.

The design proposes two main hill features, and one secondary hill feature. The two main hill features are a hill in the northwest section of the site, that overlooks the play and picnic areas within the central gathering circle, which will allow visitors to gaze down to the playfields. The hill is shaped to partially wrap around the central gathering circle, making it function as a connected element to the play area and adding to park cohesiveness through repetition in form. This hill will feature an embankment slide and some boulder play embedded into the grass for added informal play and seating.

The second major hill overlooks the playfields, wrapping around the eastern edge of the central gathering circle to the entrance/parking lot to the north and the walking path to the south of the site. This multi-functional hill will serve as a natural amphitheater in which to picnic and watch sporting events as well as provide for open-ended play. This hill will feature slopes for open-play in addition to rolling, grass amphitheater-style “steps” to accommodate picnicking and sports-viewing, and several boulders strategically placed into the hillside for open-ended play and seating. Directly east of the central gathering circle is a retaining wall over which a climbing wall is proposed to add an additional element of play and fun way for kids to access the playground spaces on the central gathering circle.

The secondary hill elements are located to the west of the upper play hill in the northwestern portion of the site. A series of smaller, multi-height berms transition from the hill into a more passive, wooded area of the park. These grassy berms are natural-landscape elements that will provide open-ended play and a unique park experience. The berms closer to the wooded area will be loosely planted with trees as they transition towards the larger hill, to provide both shaded and sunny experiences and help further serve as a transition zone between park activity types. There will be an ADA pathway winding through the berms and connecting to existing pedestrian park access, so visitors of all abilities may enjoy this landscape.

5.05-TRAIL SYSTEM

There is currently a trail system meandering through 132nd Square Park. A variety of users frequently walk this trail system and it is a key aspect of the character of the park. The proposed design features an ADA-accessible trail system that weaves through the vegetation, creates circulation between the playground, reflexology area, and the expanded picnic areas, and loosely replicates the forms of design elements to lend the site a cohesive, tied-together character. Where possible, existing pathways will be maintained and will tie into new pathway systems to form cohesive walking loops for connections and meandering.

5.06-PARKING

The existing parking lot contains 60 stalls. According to the parking study conducted by Heffron Transportation, adding an additional 20 spaces would accommodate most weekday evening parking demands, although parking during Saturday morning Pee Wee Soccer may still be constrained during surges occurring between consecutively scheduled games. Public input through meetings and surveys concluded that the preferred design proposal should include an additional 20 stalls (or 80 parking stalls total), as well as a drop-off/pick-up area for cars.

5.07-LIGHTING

Currently, there are no lights in the park, which severely limits the use of the fields. Through the online survey, 52 percent of respondents answered that “light effects for neighbors” was the most important consideration in adding lighting.

The proposed lighting design includes lighting for the new field as well as lighting for the new parking area.

Proposed light fixtures will be energy efficient LED. Fixtures will also provide “full-cutoff” illumination, so no light will be directed upward or produce unwanted glare. Fixtures will be specified and strategically placed and oriented to direct light onto the field, similar for the parking areas, to minimize light spill away from these areas. Proposed quantity of poles for the field is (4), height estimated at 70’. Proposed quantity of poles for the parking area is (5), height estimated at 25’.

5.08- DRAINAGE

Park Drainage: The Park is located within the Totem Lake sub-watershed of the Juanita Creek Basin. Redevelopment of the park will trigger stormwater requirements for flow control, water quality, and onsite Low Impact Best Management Practices (BMPs). Accordingly, the stormwater design will conform to the 2016 King County Surface Water Design Manual (KCSWDM) which has been adopted by the City of Kirkland with amendments. Runoff from the expanded parking lot, synthetic turf field, playground and community picnic shelters will be collected and treated to remove pollutants prior to infiltrating into the site subsoils through an infiltration system located under the existing field. More than 91 percent of the total runoff from the redeveloped park will be infiltrated. Controlled overflows from the infiltration system will discharge into the public storm system in 132nd Ave NE. Additionally porous asphalt concrete walkways are proposed to disperse stormwater from the walking trails into the subsoils.

Currently, the playfields at 132nd Square Park become unusable during wet weather due to poor drainage. Redevelopment of the two southern fields into one multi-purpose synthetic turf field will also include under drains to facilitate adequate drainage on the field.

Regional Drainage: This site has been chosen as the location for a stormwater retrofit project to provide runoff treatment and infiltration of stormwater from approximately 48 acres of upstream developed area. This stormwater retrofit project funded by Ecology will maximize treatment and reduce flows, while maintaining existing park uses. A regional stormwater storage/infiltration system will be located beneath the new synthetic turf playfield and will discharge controlled flows back to the existing storm system within 132nd Ave NE. A treatment system will be added to filter the stormwater from the upstream area (48-acres), the parking lot, and the synthetic turf field. The regional stormwater project will have a storage volume of 73,855 CF when completed.





5.09 - VEGETATION

The vegetation that can be found in 132nd Square Park supports the diversity of Pacific Northwest native species. More than 100 trees are scattered throughout 132nd Square Park, enhancing the park's unique character and providing different programmatic functions, such as providing natural shade and buffering.

The Master Plan supports a diverse mixture of native Pacific Northwest species that provide natural habitat for birds, pollinators and other native species, in addition to promoting a sense-of-place within the Pacific Northwest. New and existing trees will be used strategically as design elements to provide natural buffers against the edges of the site, as shade canopies, and as privacy screens for more secluded, passively-programmed natural areas.

According to survey results, tree care and maintenance raised the greatest public concern, as the park currently

contains trees reaching the end of their life cycles that may pose a risk for park users and neighbors. Following consultation with an arborist, hazardous and unhealthy vegetation will be identified and replaced to ensure the overall quantity of trees is maintained. Additional trees will be planted where needed to support the programmatic functions of the Master Plan, which features more trees than what currently exist at the park to provide for shade, buffering, and to create quiet natural areas. Healthy trees are recommended to remain where grading does not disturb critical root zones, particularly in buffer zones along the site boundary. A complete phased tree removal and replacement will evolve through more public input as the plan develops.

TREE RETENTION CONCEPT PLAN



5.10-OTHER IMPROVEMENTS

The park currently contains a restroom facility, storage shed, a picnic shelter and picnic tables, and playground. Roughly 35 percent of survey respondents noted they would like to see restroom improvements. The proposed design includes the construction of a new restroom facility due to the dislocation of the existing restroom that will occur as a result of the parking lot expansion. The ADA-accessible restroom will be located within easy access of the parking lot and playfields and will be available for year-round use.

Participants at the June 20, 2019, public meeting responded favorably to having a centralized gathering circle which would contain an expanded playground and picnic shelters. This circle will be located so that park visitors may simultaneously watch children on the playground, upper play hill, and the playfields. An ADA-accessible walking pathway will surround the circle.

Roughly 24 percent of survey respondents said they wanted an expansion of the existing playground. The proposed design includes a playground expansion that features play equipment in addition to natural play elements and a small play fountain for use during the summer months. The proposed design includes the addition of two new picnic shelters, bringing the total number of picnic shelters to three, to accommodate the popularity of picnicking at the park. The existing shelter will remain in-place, and the other two shelters will be positioned to create a social and connected space between all three shelters, to accommodate larger groups or events, or simply provide an atmosphere that may be conducive to sociability. Boulders will be incorporated around the edges of the picnic shelters, to serve as informal, multi-use play and seating elements, provide a loose definition of the picnic shelter area, and connect to the reflexology circle. The picnic shelters will be at the outer edge of a central gathering circle and will have views to the playground, upper and lower play hills, and playfields.

A labyrinth, to enhance passive use of the park, is proposed in the new design. The labyrinth is located in the southwest corner of the site, surrounded by denser trees, to provide opportunities for quiet reflection and meditation. The labyrinth design and relocation of the reflexology will be the basis for a Call for Artists for the 1% for Art program. An area where the art would be located should be identified in collaboration with Parks and Community Services Department staff so it fits seamlessly into the park's overall design.

There is an existing reflexology circle in the central portion of the park, between the play area and the parking area. It will be retained and carefully moved southwest of the central gathering circle to promote its use and help further activate the space. Boulders will be loosely placed around it, connecting into the picnic shelter area of the gathering circle and embedded down the side of the southern hill overlooking the playfields.

The storage shed will be enlarged to suit the needs of the playfields.





LOOKING WEST TO PLAY AND GATHERING AREA

5.11 - PHASING & IMPLEMENTATION

The Ecology-funded Stormwater Retrofit project provides an opportune time to upgrade 132nd Square Park, as the Stormwater Retrofit project will disturb nearly the entire area of the southern two fields and the grant funding includes the complete restoration of this space. The Park improvements are envisioned to occur in phases; the initial phase includes the Stormwater Retrofit project and the synthetic turf field. Subsequent phases include the remaining park improvements such as the expanded parking lot, new restroom, new playground, additional picnic shelters, walking trails and other amenities from the preferred alternative. These subsequent phases are dependent on available funding.

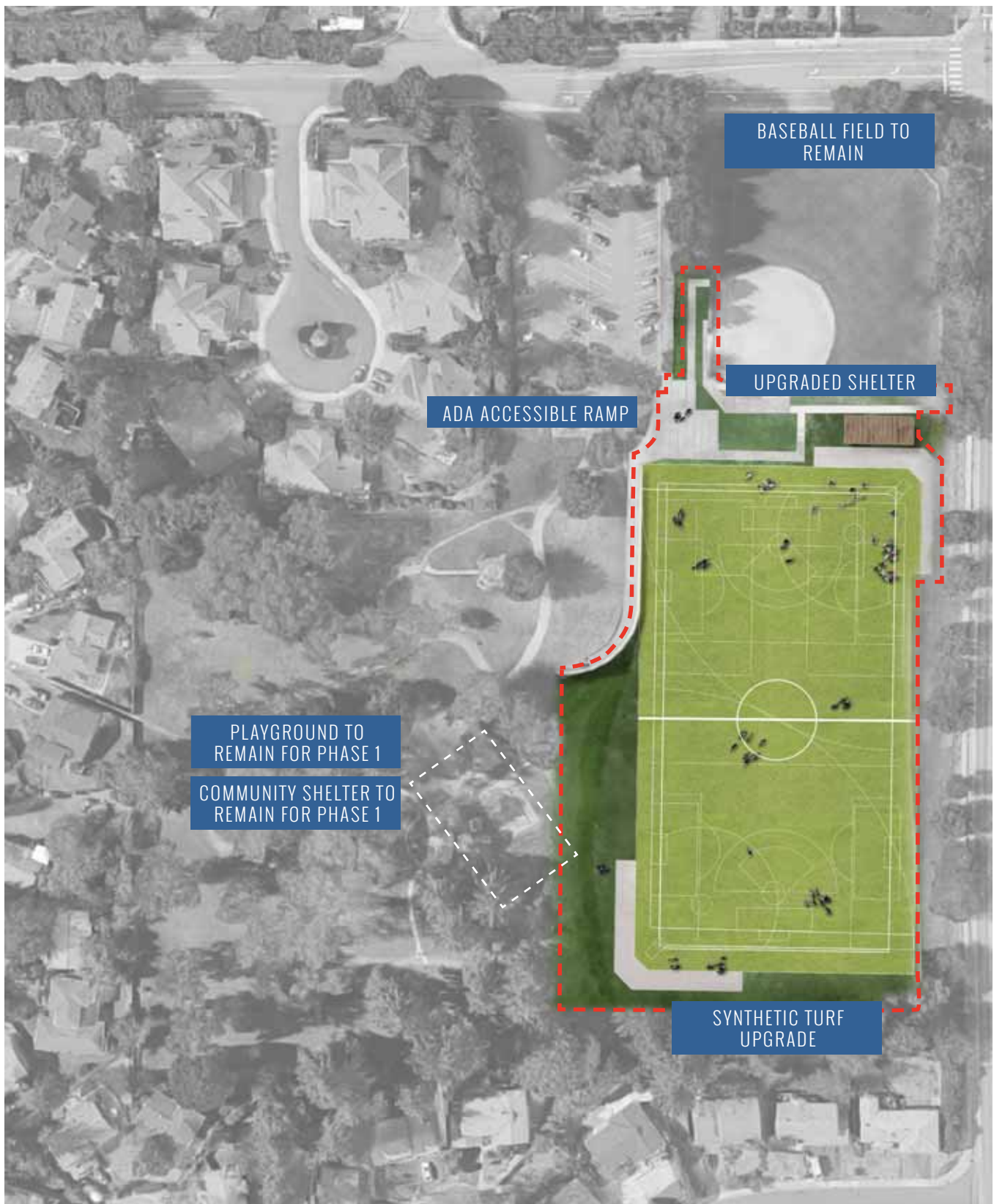
PHASE 1

As planned, the stormwater infiltration facility will generate 4,000 cubic yards of excavated material which will remain onsite to expand and level the playing field. It is less costly to maintain the excavated material onsite rather than hauling and disposing the material off-site. Accordingly, the enlarged multi-purpose field can accommodate two little league fields or one full size soccer field at a desired field slope of less than one percent. The grading of the field and disturbed site will be designed to balance cuts and fills and to limit the exportation of materials, thereby allowing all suitable soil to be reused on the site.

Concrete retaining walls will be constructed along the south and north ends of the field to maximize the playable surface and transition to existing grades. Instead of restoring the athletic field with natural grass, a synthetic turf field will be installed. Field lights are also proposed for the synthetic turf field. The synthetic turf surface can be installed and ready for play in less than half the time it would take to re-establish a natural turf field. Additionally, a maintenance access road and storage shed will be constructed in Phase 1. Any park areas disturbed by the contractor's activities will be restored. Landscape areas around the field area will be seeded and new irrigation installed. An asphalt overlay of the existing parking lot may occur and pedestrian access to the fields will be replaced with an accessible route.

It is anticipated that construction of the Stormwater Retrofit project will disturb about three acres of the park. We recommend the City work with the Contractor to maintain access to the north field, parking lot, and the western portion of the park.

The total probable construction cost of the Phase 1 improvements is \$2.9 million. This cost is reduced by the anticipated Ecology funding of \$1.1 million for a net cost of \$1.8 million. The following figures and tables illustrate the breakdown of the probable construction cost. A detailed cost breakdown per discipline can be found in Appendices 2, 3, and 4.

**PHASE 1**



Park Master Plan		August 22, 2019
Concept Design		2180804.10
Cost Estimate - PHASE 1		
Scope		Fee
Civil - Site Improvements		
Site Preparation		\$166,410.00
Erosion Control		\$63,000.00
Storm Drainage Systems		\$263,370.00
Paving and Surfacing / Traffic Control		\$87,040.00
Water Systems		\$2,500.00
Sanitary Sewer Systems		\$-
Miscellaneous - Walls		\$199,931.00
Subtotal		\$782,251.00
Landscape Architecture - Site Improvements		
Planting		\$17,643.00
Irrigation		\$52,881.00
Site Amenities		\$267,800.00
Playground		\$-
Synthetic Turf Surfacing		\$982,442.00
Fencing - Black Vinyl Coated		\$65,900.00
Subtotal		\$1,386,666.00
Electrical - Site Improvements		
Field Lights		\$303,982.00
Subtotal		\$303,982.00
		\$2,472,899.00
Subtotal Site Work		
Design & Estimating Contingency	10%	\$247,289.90
Subtotal		\$2,720,188.90
General Conditions	6%	\$163,211.33
Subtotal Construction		\$2,883,400.23
Insurance, Bond, Tax	2%	\$57,668.00
Total Probable Construction Cost		\$2,941,068.24



Park Master Plan		August 22, 2019
Concept Design		2180804.10
Cost Estimate - ECOLOGY FUNDING FOR PHASE 1		
Scope		Fee
Civil - Site Improvements		
Site Preparation		\$166,410.00
Erosion Control		\$63,000.00
Storm Drainage Systems		\$263,370.00
Paving and Surfacing / Traffic Control		\$15,000.00
Water Systems		\$-
Sanitary Sewer Systems		\$-
Miscellaneous - Walls		\$150,000.00
Subtotal		\$657,780.00
Landscape Architecture - Site Improvements		
12" Topsoil		\$127,400.00
Under drains		\$103,685.00
Hydroseed Lawn		\$21,601.00
Playground		\$-
Synthetic Turf Surfacing		\$-
Fencing - Black Vinyl Coated		\$-
Subtotal		\$252,686.00
Electrical - Site Improvements		
Parking Lot Lights		\$-
Subtotal		\$-
Subtotal Site Work		\$910,466.00
Design & Estimating Contingency	10%	\$91,046.60
Subtotal		\$1,001,512.60
General Conditions	6%	\$60,090.76
Subtotal Construction		\$1,061,603.36
Insurance, Bond, Tax	2%	\$21,232.07
Total Probable Construction Cost		\$1,082,835.42

SUBSEQUENT PHASES

Subsequent phases of the project will focus on renovating the western side of the park. This renovation will include the creation of a central gathering space in order to accommodate an expanded and upgraded play area and two additional community shelters. The shelter which currently exists will remain in its original location. This phase includes constructing the large play hill and small surrounding berms.

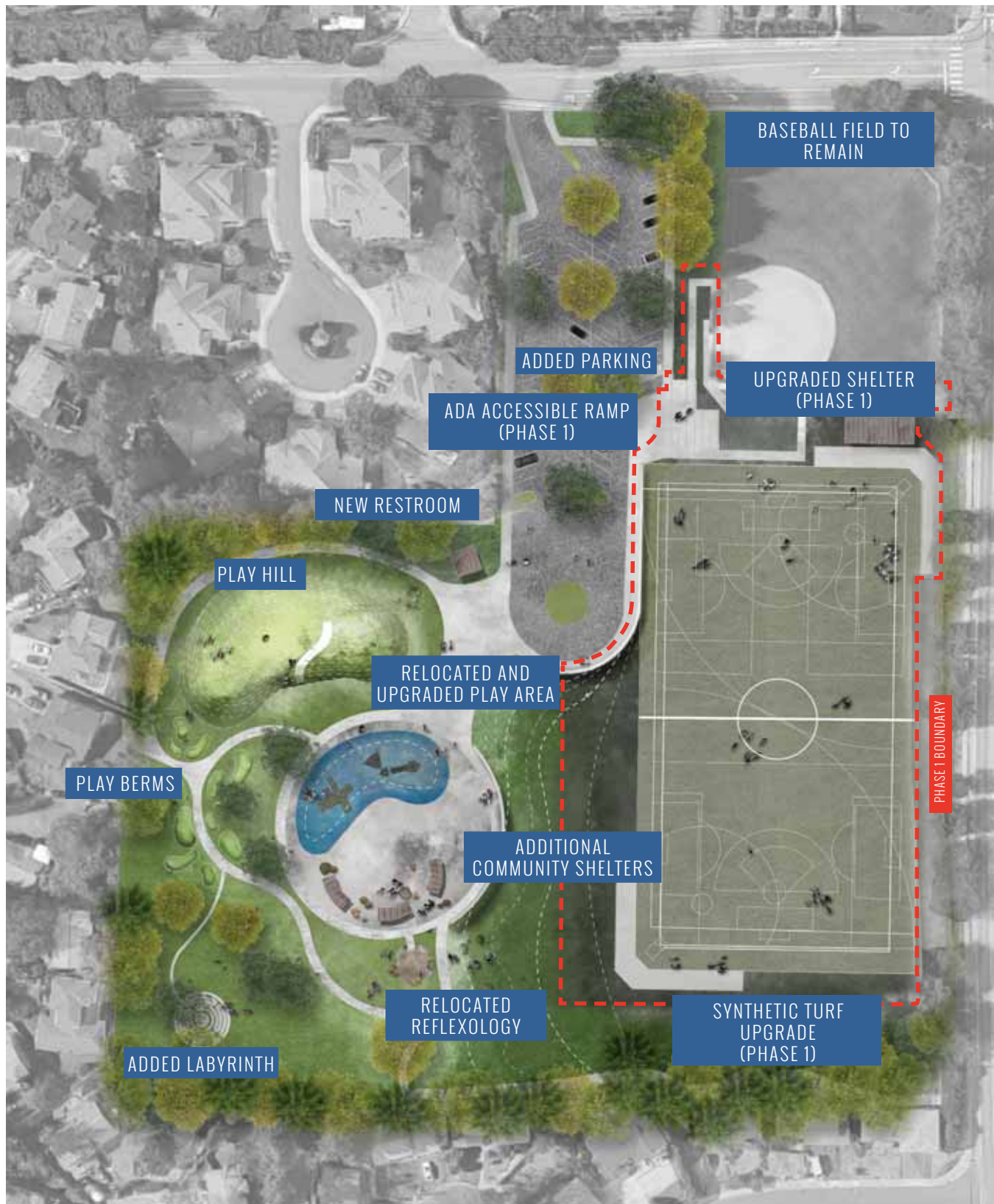
The hill between the synthetic turf field and the community gathering area will also be regraded during this phase; this process will create a multipurpose gathering area at field level and then slope up to the community gathering area. The grading of this hill also directs sleds away from the fencing that will be added to the turf fields. Due to its topography, a retaining wall will be added and will double as a climbing feature in the park. The grading of this central community gathering area will generate 6,900 cubic yards of material which will be placed onsite in the northwest corner of the park to create a play hill. Similarly to Phase 1, this subsequent phase of park development relies on balancing the excavated materials and placement of fill material onsite. This way, the export and import of material is significantly reduced, resulting in tangible environmental and cost benefits.

An expanded parking lot is desired, adding twenty new parking stalls with a drop-off/pickup zone. At this time, the parking lot expansion is anticipated to occur in subsequent phases. However, the parking lot expansion area subgrade may be established in Phase 1 if the contractor is allowed to stage equipment and materials south of the existing parking lot.

The stormwater drainage features for flow control and water quality treatments discussed previously will be provided in Phase 1 construction. Subsequent phases of park improvements will then add catch basins, area drains, and pipe connecting into the regional stormwater system constructed during Phase 1.

Finally, a labyrinth will be added in the southwestern corner of the park. Grading and new hard surfaces will be limited in this corner of the site which will drain off site to the southwest. No additional flow control and water quality treatment facilities are anticipated for the subsequent phasing. New walking paths will be surfaced with porous pavement.

The total probable construction cost of the subsequent phases improvements is \$2.4 million. The following figure and table illustrate the breakdown of the probable construction cost. A detailed cost breakdown per discipline can be found in Appendices 2, 3, and 4.



SUBSEQUENT PHASING



Park Master Plan		August 22, 2019
Concept Design		2180804.10
Cost Estimate - SUBSEQUENT PHASING		
Scope		Fee
Civil - Site Improvements		
Site Preparation		\$236,933.00
Erosion Control		\$87,000.00
Storm Drainage Systems		\$30,370.00
Paving and Surfacing / Traffic Control		\$429,530.00
Water Systems		\$6,460.00
Sanitary Sewer Systems		\$37,764.00
Miscellaneous - Walls		\$98,214.00
Subtotal		\$926,271.00
Landscape Architecture - Site Improvements		
Planting		\$124,309.00
Irrigation		\$204,880.00
Site Amenities		\$391,250.00
Playground		\$307,690.00
Synthetic Turf Surfacing		\$-
Fencing - Black Vinyl Coated		\$1,200.00
Subtotal		\$1,029,329.00
Electrical - Site Improvements		
Parking Lot Lights		\$50,000.00
Subtotal		\$50,000.00
Subtotal Site Work		\$2,005,600.00
Design & Estimating Contingency	10%	\$200,560.00
Subtotal		\$2,206,160.00
General Conditions	6%	\$132,369.60
Subtotal Construction		\$2,338,529.60
Insurance, Bond, Tax	2%	\$46,770.59
Total Probable Construction Cost		\$2,385,300.19



APPENDIX 1

TRAFFIC IMPACT ANALYSIS

TECHNICAL MEMORANDUM

Project: 132nd Square Park Retrofit Facility Project

Subject: Transportation and Parking Assessment

Date: June 3, 2019

Authors: Jennifer Barnes, P.E.
Marni Heffron, P.E., P.T.O.E.

1. Introduction

This memorandum presents assessment of the potential transportation and parking impacts of planned facility improvement options at 132nd Square Park, located at the southwest corner of the NE 132nd Street/132nd Avenue NE intersection.

2. Project Description

The existing park has three fields (two little league softball fields and one soccer field), a picnic area (with two sheltered tables and two unsheltered tables), a play equipment area, trails with benches and other amenities throughout the park, restrooms, and a 60-space surface parking lot accessed from a single driveway on NE 132nd Street. The location of the park is shown on Figure 1.

The City of Kirkland (City) is designing a project to better manage stormwater in the Totem Lake/Juanita Creek basin. Heavy rains and snowmelt can overwhelm the Totem Lake and Juanita Basin drainage system, resulting sometimes in flooded streets, sidewalks, and homes. The 132nd Square stormwater project aims to reduce the amount of stormwater that flows into Totem Lake, and to filter out many of the pollutants that drain with it. The stormwater project will require at least one of three ballfields in the park to be dug up during construction, which provides an opportunity to provide improvements to the fields in conjunction with their restoration. To ensure that park investments are compatible with the community's vision and the City's goals for the park, Kirkland's leaders are engaging the community in a master plan process.¹

Three concept options have been developed for the park improvements. With all options, the two south fields would be lighted, upgraded with multi-use synthetic turf, and striped for use by little league, adult soccer, youth soccer, and lacrosse; the north field would remain unlighted with natural turf. These improvements would allow year-round use of the fields, as the new turf would accommodate wet conditions, and lighting would allow them to be used later into the evening, particularly during the fall through spring months that have more limited daylight.

¹ City of Kirkland, 132nd Square Park Master Plan and Stormwater Retrofit, www.kirklandwa.gov/depart/Public_Works/Construction_Projects/132nd_Square_Park_Master_Plan_and_Stormwater_Retrofit.htm. Accessed May 2019.



Source: Google Earth (Imagery date: 5/26/2018)

132nd Square Park Retrofit Facility

Figure 1
Project Location



**132nd Square Park Retrofit Facility Project
Transportation and Parking Assessment****DRAFT**

In addition to the field upgrades described above, the concept options have the following other elements that vary among them.

Option 1, shown on Figure 2, would retain the existing 60-space parking lot with no parking capacity changes. The existing restroom would remain, and a new storage building would be added. Both the picnic area and play area would be expanded, and excess fill from the stormwater project would be placed in the northwest corner to create a play/sledding hill. Trees would be replaced along the west and south sides of the park to create an urban forest.

Option 2, shown on Figure 3, would expand the parking lot to the south, adding 20 parking spaces (for a total of 80) and a passenger pick-up/drop-off area. A new restroom and storage building would be added. The picnic area would be expanded, and excess fill from the stormwater project would be placed in the northwest corner to create a play/sledding hill. The play area would remain the same as existing.

Option 3, shown on Figure 4, would expand the parking lot to the south and west, adding 70 parking spaces (for a total of 130) and a passenger pick-up/drop-off area. A new restroom would be added. The picnic and play areas would also be expanded.

The transportation and parking effects of the project are primarily related to additional activities that could be enabled by improvements to the existing fields, which would be the same for all options. The effect of expansion of the picnic area and/or play area that would occur to varying degrees with each of the options will also be discussed in this memorandum.



Source: AHBL, May 14, 2019

132nd Square Park Retrofit Facility

Figure 2
Concept Option 1



Source: AHBL, May 14, 2019

132nd Square Park Retrofit Facility

Figure 3
Concept Option 2





Source: AHBL, May 14, 2019

132nd Square Park Retrofit Facility

Figure 4
Concept Option 3



3. Existing Transportation System

3.1. Street System

The following key roadways are located in the vicinity of the park.

NE 132nd Street is an east-west street that is adjacent to the north side of 132nd Square Park. To the west of 132nd Avenue NE it is a Principal Arterial with a speed limit of 35 miles per hour (mph). To the east, it is a local access street with a speed limit of 25 mph. It has one travel lane in each direction and curb, gutter, and sidewalk on each side. The street has a painted bike lane in each direction to the west of 132nd Avenue NE; the City is currently studying improvements that would extend the bike lanes to the east.² Parking is prohibited along both sides.

132nd Avenue NE is a north-south street that is adjacent to the east side of 132nd Square Park. It is a Collector Arterial with speed limit of 35 mph to the south of NE 132nd Street and 25 mph to the north. It has one travel lane in each direction and curb, gutter, and sidewalk on each side. Parking is prohibited along both sides.

3.2. On-Street Parking

As noted above, there is no on-street parking allowed on either of the arterials adjacent to 132nd Square Park. The local access streets in the vicinity generally have adequate width to accommodate on-street parking, but due to the limited street grid and large presence of cul-de-sac streets, very little on-street parking is directly accessible within a two or three block walking distance from the park.

3.3. Transit

The site is served by King County Metro (Metro) bus routes 236, 244, and 252. Route 236 provides two-way service between the Kirkland Transit Center, Juanita, Kingsgate and Woodinville; it operates at 30-minute frequencies on weekdays and 60-minute frequencies on weekends. The other two routes provide weekday commuter service (toward Bellevue and Seattle on weekdays between about 5:00 and 9:00 A.M., and away from Bellevue and Seattle between about 3:00 and 7:00 P.M.) at about 20- to 30-minute frequencies.

3.4. Non-Motorized Facilities

As described previously, all arterial streets in the site vicinity have sidewalks. Crosswalks with pedestrian signals are provided across all legs of the NE 132nd Street/132nd Avenue NE intersection, adjacent to the site. Some local access streets serving residential development in the vicinity have sidewalks on one or both sides, although some do not. There are pedestrian paths connecting 132nd Square Park and the residential development on its west and south sides. NE 132nd Street has a painted bike lane in each direction to the west of 132nd Avenue NE; the City is currently studying improvements that would extend the bike lanes to the east.

² City of Kirkland, Northeast 132nd Street Improvements, www.kirklandwa.gov/depart/Public_Works/Construction_Projects/Northeast_132nd_Street_TC.htm, Accessed May 2019.

4. Existing Park Activity

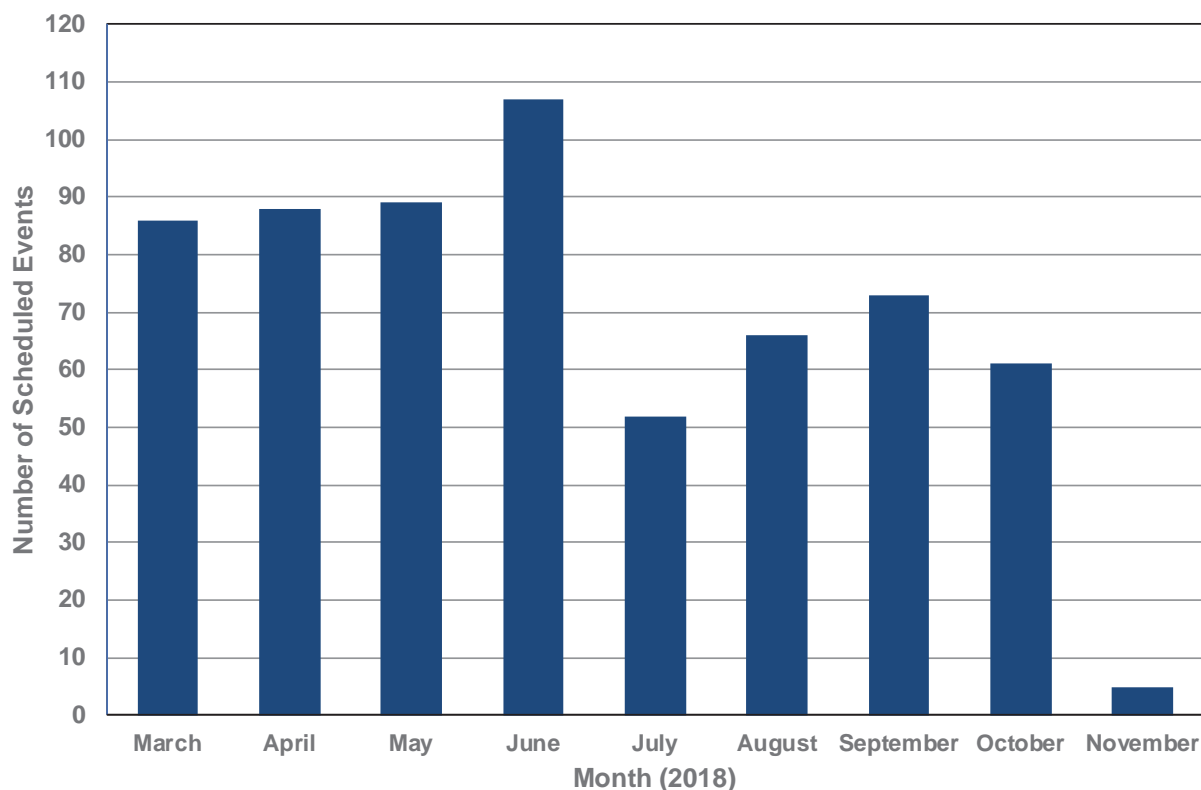
Existing park activity was determined by reviewing 2018 and 2019 scheduling data provided by the Kirkland Department of Parks and Community Services, and field observations conducted in May 2019. The following scheduled activities³ currently occur at 132nd Square Park:

- **Kirkland National Little League** – March thru June, Monday thru Saturday, 4:30 to 7:00 P.M., and daytime on Saturdays when Pee Wee Soccer is not active; August thru October, generally two weekday evenings and/or occasional Saturday or Sunday afternoons.
- **Pee Wee Soccer** – April thru June, September and October, Saturdays from 9:00 A.M. to 2:00 P.M.
- **Fastpitch Softball** – two leagues are active March thru July, primarily on Sundays, with some weekday and Saturday evening use; one Tuesday evening league is active August thru October.
- **Washington Youth Soccer** – July thru November, Monday thru Friday, 4:00 to 6:00 P.M.
- The **picnic shelter area** can be reserved from 9:00 A.M. to 9:00 P.M. Half day reservations can be made from 9:00 A.M. to 2:00 P.M., or from 3:00 to 9:00 P.M. It was reserved 59 times in 2018, primarily on Saturdays and Sundays. Peak activity occurred from June thru September, with the area reserved for all or half of most weekend days during those months.

Figure 5 summarizes the total number of scheduled events at 132nd Square Park by month, including field events and picnic shelter reservations. As shown, the peak level of activity occurs March through June, with the highest number of events scheduled in June. Little to no scheduled activity occurs in the park from November through February.

³ Based upon data provided for the complete 2018 calendar year; 2019 field schedule information provided by the City as of March 2019, schedule information for the Kirkland National Little League (<http://www.kirklandnational.com/home>) and Pee Wee Soccer (www.kirklandwa.gov/depart/parks/Recreation_and_Services/Recreation_Programs/Youth_Athletics/Pee_Wee_Soccer.htm) as well as field observations conducted in May 2019, indicated similar use for the 2019 calendar year.

Figure 5. Scheduled Events by Month (2018)



Source: Kirkland Department of Parks and Community Services, compiled by Heffron Transportation, March 2019.

Based on review of the field schedule data and conversations with City staff, it was determined that peak weekday use of the field occurs when the field is hosting evening Little League games that would attract multiple teams with players, coaches and parents. Peak weekend use occurs on a Saturday when the fields are divided into multiple smaller fields to host Pee Wee Soccer games. Observations were conducted by Heffron Transportation staff on Wednesday, May 1, 2019, during Kirkland National Little League activities (which reflects peak weekday activity), and on Saturday, May 4, 2019, during Pee Wee Soccer (which reflects peak weekend activity). The weather on both days was sunny and warm. The following sections described the observed park use—both scheduled and unscheduled—and parking conditions during these peak periods.

4.1. Peak Weekday Evening

The Kirkland National Little League utilizes two fields during its reserved times. Currently, the league primarily schedules T-ball (for ages 4 thru 6) and “A” division softball (coach-pitch for ages 5 thru 7) at 132nd Square Park; in 2019; the fields are very occasionally scheduled for “AAA” (modified coach-pitch for ages 7 thru 9) and “Coast” (player-pitch for ages 9 thru 11) division softball games. Although the fields are reserved every evening (Monday thru Saturday) during the season, softball games are typically scheduled about twice per week, and T-ball is scheduled once per week at the park (on Wednesdays). The fields may be used for softball practice during the times when games are not scheduled.

On the evening of the Little League field observation, T-ball was played on the south ballfield from about 5:00 to 6:00 P.M. Since T-ball is played within a smaller area than a regulation field, there were three separate groups playing or practicing simultaneously on the same field. An “A” division softball game was

played on the north ballfield from about 6:00 to 7:00 P.M., and softball practice occurred on the field during the 90 minutes prior to that. Because these divisions are comprised of the league's youngest players (ages 4 thru 7), they generate a high level of (driving age) adult activity. In general, each team had about 6 to 8 players, with higher numbers of coaches, assistants, umpires, and parents. During the peak parking period, about 37 youth players were observed on the two fields with about 40 adults coaching or watching; at the same time there were about 22 adults and 25 children in the playground area. The soccer field was not scheduled, but various small groups played or practiced soccer on the field over the course of the evening.

Prior to the start of the Little League activity, the parking lot was 33% full (20 cars parked), and demand increased steadily until about 6:30 P.M. Parking demand was at or above the lot's capacity from just before 6:00 P.M. until about 6:30 P.M.; during this period, departing vehicles associated with T-ball overlapped with arriving vehicles associated with the softball game. After the 58 general spaces were filled, parked vehicles were observed in the accessible spaces (without displaying permits) and along the edge of the drive aisle. The peak observed demand was 62 parked vehicles; no vehicles were observed to be illegally parked on the adjacent arterials. The softball fields and vehicles associated with them were cleared from the park by about 7:15 P.M. At that time, the parking lot was 30% full (18 vehicles parked), all associated with passive use of the park including the trails and play areas.

The picnic area, play area, and trails were highly utilized throughout the evening. Parking counts conducted before and after the Little League activities indicated that about one-third of the on-site parking demand was generated by activities unrelated to the scheduled field events.

4.2. Peak Saturday

Pee Wee Soccer uses all three fields during its scheduled time. Games take 60 minutes with the first part of the hour dedicated to practice. Each Saturday, the 3/4-year-old division has games that start at 9:00 A.M. and 10:00 A.M., and the 5/6-year-old division has games that start at 11:15 A.M., 12:15 P.M., and 1:15 P.M. The league uses volunteer coaches and is composed of teams of 10 children. If all scheduled teams have a full roster, there can be up to 60 youth players on the fields between 9:00 and 11:00 A.M., and up to 40 players between 11:15 A.M. and 2:15 P.M. Similar to the youth softball, the number of adults (coaches, volunteers, parents and other observers) is typically higher than the number of players on the field. Because new games with different teams begin every hour, there is overlap between the vehicles generated by the consecutive games about for about half of the time that Pee Wee Soccer is underway.

On the day of the field observation, the parking lot was full by 9:00 A.M. As demand increased, parked vehicles were observed in the accessible stalls (without permits), edges of the parking lot drive aisles, and along the south side of NE 132nd Street, blocking the bike lanes. It is likely that some park-generated parking demand also occurred on nearby local access streets during this period. The picnic and play areas were also highly utilized. It is noted that on the day of the soccer observation there was also an event across the street from the park at the Friends of Youth facility, which may have also contributed to parking overspill in the vicinity. However, based upon the observed activity at the fields, play area, and picnic area, combined with on-site and on-street parking counts and Heffron Transportation's experience with other field projects, it is estimated that the peak Saturday parking demand is 85 to 95 vehicles, occurring during the transition period between consecutive morning games.

4.3. Other Field Events

The other scheduled events at 132nd Square Park would generate lower parking demand than the peak activities described above. All three fastpitch softball leagues that utilize the 132nd Square Park fields are comprised of high school age players. The teams play regulation softball so only have two teams on a field during the period games are scheduled. More players typically arrive per vehicle, and the number of

**132nd Square Park Retrofit Facility Project
Transportation and Parking Assessment****DRAFT**

non-player adults (coaches, umpires, parents and other observers) is at a lower ratio than that associated with the very young teams.

The demand generated by Washington Youth Soccer would depend on the division that plays at 132nd Square Park—the organization supports recreational and select leagues for players of age 5 through 19. However, the two-hour period that is scheduled accommodates one game per evening, so there would not be the overlap between consecutive games that was observed during the softball and Pee Wee Soccer events. The ratio of driving-age adults to youth players would vary with the ages of the players (with more adults and parked vehicles generated by teams with younger players) but would be either comparable to, or lower than, the peak levels described above.

It should be noted that on some weekday evenings in August and September, softball and soccer games are scheduled concurrently on two adjacent fields. It is expected that the level of cumulative parking demand would be similar to or less than the demand generated by the concurrent Tee-ball and “A” division softball games.

5. Impacts of Park Improvement Options

The following elements of the conceptual improvement options would generate additional parking demand at 132nd Square Park.

1. Upgrade from natural to synthetic turf on the two south fields would allow field events to be scheduled during the wet winter months (November through February).
2. Installation of field lighting would allow field events to be scheduled later into the evening (currently scheduled field events end at either 6:00 or 7:00 P.M.).
3. Expansion of the picnic shelter area could potentially generate additional parking, if it allows reservations for separate groups to be made concurrently (currently, the shelter area can be reserved by only one group at a time).

The effects of these activities are described in the following sections.

5.1. Additional Field Events

Peak parking demand at the 132nd Square Park now occurs midday on a Saturday when the fields are divided to support multiple, simultaneous Pee Wee Soccer games, and those games coincide with peak use of the passive areas of the park (playground, trails and picnic areas). The next highest parking demand occurs on weekday evenings during the overlap between consecutive games on each of the fields. The proposed field improvements would not change the types of events that could be scheduled on the fields and would not increase the peak parking demand or trips generated by the park. Instead the improvements would extend the season in which such activities could occur, or allow them to occur later in the evening.

As previously illustrated on Figure 5, there is currently little to no activity scheduled from November through February. Installation of artificial turf would allow field events to be scheduled during the winter months, and installation of field lighting would allow events to be scheduled later into the evening during all months of the year.

Additional softball, soccer, and/or lacrosse games and practices that could occur during winter months and in later evening would be played by teams of older youth or adults that would generate parking demand lower than the demand that currently occurs during youth games. Also, extended periods when field

use could be scheduled occur during later evening and winter months when there is much less passive use of the park. Therefore, the peak parking demand (and related traffic generation) is expected to be lower during these periods than during the peak summer season.

Heffron Transportation has an extensive database of historical spectator and participant counts performed for youth and adult athletic activities throughout the Puget Sound region. These have been used to estimate trip generation and parking demand for different types of field activities including those that occur at lighted fields. Adult recreational soccer matches typically draw between 23 and 30 people (including participants, spectators, and referee), and all typically arrive and park their own vehicle. Therefore, each game can generate up to 30 parked vehicles. The peak demand occurs in the overlap period between games when one team arrives while the other is still on the field. The peak demand associated with use of the one proposed turf and lighted field would be 60 vehicles. During seasons when there may still be some passive evening use of the fields, the parking demand can be reduced by adding a 30-minute gap between the end of one game and the beginning of the next game, which reduces the parking overlap.

5.2. Expanded Picnic Shelter Area

Some level of expansion of the picnic shelter area has been identified with all three options. This could increase parking demand if it allows more than one group at a time to reserve a shelter, as currently only one group at a time may reserve the shelter for either a half or full day. While group size can vary, parking demand was estimated assuming a group size of 30 people with an average of two people per vehicle. This would generate a peak demand of 15 vehicle. Since the picnic shelter area is most regularly reserved during summer weekend days, the cumulative parking demand would be highest on Saturday mornings when Pee Wee Soccer is in session. If an improvement option is selected by which parking during the peak youth activities would continue to be constrained, the City could consider limiting the picnic shelter reservations to one group at a time when it coincides with Pee Wee Soccer.

5.3. Summary Parking Demand

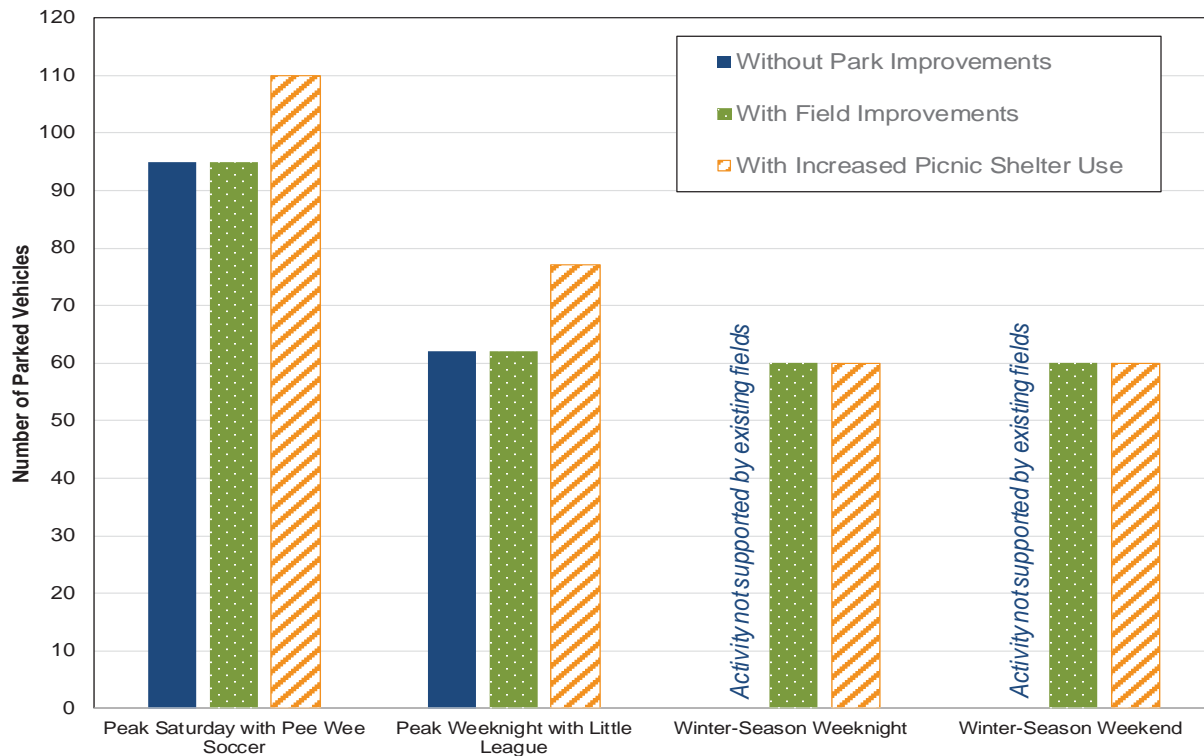
Figure 6 summarizes the potential parking demand associated with the parking improvements. The turf field and lighting improvements are not expected to increase the peak Saturday and weeknight parking during the fair-weather months. However, an additional picnic shelter could add to the peak parking demand if its use allows reservation by two groups concurrently, during periods coincident to those existing peak times. The cumulative parking could be reduced during peak times by scheduling a 30-minute gap between field events, allowing some of the parking to clear out from the first event before the second event starts.

The turf improvements and lighting would generate parking during the winter season months; however, the peak demand would be less than what current occurs during the peak season.

**132nd Square Park Retrofit Facility Project
Transportation and Parking Assessment**

DRAFT

Figure 6. Parking Impact of Improvements



Source: Heffron Transportation, Inc., May 2019.

5.4. Additional On-Site Parking Supply

As described previously, each of the three concept options would provide different levels of on-site parking; Option 1 would maintain the existing 60-space lot, Option 2 would expand the lot to 80 spaces, and Option 3, would expand the lot to 130 spaces. The assessment presented in this memorandum shows that the winter and later evening games and practices enabled by the field improvements could be accommodated with the existing parking supply; therefore, any of the three options would provide adequate parking to support the additional activities.

However, some activities that currently occur at the fields—which are expected to continue with or without the retrofit project—generate parking demand that exceeds the existing on-site supply. While the peak parking demand would not be increased with the field improvements, the existing peak parking impacts would continue with Option 1, which would maintain the existing on-site supply. Option 2, with 20 additional spaces, would be expected to accommodate most weekday evening parking demand. Parking during Saturday morning Pee Wee Soccer may still be constrained with this option during surges that occur with the transitions between consecutive games, but it would improve conditions compared to existing. With Option 1 or 2, the City could additionally explore leasing spaces in the church parking lot located on the northeast corner of NE 132nd Street/132nd Avenue NE during the periods in which parking demand regularly exceeds on-site supply.

It is expected that Option 3, with 70 additional spaces, would accommodate cumulative parking demand generated by all park activities. However, during all periods except when Pee Wee Soccer is underway, the 130 parking spaces provided with the option would constitute over-supply for the demand that is typically generated.

6. Summary and Recommendations

The City is designing a project to better manage stormwater in the Totem Lake/Juanita Creek basin. The project will require at least one of three ballfields in the park to be dug up during construction, which provides an opportunity to provide improvements to the fields in conjunction with their restoration. Three concept options have been developed for the park improvements. With all options, the two south fields would be lighted, upgraded with multi-use synthetic turf, and striped for use by little league, adult soccer, youth soccer, and lacrosse; the north field would remain unlighted with natural turf. These improvements would allow year-round use of the fields, as the new turf would accommodate wet conditions and lighting would allow them to be used later into the evening. The options would provide varying levels of on-site parking and have different combinations of improvements that include expansion of the picnic shelter and play areas, new restrooms, storage building, sledding hill, and landscaping.

The types of additional events enabled by the field improvements would generate lower levels of parking demand and trip generation than the activities that currently occur at the fields. The Little League and Pee Wee Soccer divisions that currently use the fields, with players between 4 and 7 years old, generate higher intensity parking demand than other types of field events that can occur. Additional softball, soccer, and/or lacrosse games and practices that could occur during winter months and later evening would be played by teams of older youth or adults that would generate lower parking demand. These activities could be accommodated with the existing parking supply; therefore, all options would provide adequate parking to support the additional field activities. However, with all three options, expansion of the picnic shelter area could also increase parking demand if it allows more than one group at a time to reserve a shelter.

Some activities that currently occur on the fields—which are expected to continue with or without the retrofit project—generate parking demand that exceeds the existing on-site supply. The existing peak parking impacts would continue with Option 1, which would maintain the existing 60-space on-site supply. Option 2, with 20 additional spaces, would be expected to accommodate most weekday evening parking demand. Parking during Saturday morning Pee Wee Soccer may still be constrained with this option during surges that occur with the transitions between consecutive games, but it would improve conditions compared to existing. It is expected that Option 3, with 70 additional spaces, would accommodate cumulative parking demand generated by all park activities. However, during all periods except when Pee Wee Soccer is underway, the 130 parking spaces provided with this option would constitute over-supply for the demand that is typically generated.

Depending on the improvement option that is chosen, the following mitigation measures are recommended to reduce parking impacts of the 132nd Square Park Retrofit Facility Project:

- With all options, for the peak weeknight and weekend condition when both fields can be used, a 30-minute gap be scheduled between the end of one event and the beginning of the following event to reduce the amount of parking overlap between consecutive activities. This scheduling gap would not be needed during the winter months when only one of the fields could be used.
- With Option 1 or 2, the City could additionally explore leasing spaces in the church parking lot located on the northeast corner of NE 132nd Street/132nd Avenue NE during the periods in which parking demand regularly exceeds on-site supply.
- If an improvement option is selected by which parking during the peak youth activities would continue to be constrained, the City could consider limiting the picnic shelter reservations to one group at a time during these periods.

JAB/mch

132nd Square Park_Parking Assessment_DRAFT



APPENDIX 2

30% LIGHTING DESIGN

132ND SQUARE PARK RETROFIT FACILITY

PORTIONS OF THE NE 1/4 AND THE NE 1/4 SEC. 28, TWIN. 26N., RGE.05 E. W.M.

CITY OF KIRKLAND, KING COUNTY, WASHINGTON



1200 8th Avenue, Suite 1020 Seattle, WA 98101
206.267.2425 TEL 206.267.2429 FAX
www.811.com WEB

**132ND SQUARE
PARK RETROFIT
FACILITY**

CITY OF KIRKLAND

Project No.
218984.10
Issue Set & Date

MASTER PLAN

AUGUST 19, 2019

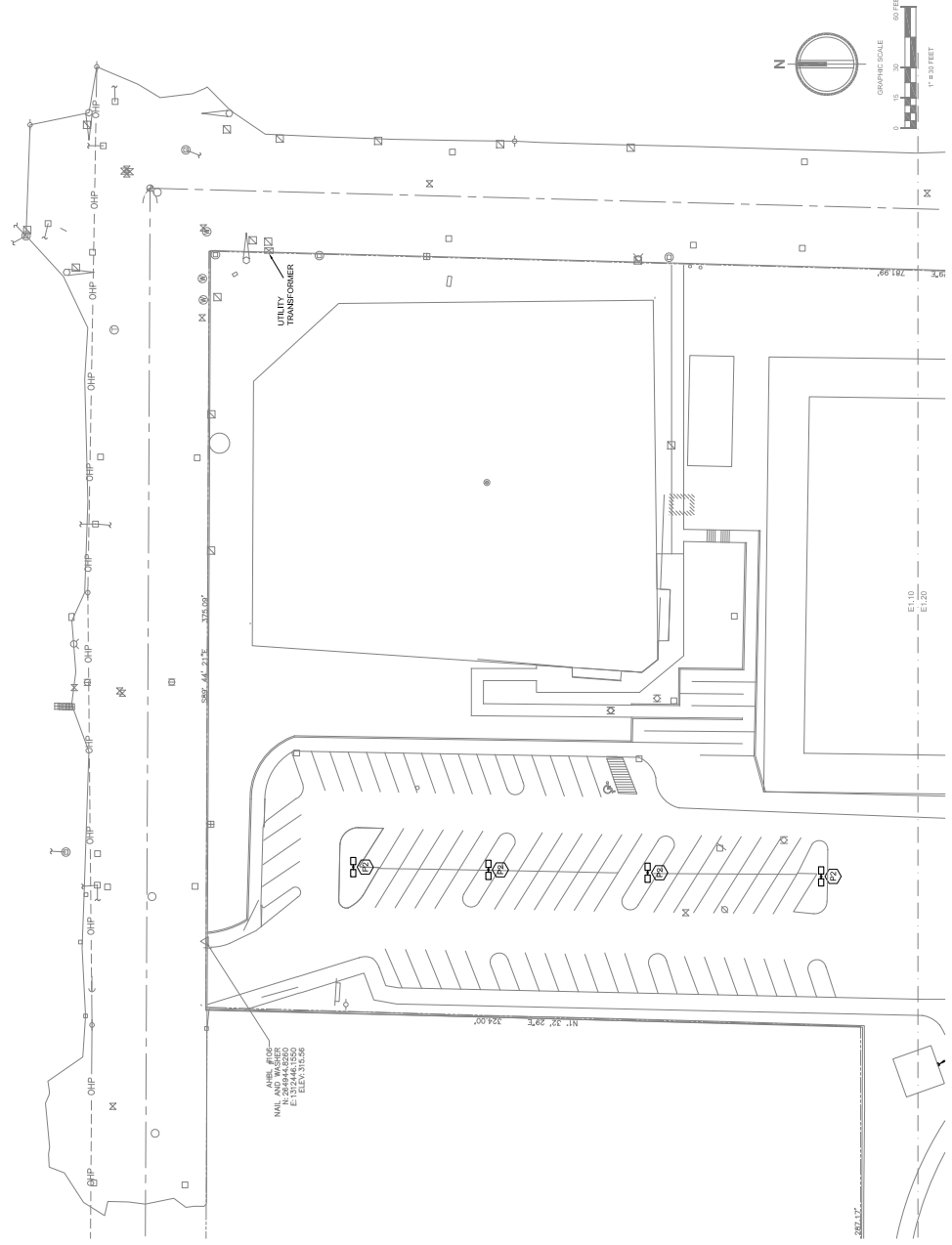


Revisions:
Sheet Title:
PARK LIGHTING
PLAN

Designed By: JNK
Drawn By: JNK
Checked By: SUR

Sheet No.

E1.10
1 of 1 Sheets



LEGEND	
	EXISTING LIGHT POLE WITH DOUBLE HEAD LUMINAIRES MOUNTED AT 20'
	FIELD LIGHT POLE LUMINAIRES TO BE FULL CUTOFF
	NEW ELECTRICAL PANEL



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COST OPINION

Project:	Kirkland Square Park			Date:	8/8/2019
Job Number:	190604			Ckd.By:	
Activity:	Design	Status of Design:	30% Design	Est. By:	SJR

[illegible]



APPENDIX 3

CIVIL PLANS & COST ESTIMATE

132ND SQUARE PARK RETROFIT FACILITY

PORTIONS OF THE NE 1/4 AND THE NE 1/4 SEC. 28, TWIN. 26N., RGE. 05 E. W.M.

CITY OF KIRKLAND, KING COUNTY, WASHINGTON



**132ND SQUARE
PARK RETROFIT
FACILITY**

CITY OF KIRKLAND

Project No. 2190804-10
Issue: Set & Detail

MASTER PLAN
AUGUST 22, 2019

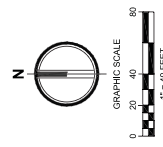
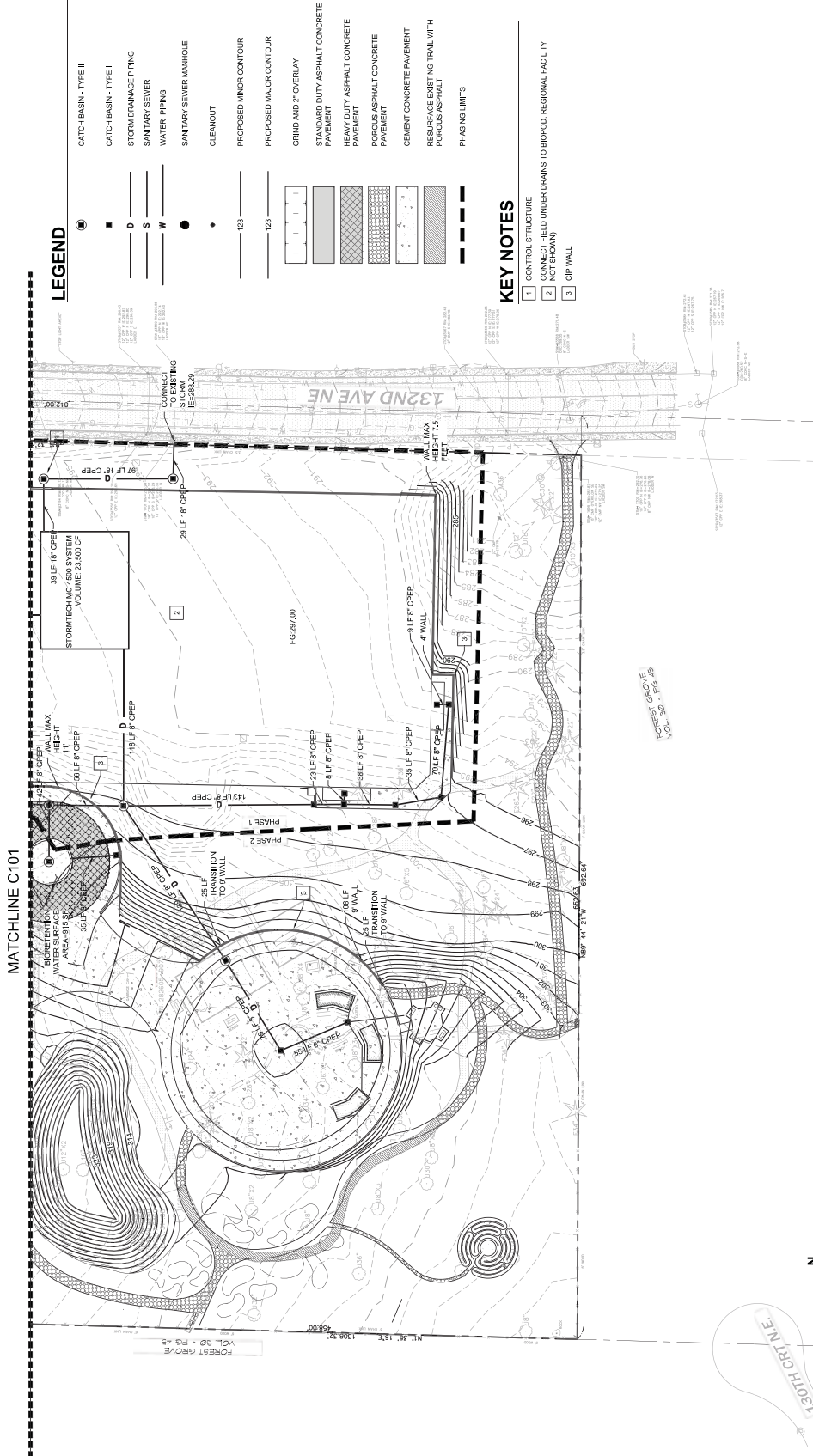
NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE WASHINGTON STATE AND CITY OF KIRKLAND SPECIFICATIONS FOR PUBLIC WORKS.
2. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE SITE AND HAS OBSERVED THE EXISTING CONDITIONS. THE DESIGNER HAS NOT CONDUCTED ANY SUBSURFACE INVESTIGATIONS OR TESTS.
3. THE DESIGNER HAS NOT CONDUCTED ANY GEOTECHNICAL INVESTIGATIONS OR TESTS.

Sheet Title
**UTILITY &
GRADING PLAN**

Drawn by: Checked by:

Sheet No.
C102

of Sheets
DWG-NO



Know what's below.
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132nd SQ - Phase 1

Master Plan

2180804.00
PROJECT NUMBER



Opinion of Probable Cost

ITEM	DESCRIPTION	NO. UNITS		UNIT PRICE	COST
SITE PREPARATION					
10.0010	Demolish Pavement and Dispose Off-Site	1075	SY	8.00	\$8,600.00
	Miscellaneous Demo	1.00	LS	3,000.00	\$3,000.00
10.0050	Clearing and Grubbing	3.2	AC	5,000.00	\$16,000.00
10.0060	Onsite Cut to fill	3450	CY	11.00	\$37,950.00
10.0061	Stormwater retrofit Cut to fill	4050	CY	11.00	\$44,550.00
10.0065	Import Structural Fill	383	CY	30.00	\$11,490.00
10.0100	Demolish Catch Basin, Area Drains and Manholes	3	EA	500.00	\$1,500.00
10.0120	Demolish Existing Utilities, including disposal	260	LF	7.00	\$1,820.00
10.0160	Demolish Fence (Chain Link)	380	LF	4.00	\$1,520.00
10.0180	Tree Removal	13	EA	600.00	\$7,800.00
10.0230	Fine Grade and Proofroll Building Pad & Hardscape	11540	SY	2.50	\$28,850.00
10.0250	Fine Grade Landscape Areas	2220	SY	1.50	\$3,330.00
SUBTOTAL SEC. 010					\$166,410.00
EROSION CONTROL					
20.0200	Erosion and Sediment Control Estimate	3.2	AC	15,000.00	\$48,000.00
20.0300	Compliance with NPDES and Maintenance	1	LS	15,000.00	\$15,000.00
SUBTOTAL SEC. 30.00					\$63,000.00
STORM DRAINAGE SYSTEMS					
30.0310	CPEP 8" Diameter	1190	LF	35.00	\$41,650.00
30.0340	CPEP 18" Diameter	164	LF	55.00	\$9,020.00
30.0450	Type I Catch basin	19	EA	1,500.00	\$28,500.00
30.0460	Type II Catch basin, 48" Up to 8' Deep	3	EA	3,500.00	\$10,500.00
30.0510	Storm Control Manhole 54" Up to 8' Deep	1	EA	7,500.00	\$7,500.00
30.0670	Connect to Existing Storm	1	EA	1,700.00	\$1,700.00
30.0715	Flow Control Chambers - Porous Stone	23500	CF	7.00	\$164,500.00
				5.00	\$263,370.00

132nd SQ - Phase 1 Master Plan

2180804.00
PROJECT NUMBER



Opinion of Probable Cost

ITEM	DESCRIPTION	NO. UNITS	UNIT PRICE	COST
PAVING & SURFACING				
40.0010	Std Duty Asphalt Conc. HMA Class 1/2 (3")	22 TON	100.00	\$2,200.00
40.0020	Std Duty Crushed Surfacing Coarse (4")	28 TON	30.00	\$840.00
40.0090	Cement Concrete Walk	875 SY	60.00	\$52,500.00
40.0176	ADA Ramp (Excluding Handrails and Walls)	210 SY	150.00	\$31,500.00
SUBTOTAL SEC. 40.00				\$87,040.00
MISCELLANEOUS				
100.0080	Mobilization (5% of Onsite Total)	1 LS	37,131.00	\$37,131.00
100.0231	Walls For ADA Ramp	675 SF	30.00	\$20,250.00
100.0232	Stairs	78 LF Ns	100.00	\$7,800.00
100.0233	Prefabricated Storage Shed	1 LS		
100.0234	Survey (Three Man Crew 8 hr/day)	2 Days	2075	\$4,150.00
100.0236	Cast in Place Wall 12" wide, 8, 9, 10, 11 ft wall	3265 SF	40.00	\$130,600.00
SUBTOTAL SEC. 100.00				\$199,931.00
SECTION TOTALS				\$779,751.00



APPENDIX 4

LANDSCAPE COST ESTIMATES

132nd Square Park - Phase 1

Master Plan

Opinion of Probable Cost

2180804.00
Project Number

ITEM DESCRIPTION	NO. UNITS	UNIT PRICE	COST
PLANTING			
Deciduous Trees (2" caliper)	- EA	\$ 450.00	\$ -
Evergreen Trees (6' ht. min)	- EA	\$ 350.00	\$ -
Shrub and Groundcover - Perimeter	- SF	\$ 3.75	\$ -
Shrub and Groundcover - Interior	- SF	\$ 4.00	\$ -
Lawn (Hydroseed)	35,505 SF	\$ 0.25	\$ 8,876
Mulch 3" depth	- CY	\$ 42.00	\$ -
Soil Prep (6" average Depth)	219 CY	\$ 40.00	\$ 8,767
Steel landscape edging	- LF	\$ 11.00	\$ -
		SUBTOTAL	\$ 17,643
IRRIGATION			
Controller	1 EA	\$ 5,000.00	\$ 5,000
Irrigation for Shub, Groundcover and lawn area	35,505 SF	\$ 1.25	\$ 44,381
Backflow Prevention Device	1 EA	\$ 3,500.00	\$ 3,500
Pump and Enclosure, Allowance	- LS	\$ 30,000.00	\$ -
		SUBTOTAL	\$ 52,881
SITE AMENITIES			
Benches for players	4 EA	\$ 2,500.00	\$ 10,000
Bleachers	4 EA	\$ 5,000.00	\$ 20,000
Park Benches	- EA	\$ 2,500.00	\$ -
Picnic Shelters - 2, Allowance	- LS	\$ 10,000.00	\$ -
Shed - 1, Allowance	1 LS	\$ 80,000.00	\$ 80,000
Guardrails, Steel, Galvanized	232 LF	\$ 150.00	\$ 34,800
Handrails, Steel, Galvanized	950 LF	\$ 100.00	\$ 95,000
Boulders	- EA	\$ 150.00	\$ -
Drinking Fountain	1 EA	\$ 10,000.00	\$ 10,000
Litter and Recycling Receptacles	6 EA	\$ 3,000.00	\$ 18,000
Restroom, Prefab, Allowance	- LS	\$ 270,000.00	\$ -
Reflexology, Relocation, Allowance	- LS	\$ 10,000.00	\$ -
Labryrinth, Allowance	- LS	\$ 20,000.00	\$ -
		SUBTOTAL	\$ 267,800
PLAYGROUND			
Poured in place safety surfacing, with crushed rock base and under drains	- SF	\$ 30.00	\$ -
Play equipment, Allowance	- LS	\$ 80,000.00	\$ -
Embankment Slide, Allowance	- LS	\$ 20,000.00	\$ -
		SUBTOTAL	
SYNTHETIC TURF SURFACING			
Under drainage (4" perf lines, in pea gravel, 15' OC)	86,404 SF	\$ 1.20	\$ 103,685
Mirafi	86,404 SF	\$ 0.15	\$ 12,961
6" Base Course	86,404 SF	\$ 2.00	\$ 172,808
2" Top Course	86,404 SF	\$ 1.00	\$ 86,404
Wash Water System, qcv	6 EA	\$ 3,000.00	\$ 18,000
Synthetic Turf with Athletic Lines (with crumb rubber infill)	86,404 SF	\$ 6.25	\$ 540,025
Fall attenuation layer	86,404 SF	\$ -	\$ -
6"x12" Reinforced Perimeter Curb w/ Turf Anchors	1,214 LF	\$ 40.00	\$ 48,560
		SUBTOTAL	\$ 982,442

FENCING - BLACK VINYL

Backstop - 20'-0"	164 LF	\$	90.00	\$	14,760
Field Fencing - 12'-0"	166 LF	\$	50.00	\$	8,300
Field Fencing - 6'-0"	886 LF	\$	40.00	\$	35,440
Gate - 6'-0", 4'-0" wide	4 EA	\$	600.00	\$	2,400
Gate - 6'-0", 10'-0" wide, double swing	2 EA	\$	2,500.00	\$	5,000
	SUBTOTAL			\$	65,900
	GRAND				
	TOTAL			\$	1,386,667

132nd Square Park - Subsequent Phases

Master Plan

Opinion of Probable Cost

2180804.00
Project Number

ITEM DESCRIPTION	NO.	UNITS	UNIT PRICE	COST
PLANTING				
Deciduous Trees (2" caliper)	26	EA	\$ 450.00	\$ 11,700
Evergreen Trees (6' ht. min)	69	EA	\$ 350.00	\$ 24,150
Shrub and Groundcover - Perimeter	3,377	SF	\$ 3.75	\$ 12,664
Shrub and Groundcover - Interior	3,521	SF	\$ 4.00	\$ 14,084
Lawn (Hydroseed)	133,006	SF	\$ 0.25	\$ 33,252
Mulch 3" depth	64	CY	\$ 42.00	\$ 2,683
Soil Prep (6" average Depth)	644	CY	\$ 40.00	\$ 25,778
Steel landscape edging	-	LF	\$ 11.00	\$ -
			SUBTOTAL	\$ 124,310
IRRIGATION				
Controller	-	EA	\$ 5,000.00	\$ -
Irrigation for Shub, Groundcover and lawn area	139,904	SF	\$ 1.25	\$ 174,880
Backflow Prevention Device	-	EA	\$ 3,500.00	\$ -
Pump and Enclosure, Allowance	1	LS	\$ 30,000.00	\$ 30,000
			SUBTOTAL	\$ 204,880
SITE AMENITIES				
Benches for players	-	EA	\$ 2,500.00	\$ -
Bleachers	-	EA	\$ 5,000.00	\$ -
Park Benches	8	EA	\$ 2,500.00	\$ 20,000
Picnic Shelters - 2, Allowance	2	LS	\$ 10,000.00	\$ 20,000
Shed - 1, Allowance	-	LS	\$ 80,000.00	\$ -
Guardrails, Steel, Galvanized	145	LF	\$ 150.00	\$ 21,750
Handrails, Steel, Galvanized	-	LF	\$ 100.00	\$ -
Boulders	50	EA	\$ 150.00	\$ 7,500
Drinking Fountain	1	EA	\$ 10,000.00	\$ 10,000
Litter and Recycling Receptacles	4	EA	\$ 3,000.00	\$ 12,000
Restroom, Prefab, Allowance	1	LS	\$ 270,000.00	\$ 270,000
Reflexology, Relocation, Allowance	1	LS	\$ 10,000.00	\$ 10,000
Labrynth, Allowance	1	LS	\$ 20,000.00	\$ 20,000
			SUBTOTAL	\$ 391,250
PLAYGROUND				
Poured in place safety surfacing, with crushed rock base and under drains	6,923	SF	\$ 30.00	\$ 207,690
Play equipment, Allowance	1	LS	\$ 80,000.00	\$ 80,000
Embankment Slide, Allowance	1	LS	\$ 20,000.00	\$ 20,000
			SUBTOTAL	\$ 307,690

SYNTHETIC TURF SURFACING

Under drainage (4" perf lines, in pea gravel, 15' OC)	-	SF	\$	1.20	\$	-
Mirafi	-	SF	\$	0.15	\$	-
6" Base Course	-	SF	\$	2.00	\$	-
2" Top Course	-	SF	\$	1.00	\$	-
Wash Water System, qcv	-	EA	\$	3,000.00	\$	-
Synthetic Turf with Athletic Lines (with crumb rubber infill)	-	SF	\$	6.25	\$	-
Fall attenuation layer	-	SF	\$	-	\$	-
6"x12" Reinforced Perimeter Curb w/ Turf Anchors	-	LF	\$	40.00	\$	-

SUBTOTAL**FENCING - BLACK VINYL**

Backstop - 20'-0"	-	LF	\$	90.00	\$	-
Field Fencing - 12'-0"	-	LF	\$	50.00	\$	-
Field Fencing - 6'-0"	-	LF	\$	40.00	\$	-
Gate - 6'-0", 4'-0" wide	2	EA	\$	600.00	\$	1,200
Gate - 6'-0", 10'-0" wide, double swing	-	EA	\$	2,500.00	\$	-

SUBTOTAL \$ 1,200**GRAND****TOTAL \$ 1,029,330**



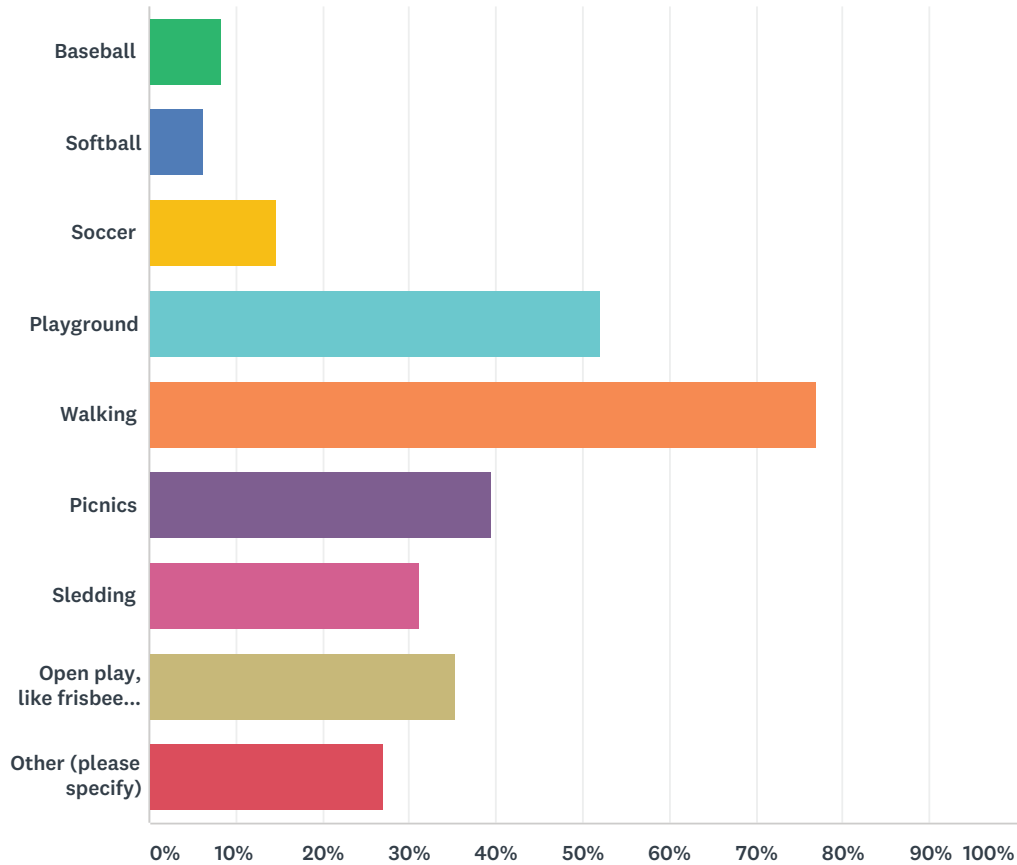
APPENDIX 5

SURVEY #1 RESULTS

132nd Square Park Improvements

Q1 How do you currently use the park? You may select more than one.

Answered: 48 Skipped: 0



ANSWER CHOICES		RESPONSES	
Baseball		8.33%	4
Softball		6.25%	3
Soccer		14.58%	7
Playground		52.08%	25
Walking		77.08%	37
Picnics		39.58%	19
Sledding		31.25%	15
Open play, like frisbee, volleyball, or badminton		35.42%	17
Other (please specify)		27.08%	13
Total Respondents: 48			

#	OTHER (PLEASE SPECIFY)	DATE
1	Running and motor skills development with toddlers	6/12/2019 4:56 PM
2	enjoying nature and quiet	6/5/2019 9:45 PM

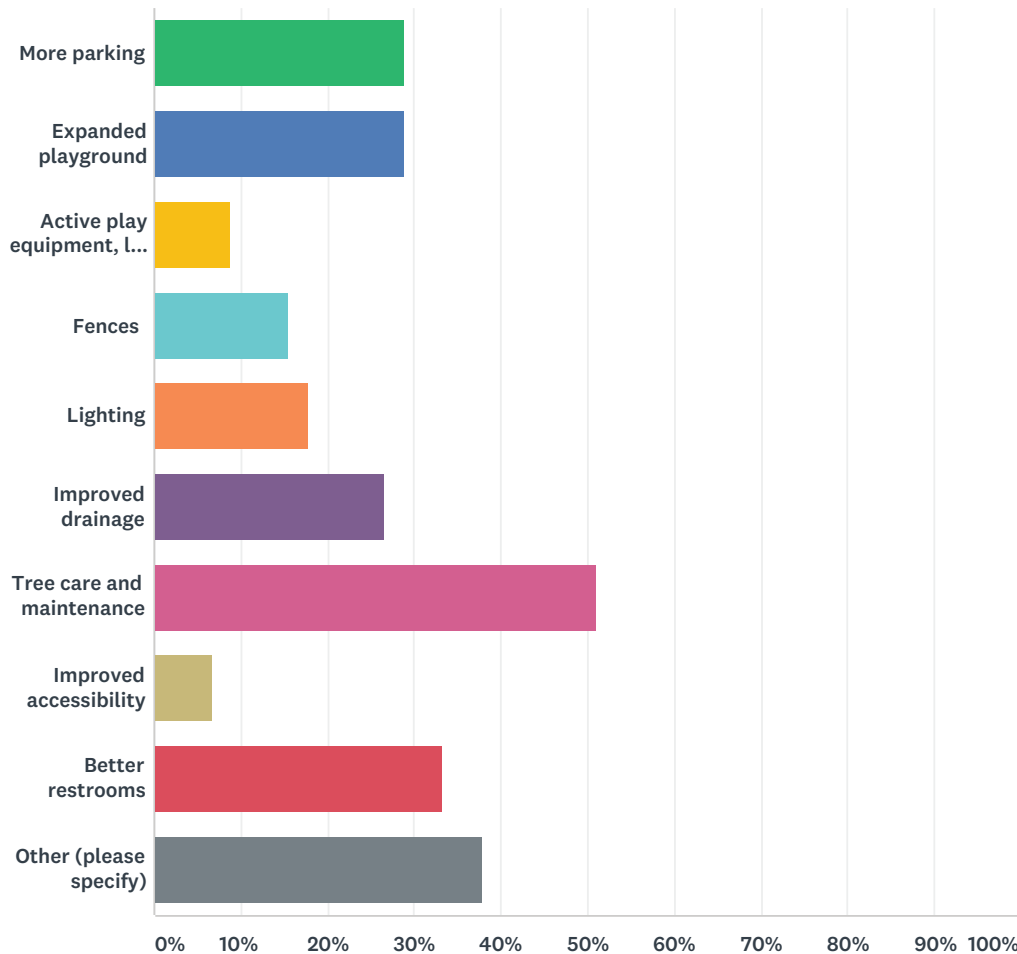
132nd Square Park Improvements

3	golf frisbie	5/16/2019 2:19 PM
4	Pokemon go (many community events / days)	5/16/2019 2:18 PM
5	Swings	5/16/2019 2:10 PM
6	dog walking	5/16/2019 2:08 PM
7	dog play	5/16/2019 2:07 PM
8	I live on the park	5/16/2019 2:05 PM
9	dog play	5/16/2019 2:04 PM
10	dog walking	5/16/2019 1:59 PM
11	none	5/16/2019 1:57 PM
12	Star, moon viewing	5/9/2019 5:19 PM
13	Not much	5/9/2019 4:09 PM

132nd Square Park Improvements

Q2 What additional features would you like included as part of the park? You may select more than one.

Answered: 45 Skipped: 3



ANSWER CHOICES	RESPONSES	
More parking	28.89%	13
Expanded playground	28.89%	13
Active play equipment, like a ping pong table or disc golf	8.89%	4
Fences	15.56%	7
Lighting	17.78%	8
Improved drainage	26.67%	12
Tree care and maintenance	51.11%	23
Improved accessibility	6.67%	3
Better restrooms	33.33%	15
Other (please specify)	37.78%	17

132nd Square Park Improvements

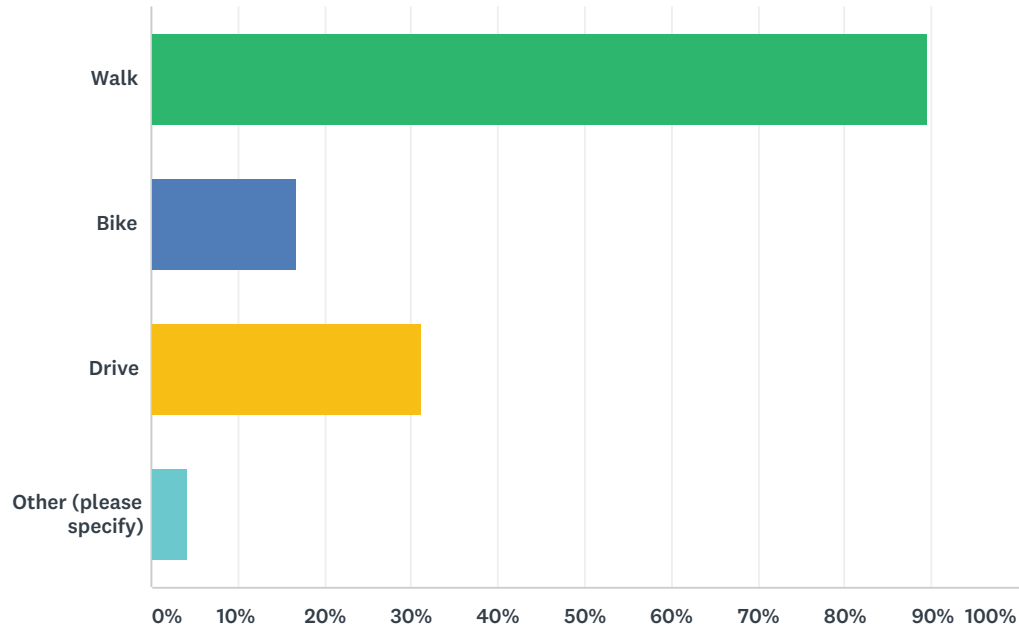
Total Respondents: 45

#	OTHER (PLEASE SPECIFY)	DATE
1	Yellow jacket control in the summer	6/10/2019 3:51 PM
2	NO lighting! Dusk is late enough during the summer for noise and light.	6/5/2019 9:45 PM
3	Would like another picnic shelter.	5/28/2019 4:30 PM
4	fences especially around playground	5/16/2019 2:14 PM
5	pickleball courts (2)	5/16/2019 2:12 PM
6	off leash area for dogs	5/16/2019 2:10 PM
7	dog off leash area would be great	5/16/2019 2:07 PM
8	water fountain that works all year. dog water fountain	5/16/2019 2:04 PM
9	More natural landscape. No organized sports fields	5/16/2019 2:02 PM
10	Off leash dog park	5/16/2019 2:00 PM
11	Better biking/nonmotorized path	5/15/2019 9:36 PM
12	Barbeque stands, water and sinks and power for picnics.	5/9/2019 5:19 PM
13	Off leash dog area	5/9/2019 4:09 PM
14	walking paths	5/8/2019 3:17 PM
15	Leave it alone	5/7/2019 4:07 PM
16	I think the park is great as it is	5/7/2019 8:37 AM
17	Water Park!!	4/27/2019 12:32 PM

132nd Square Park Improvements

Q3 How do you get to the park?

Answered: 48 Skipped: 0



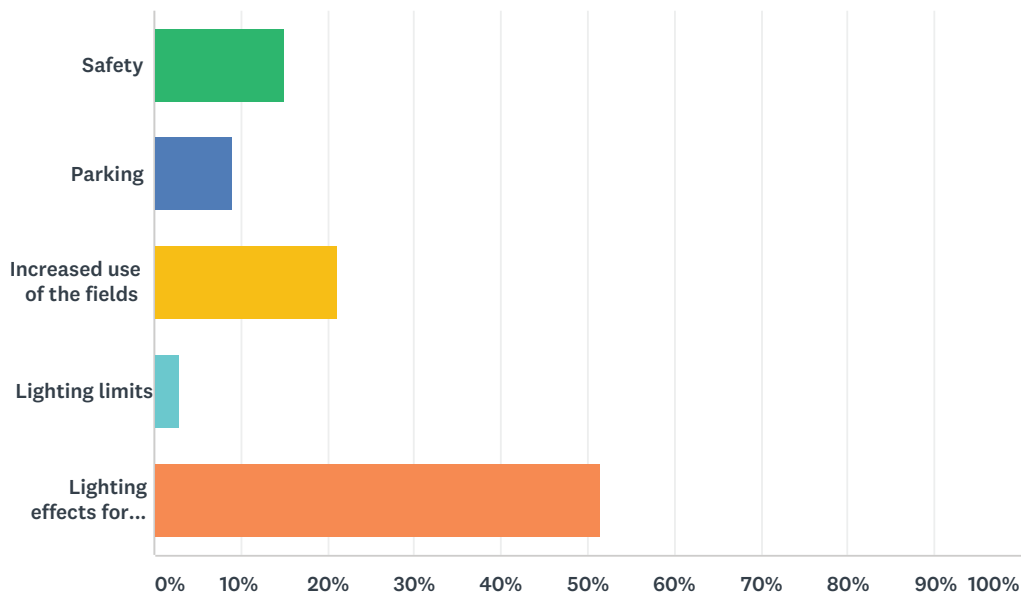
ANSWER CHOICES		RESPONSES	
Walk		89.58%	43
Bike		16.67%	8
Drive		31.25%	15
Other (please specify)		4.17%	2
Total Respondents: 48			

#	OTHER (PLEASE SPECIFY)	DATE
1	Bus	6/12/2019 1:09 AM
2	the park is my back yard	5/16/2019 2:05 PM

132nd Square Park Improvements

Q4 The City is installing artificial turf and field lighting on the fields. To me, the most important consideration in adding synthetic turf and field lighting is...

Answered: 33 Skipped: 15



ANSWER CHOICES	RESPONSES
Safety	15.15% 5
Parking	9.09% 3
Increased use of the fields	21.21% 7
Lighting limits	3.03% 1
Lighting effects for neighbors	51.52% 17
TOTAL	33

#	OTHER (PLEASE SPECIFY)	DATE
1	We like the nature space with actual grass and NO LIGHTING!	6/5/2019 9:45 PM
2	I definitely do not think lighting is necessary. It is a waste of money. There does not seem to be a demand for it.	5/28/2019 4:30 PM
3	Safety, increased use of fields, lighting limits, lighting effects equally	5/16/2019 2:15 PM
4	Safety and increased use of the fields equally	5/16/2019 2:12 PM
5	Parking and increased use of the fields equally	5/16/2019 2:10 PM
6	Safety and increased use of the fields equally	5/16/2019 2:09 PM
7	All	5/16/2019 2:08 PM
8	Field access should be for neighbors also	5/16/2019 2:05 PM
9	All	5/16/2019 2:04 PM
10	DO NOT DO IT	5/16/2019 2:02 PM

132nd Square Park Improvements

11	Would prefer to keep all the grass and lighting is not needed	5/16/2019 2:00 PM
12	Field becoming available for spontaneous use	5/16/2019 1:59 PM
13	All	5/16/2019 1:57 PM
14	Most important is no lights, NO LIGHTS AND NO LIGHTS.	5/9/2019 5:19 PM
15	this is a bad idea to make a small community park into city wide park being used till late in the night. Infrastructure cannot handle the unmitigated growth the council keeps pushing. I'd rather the city pay kamaikin jhs to upgrade their facilities and let them take this on as they already have the land and parking to deal with lighting.	5/8/2019 8:36 AM
16	actual cost and too much non-neighborhood usage	5/7/2019 11:51 AM
17	I think adding synthetic turf and lighting is unnecessary as there are already plenty of playfields around the eastside for organized sports. The lights are going to have an intrusive impact on the neighbors who live around this local park.	5/7/2019 8:37 AM
18	decreased spontaneous use by the neighborhood residents	5/6/2019 11:54 PM
19	No to lighting, it will bring too many people too late, adverse effect to neighbors bordering park. Another concern is street parking that block resident sight line to enter traffic.	5/5/2019 1:06 PM
20	Lighting limits as well..	5/4/2019 8:23 PM
21	Please, no lights. Keep it neighborly!	5/2/2019 4:25 PM

132nd Square Park Improvements

Q5 Any additional comments, concerns, or questions you'd like to share for this project? Please provide a specific location if relevant.

Answered: 28 Skipped: 20

#	RESPONSES	DATE
1	My daughter is autistic and this is our closest park. I think having gate closed fencing around the playground section would be very beneficial to provide a safe environment for young children to explore while using playground. At minimum, the peripheral park fencing along busy roads should have complete fencing.	6/12/2019 4:56 PM
2	people park in the bike path on 132nd ave--it's dangerous!	6/10/2019 2:23 PM
3	N/a	6/10/2019 1:54 PM
4	We moved near the park for the open space and don't want it taken over for the sports team minority. We don't want the glaring lights and noisy crowds at night. If the drainage is changed it could impact our property.	6/5/2019 9:45 PM
5	I do not think there is a demand for lighting in the park. I realize the city is trying to make this a regional park but it is not a regional park. City should look else where to increase revenue. Also, parking and noise would be a problem for the neighborhood. The park is not used currently until dark. Alot of noise late at night (after 9 pm) in summer will affect neighbors with windows open trying to sleep. Not everyone has airconditioning.	5/28/2019 4:30 PM
6	already signed up on website	5/16/2019 2:17 PM
7	keep as natural and under developed as possible. we are losing under developed / neighborhood parks. the best canvas for a community vs neighborhood is a blank one.	5/16/2019 2:15 PM
8	parking is already congested people parking on the street reduces visibility while exiting lot. fencing is good for inclusivity for kids with disabilities tend to run away especially towards traffic. I love the idea that fencing is being considered. Pro turf fields to have year round fields to play in	5/16/2019 2:14 PM
9	Please do not put in artificial turf. it would require a higher cost to install than mowing grass. fenced parks would exclude freey play on the big field	5/16/2019 2:04 PM
10	none	5/16/2019 2:02 PM
11	none	5/16/2019 2:00 PM
12	Please include a question about the choice of artificial vs natural turf	5/16/2019 1:59 PM
13	none	5/16/2019 1:57 PM
14	Im concerned that over-scheduling the playing field will render it difficult to accommodate pick-up games (unscheduled play)	5/9/2019 5:07 PM
15	Non use of park during construction	5/9/2019 4:37 PM
16	None	5/9/2019 4:09 PM
17	this is a bad idea. more traffic the roads cant handle. upgrade the park but do not put in lights. this will automatically limit the biggest concern of us who live nearby. late night use and noise and additional traffic.	5/8/2019 8:36 AM
18	We love this park in being an open-play space for anyone and everyone to use.	5/7/2019 4:07 PM
19	It's disappointing that the city could not improve this park so the neighborhood took on the project. Now that it's decent, the City plans to remove a wonderful natural area for more concrete/turf. Once that grass is gone, it's gone forever. I am saddened to raise our children in a place that doesn't value nature.	5/7/2019 12:43 PM
20	This was a neighborhood park and The City is now using it to better suit them and the ballplayers through the City. Just build a park elsewhere and stop taking away our neighborhood by force.	5/7/2019 11:51 AM
21	"Don't it always seem to go that you don't know what you've got 'til it's gone? They paved paradise [or installed artificial turf] put up a parking lot"--Joni Mitchell	5/7/2019 8:37 AM

132nd Square Park Improvements

22	concerned the artificial turf will exclude many uses and users. This is the only park for neighbors within about a mile radius. Natural turf with better drainage would be may preferred replacement. I do not want to see the fields be scheduled so much that the neighborhood loses access.	5/6/2019 11:54 PM
23	Living next to the park I wonder about disruptions & inconvenience during construction. And traffic/parking & proposed lighting when complete. Parking along NE 132nd street on Saturday mornings right now causes a safety issue getting out of our street 130th Lane NE. There should not be parking allowed on NE 132nd street but then where does everyone park?	5/6/2019 8:14 AM
24	See above about lighting & parking concern	5/5/2019 1:06 PM
25	We live next to the park and have concerns about environmental impact of stormwater collecting and processing in close proximity to our homes.	5/4/2019 8:40 PM
26	Concerned about Noise and Crime. Our neighborhood shares the fence along the entrance of the park. Park lighting and entrance needs to have time limits. Major concern about the effect of value of our properties with these major changes. The people that currently use the park helped to rebuild the park a number of years ago so they have an ownership in their park. At this time there is not enough parking currently without making the suggested changes. When the overflow parking is on the street there is no way to see if a car is approaching from the West. Not safe! Changes are good but we need to be considerate of all of the neighbors who butt up against the park.	5/4/2019 8:23 PM
27	Please keep this park an asset to the citizens, not the City! No lights.	5/2/2019 4:25 PM
28	With the expansion of the kingsgate area, this is the only park in the area, so why not make it a showcase park. The synthetic fields will add valued play year round. With the advancements in LED lighting, lights will bring an added value to the park and reduce the ambient light lost to the neighbors. This park would greatly benefit if it had a splash pad and water features. Fall all the cottonwood trees which will reduce maintenance costs. Thank you for the consideration.	4/27/2019 12:32 PM

132nd Square Park Improvements

Q6 Provide your contact information below to receive project updates.

Answered: 48 Skipped: 0

ANSWER CHOICES	RESPONSES	
First Name	100.00%	48
Last Name	100.00%	48
Street Address	83.33%	40
Apt/Suite/Office	12.50%	6
City	89.58%	43
Email Address	95.83%	46



132ND SQUARE PARK RETROFIT FAC



MISCELLANEOUS QUEST

WHAT ADDITIONAL QUESTIONS DO YOU HAVE?
PLEASE LET US KNOW WHAT OPPORTUNITIES, CONCERNS, OR COMMENTS YOU HAVE.

Handwritten survey responses on sticky notes:

- 1. 1.5% more seating area
- 2. 2. 1.5% more seating area
- 3. 3. 1.5% more seating area
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- 100. 100. 1.5% more seating area

APPENDIX 6 SURVEY #2 RESULTS

8/22/2019

132nd Square Park Improvements - Responses | SurveyMonkey

W

132nd Square Park Improvements Results

QUESTION SUMMARIES

DATA TRENDS

INDIVIDUAL RESPONSES

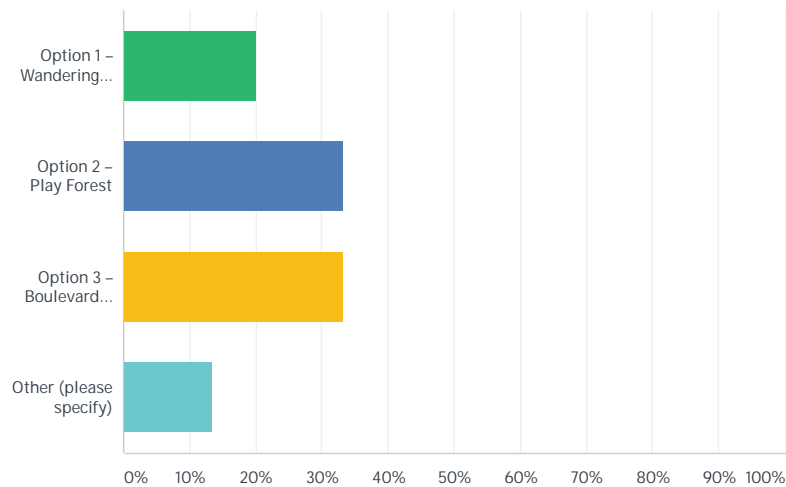
All Pages —

Q1

W

Please review the three concepts and vote on which one appeals most to you.

Answered: 15 Skipped: 0



ANSWER CHOICES

RESPONSES

Option 1 - Wandering Woodlands	20.00%	3
Option 2 - Play Forest	33.33%	5
Option 3 - Boulevard Stroll	33.33%	5
Other (please specify)	13.33%	2

Don't include Disc Golf which won't be used and takes up too much space, no need to expand parking, remodel restrooms and put \$\$ towards improving what's already there (Fields, playground, seating, picnic area...)

8/14/2019 8:22 PM

Option 1 - plus synthetic ball field instead of natural grass

7/3/2019 7:49 PM

8/22/2019

132nd Square Park Improvements - Responses | SurveyMonkey

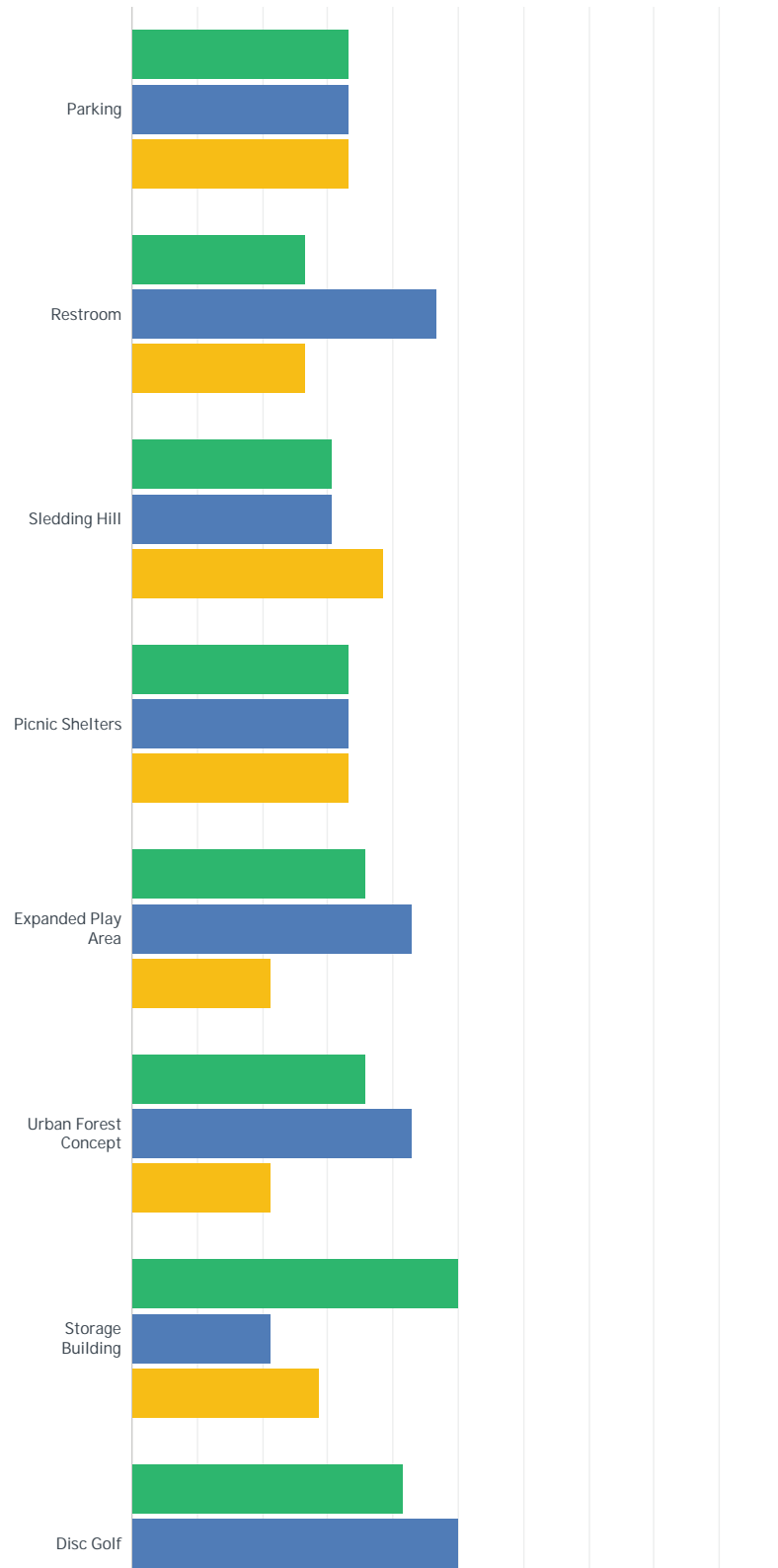
W

Q2

W

Please review the above included park amenities and vote on which design approach you prefer for each amenity.

Answered: 15 Skipped: 0



8/22/2019

132nd Square Park Improvements - Responses | SurveyMonkey

W

Option 1 – wandering woodlands Option 2 – Play Forest
Option 3 – Boulevard Stroll

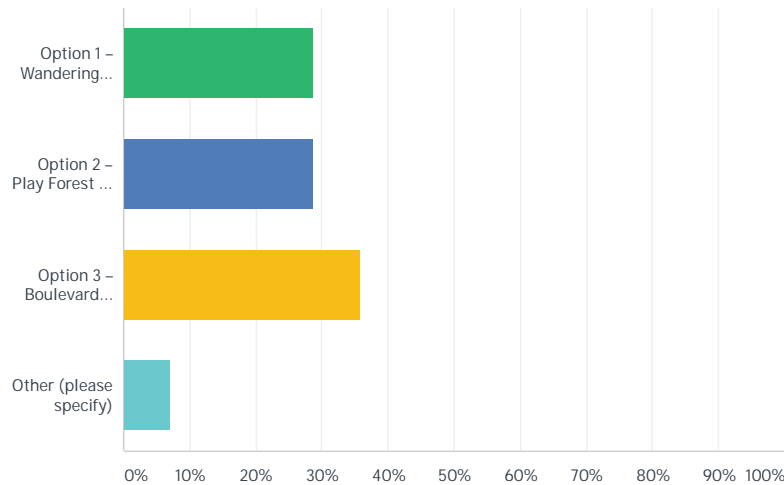
	OPTION 1 – WANDERING WOODLANDS	OPTION 2 – PLAY FOREST	OPTION 3 – BOULEVARD STROLL	TOTAL	WEIGHTED AVERAGE
Parking	33.33% 5	33.33% 5	33.33% 5	15	2.00
Restroom	26.67% 4	46.67% 7	26.67% 4	15	2.00
Sledding Hill	30.77% 4	30.77% 4	38.46% 5	13	2.08
Picnic Shelters	33.33% 5	33.33% 5	33.33% 5	15	2.00
Expanded Play Area	35.71% 5	42.86% 6	21.43% 3	14	1.86
Urban Forest Concept	35.71% 5	42.86% 6	21.43% 3	14	1.86
Storage Building	50.00% 7	21.43% 3	28.57% 4	14	1.79
Disc Golf	41.67% 5	50.00% 6	8.33% 1	12	1.67

Q3

W

What level of parking expansion do you prefer?

Answered: 14 Skipped: 1



ANSWER CHOICES

RESPONSES

Option 1 – Wandering Woodlands (No parking added, 60 total stalls)	28.57%	4
Option 2 – Play Forest (20 parking stalls added, 80 total stalls, allows for drop-off and pick-up)	28.57%	4
Option 3 – Boulevard Stroll (60 parking stalls added, 120 total stalls, allows for drop-off and pick-up)	35.71%	5
Other (please specify)	7.14%	1

Like Option 2 but Option 1 should add a Drop off/Pick up lane

7/3/2019 5:16 PM

8/22/2019

132nd Square Park Improvements - Responses | SurveyMonkey



W

TOTAL

14

Q4

W

What is your largest remaining concern regarding field lighting?

Answered: 8 Skipped: 7

Light pollution impact on surrounding area. I have a larger concern the City is encouraging a higher demand for more parking with the wording of these questions and the higher number of survey questions about parking. If the City really wants to implement its own goals for a multimodal system, please show more bike parking, sidewalk improvements or specific accommodations for transit access to parks.

7/10/2019 1:26 AM

Use new style lights that keep the light downward & focused on the fields to lessen the impact to the neighbors

7/9/2019 4:31 PM

Brightness - avoid too bright

7/6/2019 7:00 AM

Effects on migrating birds

7/6/2019 6:55 AM

No concerns

7/3/2019 7:17 PM

None!! Please light the fields - this would be amazing

7/3/2019 5:49 PM

None. Current tech is excellent and spill over will be minimal.

7/3/2019 5:16 PM

None

7/3/2019 4:40 PM

8/22/2019

132nd Square Park Improvements - Responses | SurveyMonkey



W

Q5

W

Provide your contact information below to receive project updates.

Answered: 14 Skipped: 1

ANSWER CHOICES		RESPONSES	
First Name	Responses	100.00%	14
Last Name	Responses	100.00%	14
Street Address	Responses	92.86%	13
Apt/Suite/Office	Responses	0.00%	0
City	Responses	85.71%	12
Email Address	Responses	85.71%	12

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