LANSAG

February 2020

ACTIVATE LANSING 2030 PARKS AND RECREATION MASTER PLAN







THE PHYSICAL DEVELOPMENT OF THE PARK LAND IN THE CITY OF LANSING, KANSAS.

LANSING, KANSAS:

SECTION 1. TITLE. This Resolution shall adopt the 2020 Parks Master Plan.

SECTION 2. ADOPTION. Whereas the Lansing Parks and Recreation Department surveyed the citizens of Lansing, published notices and held public input sessions on September 13, 2019, September 14, 2019 and October 12, 2019, to seek the comments of the general public for the 2020 Parks Master Plan. The Governing Body of the City of Lansing, Leavenworth County, Kansas, hereby approves the 2020 Parks Master Plan.

SECTION 3. NUMBER OF COPIES. There shall be not less than one (1) copy of the officially adopted 2020 Parks Master Plan kept on file in the office of the City Clerk and made available for inspection by the public at all reasonable hours. The file copy of the Parks Master Plan shall be marked or stamped, "Official Copy of the City of Lansing, Kansas."

SECTION 4. REPEAL. That all sections of Resolutions or portions thereof in conflict herewith be, and the same are hereby, repealed.

SECTION 5. EFFECTIVE DATE. This Resolution shall be in effect upon passage and approval of the governing body of the City of Lansing, Kansas.

PASSED AND APPROVED by the governing body of the City of Lansing, County of Leavenworth, State of Kansas, this 20th day of February 2020.

ATTEST:

Sarah Bodensteiner, City Clerk {SEAL}

RESOLUTION B-1-2020

A RESOLUTION ADOPTING THE 2020 PARKS MASTER PLAN FOR THE CITY OF LANSING, KANSAS; AND ESTABLISHING FUTURE RECOMMENDATIONS FOR

BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF

CITY OF LANSING

Michael W. Smith, Mayor



ACKNOWLEDGMENTS

Lansing Parks and Recreation **Advisory Board**

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Public Engagement and Survey

All Survey Respondents All Members of the Community that Participated

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Special Thanks To

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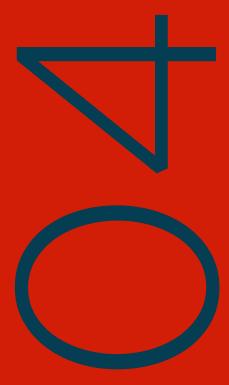
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INTRODUCTION



Executive Summary

The City of Lansing is growing. As development occurs and the population expands, new residents will create additional demand for parks and recreation facilities. The City of Lansing Parks Master Plan, Activate Lansing 2030, is intended to guide development of the municipal parks system for the period between 2019 and 2030. A parks and recreation master plan is a long-term vision and plan of action for a community's park system. Currently, the City of Lansing has 7 park facilities. Five of them have been developed to some capacity and 2 have not been developed at all. This master plan provides recommendations for 5 of Lansing's parks. This plan identifies strategies and techniques for improving and updating the operation facilities of parks, better and updated facilities and even distribution of improvements throughout the community. Through this plan, the City of Lansing intends to continue improving the level and quality of

its parks to meet the needs of current and future residents.

The Plan guides future development and management efforts for the City of Lansing's park system over the next 10 years. Specifically, the Plan:

- Creates a community profile of Lansing and its residents;
- Provides an inventory of existing parks and an analysis of each site;
- Identifies current and future park needs using input from the community as well as stakeholder groups;
- Includes a conceptual design layout for key parks within the system;
- Proposes an updated city-wide trail plan;
- Provides a maintenance plan for streamlining maintenance practices; and
- Details an implementation plan for achieving all of the goals identified in this plan.





Purpose of the Master Plan

The purpose of the Parks & Recreation Master Pla is to be a modern planning document to serve as guide to address capital improvement projects, fun ing strategies, maintenance standards, and a fram work for evaluating future park expansion, program uses and recreational needs in the community for the next 10 years.

The most recent discussions of the parks and recr ation long range plan was completed in 2014 as part the City of Lansing's Comprehensive Plan. Althoug insightful, it did not directly address parks and recr ation's mission with complete clarity, or in great deta Implementing an independent Parks Master Plan a sists in achieving the following objectives:

- Determine values and priorities through citizen engagement strategies
- Work with City Parks & Recreation staff and othe internal stakeholders to identify needs and issue
- Develop an updated Master Plan, complete with project priorities, timelines, maps, and detailed

Plan as a		opinions of probable costs
nd- • me- ms, the •	•	Develop and recommend city policies regarding parks, recreation, open space, and trails
	•	Evaluate and prioritize the expenditure of public funds for possible land acquisition, development, and maintenance for recreational lands and facil- ities
t of ugh cre-	•	Identify and prioritize potential improvements in existing parks
tail. as- •	Serve as the primary planning document for City of Lansing's Department of Parks and Recreation for the next 10 years	
hor	•	Evaluate and audit conditions of existing park facilities
her Ies	•	Identify future funding sources
h		

Lansing Master Plan Goals/Guiding Principles

This master plan establishes long-term goals for Lansing's park system beginning with guiding principles that capture what the park system strives to be in the future. These goals and guiding principles are important to keep in mind while making decisions that impact a community's access to green space.

Every community is different and has unique needs, which are identified in this master plan, which these principals specifically address. These were referenced when any design, or recommendation was being made in this master plan. These have been identified as the best possible goals and guiding principles for Lansing's park system and its community.

Access to parks, green space, and public space is a right for all members of the community; therefore, all park space should be inclusive, all park improvements, or decisions should be made based on the needs of the people and be as equitable as possible. That is the main purpose for these goals and guiding principles and, ultimately, this master plan.

Guiding principles are constant and articulate the core ideals that guide the master plan and the agency direction over the plan's 10-year time window. The following are our guiding principles:



Inspire a Passion for Parks

Respond to changing needs and trends; proactively manage facilities and program assets; engage and listen to the community.

Meet Changing Recreation Needs

Provide focused, high quality programs and services; maintain system quality and condition; embrace, lead and implement new ideas and best practices; integrate technology, and measure performance.

Advance Park System Excellence

Collaborate with schools and public agencies and non-profits; surrounding communities, programs and services with others; expand relationships with the private sector; contribute to the local economy; empower volunteers and the community.

Strengthen and Foster Partnerships

Provide quality facilities, programs and services to all communities; balance the distribution of parks, programs and facilities; ensure these are accessible and affordable.

Be Equitable and Inclusive

Integrate stewardship and sustainability and ethics in all our plans and actions; raise awareness and appreciation for natural and cultural resources; serve as a model for nature conservation; protect and actively manage natural and cultural resources; be committed to responsible management.

Be Great Stewards

Provide facilities and programs for all ages to promote life-long activity and wellness; improve park access; expand our trail system connections; provide an opportunity to connect with nature.

Planning Process Overview

The planning process for this Parks & Recreation Master Plan is extensive. To create a comprehensive, equitable plan for future park expansion and improvements, many factors need to be considered. The master plan contains four basic areas of data gathering and production, which make up the core of the document:

- **Existing Conditions**
- Community Input
- Site Analysis
- **Designs and Recommendations**

Existing conditions are essential to creating any master plan document. It consists of gathering data on the City of Lansing, its history, culture, and the current population/demographics of the city. This allows the design team to plan specifically for the needs of Lansing and its community.

Community input is the most essential component to creating a master plan. It allows the design team to discuss and document all of the needs community members might have when it comes to green space, recreation, and public space. From this, the design team is able to gather a list of specific types of facilities and amenities that the community in Lansing would like to see and create park designs and plans from that feedback.

Site analysis is done prior to the design and recommendation phase, it's essentially an existing condition analysis for each of the parks in the Lansing parks system. The elements that are noted are typically existing structures, tree coverage, slopes, and areas for improvement and circulation. This helps guide the future design and improvement recommendations for each of the parks.

After taking all of these factors into account, the final designs and recommendations are made for each of the parks, as well as overall system improvements. This planning process helps ensure that the Parks & Recreation Master Plan is done equitably and meets all of the needs of the community in the City of Lansing.



Plan Review





Adopted in 2014

The current comprehensive plan, adopt-particularly, sections referenced were ed in 2014, provides visions and goals the city-wide trail map, expansion recset to serve the City of Lansing through ommendations and maintenance recomthe year 2030. This master plan will also mendations. The trail map provided in the serve as a guidebook until 2030, as well. comprehensive plan went through heavy With that in mind, the comprehensive revision with staff and residents, thereplan provides a lot of recent data and fore great care was taken to making any analysis that is important to guiding this changes to the new trails plan. Both of the master plan, where this parks and rec-sections referring to expansion and mainreation master plan seeks to fulfill many tenance recommendations, were thorof the goals and recommendations that oughly analyzed and considered when were proposed for Parks and Recreation making the recommendations in this in the comprehensive plan. master plan. This consideration was also taken when designing park spaces and Overall, this plan was heavily refer-suggesting new maintenance practices. enced when creating this master plan, to This master plan follows all pertinent instay in accordance with goals and rec- formation from the comprehensive plan, ommendations created as part of the with small changes based on community comprehensive planning process. Most input.



COMPREHENSIVE PLAN

CITY OF LANSING, KANSAS

LANSING COMMUNITY PAR

Angel Falls Park/ Bittersweet Park **Master Plan**

Adopted in 2003

This master plan was completed in people of all ages, which follows the 2005 and still holds many sound design same guidelines as the previous master decisions in terms of which amenities to plan. Along with those design recomrelocate or add to Bernard Park. The de- mendations, many of the studies done sign team is very familiar with this mas- on the park (sewer, electrical, etc.) are ter plan, as one of the original authors is still valid and accurate and, therefore, now a part of the current design team. referenced when creating the updated This gave the team a lot of insight into design and plan. the previous master plan.

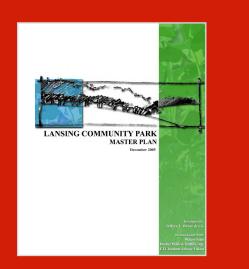
Kenneth W. Bernard

Community Park

Master Plan

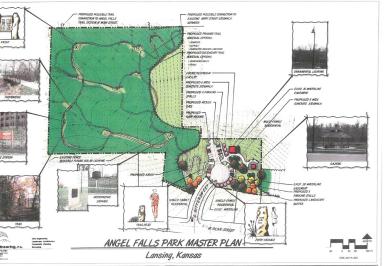
Adopted in 2005

Overall, the needs of this park are relatively the same, with minor changes. Bernard Park remains to be Lansing's biggest piece of park land and is still mostly undeveloped, even after phase one of development from the previous master plan. The previous design and current uses for Bernard Park heavily influenced the new park design and master plan. This park space still holds enough acreage to be the new location for all of Lansing's sports facilities, as well as many other activities for

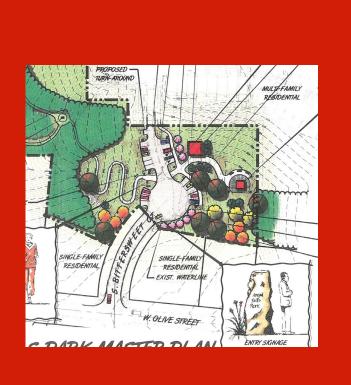


The name of this park property changes to Bittersweet Park in this document, as not to be confused with the Angel Falls Trail, a separate park property. This park is very unique in that the far Eastern edge has an outlook over the whole city, and the other 80% of the park consists of dense trees and steep slopes. With these characteristics, the park is not easily developable, which makes for a great nature park with a trail. The previous master plan recommends just that, as well as emphasizing the overlook area. Based on the nature of the park, which hasn't changed since this master plan was adopted in 2003, these design recommendations are still very much valid. The previous master plan was reviewed and used to guide the new design for the park, while making improvements and new suggestions.









Kelly Grove Park **Master Plan**

Adopted in 1996

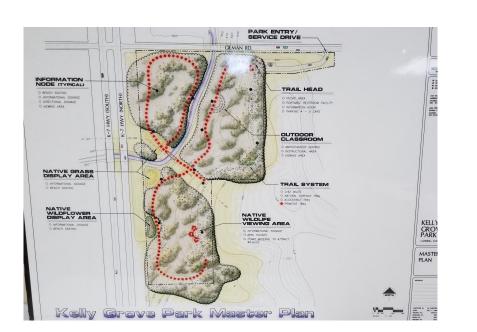
The previous master plan provides With that being said, the slope of the good direction on how to design this park and the dense tree coverage make park. To date, Kelly Grove Park doesn't creating a paved trail very difficult and have paved parking, or any paved trails. expensive. The design team looked at This park is located in floodplain, which alternatives to making an ADA accessimakes it difficult to use during parts of ble area of the park that allowed for prothe year and after major rain events. The longed use. As this park is classified as 1996 master plan doesn't account for use a nature preserve, the uses of the park of the park during flooding conditions, were kept non-intrusive; only adding which was noted when creating the new trails and native elements. plan for the park.

and Culture

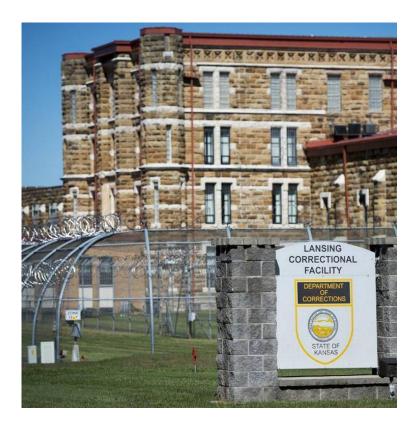
Lansing is a city of approximately 11,771 people, located on the far Eastern side of Leavenworth County. Lansing also lies along the Missouri River, and with it, the Missouri-Kansas State Border; making it in close proximity to the Kansas City International Airport. Lansing got its name from James Lansing, who was a pioneering settler. His name was formerly William Lansing Taylor, who changed his name when he enlisted in 1862 as a hospital steward in the 7th Kansas Calvary. Post Civil War, he began working in the new Kansas State Prison, from which he later resigned and opened a general store. This housed a post office and an apothecary in the area called "Town of Progress". Lansing and a friend, John C. Schmidt, co-bought 90 acres of land that were then platted into city lots in 1878. It was called the "Town of Lansing", but wasn't officially incorporated until 1959.

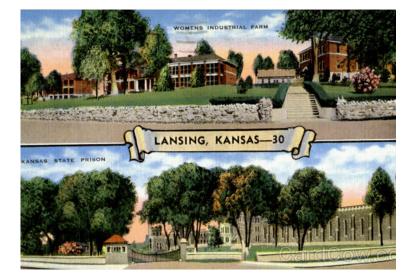
In 1990, the Kansas State Prison was renamed the Lansing Correctional Facility. To date, it is Kansas' largest and oldest detention center for the rehabilitation of male adult felons.

Source: City of Lansing









Over the years, Lansing has grown and evolved consistently, from growing in population, to shifting the main industries that employ residents of Lansing. In 2002, the industries that employed the most residents were: educational services (23.5%), manufacturing (15.8%), and health care and social assistance (12.7%). The top three industries that employed the most Lansing residents in 2017 shifted to: public administration (28.4%), educational services (20.3%), and accommodation and food services (15.7%). This shows the changes in the city landscape with new businesses, offices and restaurants, versus the land being used for production.

Outside of the workplace, Lansing has its own unique culture. Lansing holds many events for the entire City to participate in, as well as neighboring communities. These include Lansing Daze, the Fishing Derby, the 4th of July Celebration, BBQ competitions and many others. These are all organized through the City and from a place of pride for Lansing. In addition, Lansing also hosts many sporting events and teams for soccer, baseball, softball, as well as programs through the schools. Community schools are a big part of Lansing's identity and sense of community. This plan seeks to allow Lansing's culture of city and school pride to further flourish in the coming years.

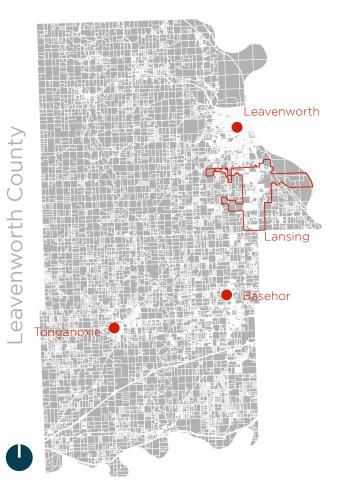
Source: City of Lansing











Context Map

Lansing is the second largest city in Leavenworth County, Kansas, with the first being Leavenworth. Lansing is located directly South of Leavenworth and they share a North/South border with each other. The next largest cities in Leavenworth County are Basehor and Tonganoxie. Leavenworth County is bordered by the Missouri River on the North East and by the Kansas River to the South. Lansing is a part of the Kansas City Metropolitan Statistical Area and borders on Kansas City, Kansas to the South, making it very close to both the Kansas City International Airport and the Kansas Speedway.

Introduction

This section contains the existing conditions of Lansing, the park system, and the analysis of how these conditions affect park spaces. There were many different factors that were considered in this analysis. The main factors that are represented in this section are: zoning, population, natural resources, accessibility and park service coverage. These factors were chosen based on how they specifically impact parks, the nature of that impact and the implications for the future. These factors then played an important role in the overall analysis of Lansing and its parks because each new piece of information, or dataset, allows the design team to more accurately plan and design for the future of Lansing.

All of the maps were created using GIS (geographical information system) and the data was either created, or provided by, the City of Lansing, Leavenworth County, or Landworks Studio.

The layers used in the maps and illustrations include:

- Parcels
- Road Centerline
- Parks
- Floodplain
- ٠ Zoning
- Census Tracts

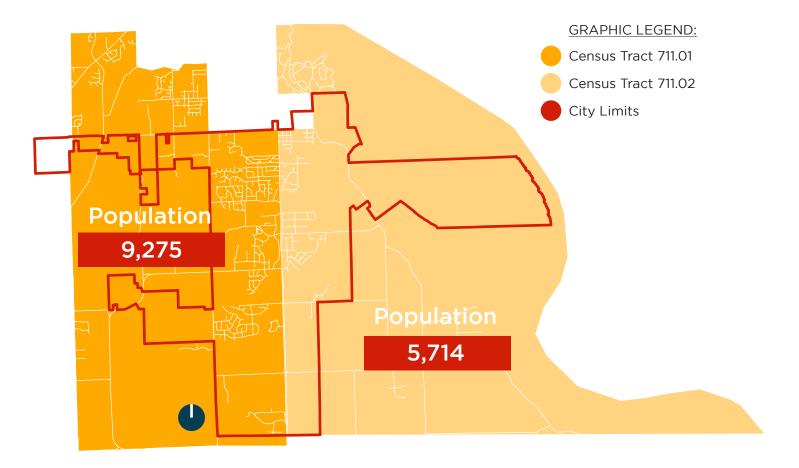
- Urban Land Cover
- Roads
- Sidewalks
- City Boundaries
- Topography



Zoning and Parks

The city-wide zoning shown above allows us er than car. The ideal conditions for parks are: to see what development is allowed where, to be in a safe environment with eyes on the and most importantly, what is allowed to be street, have them be accessible within walkbuilt next to each other. Lansing's park propering distance for residents, and preserve open ties are shown in dark green and are identified space. This typically means close proximity above. If each park is looked at individually. to residential populations. Most of the other most parks aren't surrounded by "undesirable parks in the park system are surrounded by development". agricultural and this can have two connotations. One being that it is surrounded by other "Undesirable development" is characterized open space and the landscape is being preas being non-conducive of recreational acserved, two being that the park is discontivities. For example, industrial zoning, which nected from the rest of the city because of distance, or lack of connectivity. In this case, is typically categorized as having extensive pavement, unattractive exteriors and minor agricultural development might be hindering street activity. The only park property adjathe use of parks because of the distance from the center of Lansing. This is especially true cent to industrial development is City Park. This property is challenged to encourage for Bernard Park, which is both the biggest and the farthest from the city. The actual conresidents to feel comfortable using the park nectivity of the parks will be addressed later throughout the day, and also challenged with accessibility by modes of transportation oth- on.

3	 MUNICIPAL ZONING: R-1 Suburban Residential R-2 Single Family Residential R-3 Duplex Residential R-4 Multi-Family Residential RR-2.5 Rural Residential A-1 Agricultural B-1 Neighborhood Business B-2 Commercial Business I-1 Light Industrial I-2 Heavy Industrial Planned Unit Development (PUD) City Park Land



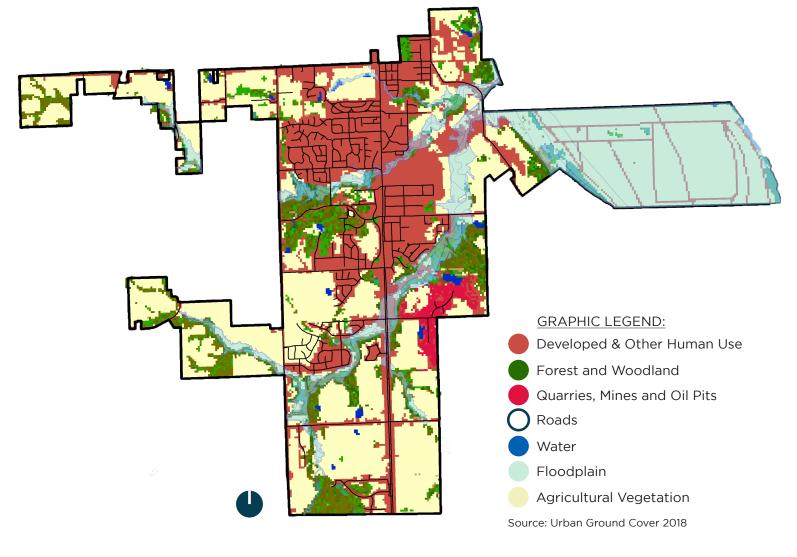
Resources

er, as well as having Sevenmile and Ninmeans that there are many natural remaintain natural ecosystems, plant and animal life, as well as open the door

Population

The map above shows Lansing's city limits Lansing lives. The map above gives a better and the two census tracts that are associated with Lansing's demographic data. The lation lives in and around Lansing. The West U.S Census draws boundaries to use when collecting demographic information about has a greater population than the East side, cities and populations. The census also has smaller boundaries called block groups that of the population is growing on the West more accurately show where age groups, or most of the population lies. However, Lansing only has census tracts. While there is need to be more park service on the more Lansing specific data, pulled from within populated side of Lansing. The population the depicted city limits, this doesn't necessarily show where most of the population in

understanding of where most of the popuside, with Highway 7 being the dividing line, near the Missouri River. This shows that most side of Lansing, rather than the East, allowing the prediction to be made that there will data that was used is the 2017 ACS.



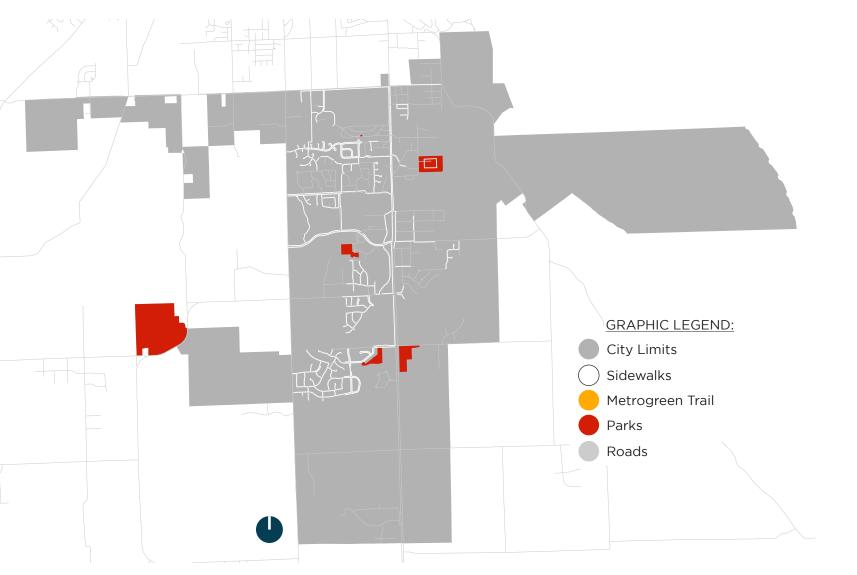
that the surrounding river and the two

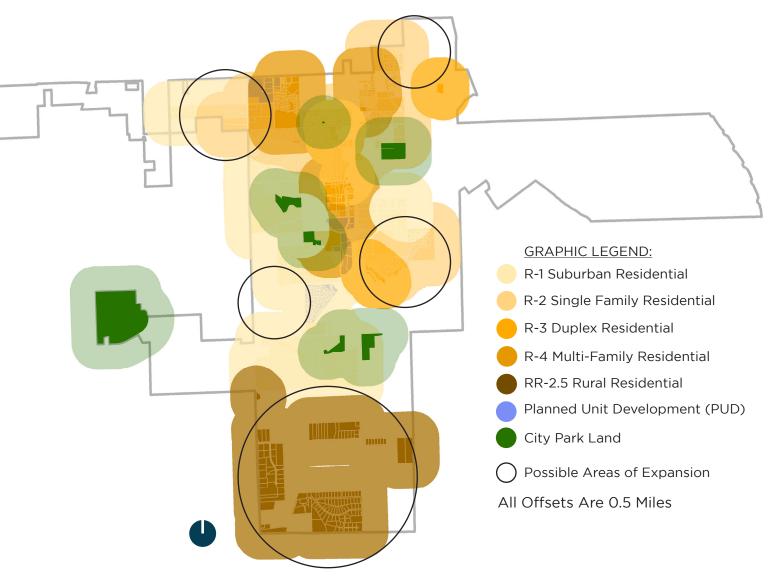
Lansing's proximity to the Missouri Riv- creeks running through Lansing, have floodplains associated with them. This emile Creek running through the City, includes both frequent and infrequent flooding. These areas in the floodplain sources to take note of. Being aware of should be considered wetlands, and are and preserving natural resources helps not developable. These wetlands are particularly sensitive areas and should be preserved to hold excess water volto possible grants, or funding to help ume, filter pollutants, and create conpreserve these resources. The map tiguous habitat for critical species. This below shows that the majority of the habitat can dually be used for recrecenter of Lansing is developed, paved ation and fishing land. Other areas are and built upon, while most of the sur- shown as forest and woodland, which rounding areas are classified as agricul- should be approached with preservatural vegetation. It's important to note tion in mind as well, for similar reasons.

Accessibility

and recreation master plan, but of a parks add trail width sidewalks, or 8ft sidewalks, system as a whole, is being accessible to along major corridors to help improve conparks in red and existing sidewalks in white. accessible for pedestrians. This is especially Many of the older Lansing neighborhoods true for Bernard Park, Kelly Grove Park, City typical in that time and place for subdivi- have the least amount of sidewalk access sions. Conversely, the newer developments and were heavily considered when making have added sidewalks. This has created a connectivity recommendations. gap in the overall sidewalk network. Beyond

One of the main goals not only of this parks subdivisions, Lansing has made an effort to residents. The map below shows Lansing's nectivity. However, many parks are still not were developed without sidewalks as was Park, and Highland Playground. These parks





Gap Analysis

The goal of a gap analysis, in this case, is not the actual means to get there, unlike to show the gaps in park service in terms the previous map. The gaps in park accessiof walking distance for residents. The stan- bility are identified on the map as possible dard, universally accessible walking dis- areas for expansion, where it's suggested tance is a half mile, which is shown around that new parks be placed to serve the most the parks and each type of residential, in- residents within a walking distance. Filling dicating which residents are within walking these gaps would greatly increase park accessibility for neighborhoods and residents, distance of a park. creating a more equitable distribution of This map is specifically showing the acces- park space.

sibility of parks within a certain distance,

NRPA Park Classifications

The National Recreation and Park Association (NRPA) has national Park, Open Space, and Greenway Guidelines that provide a template for classifying parks, the number of acres a system should have, and the recommended service levels based on population. Strictly intended as guidelines, these do not consider the unique character of each community. Local trends and popularity of some activities often dictate a greater need for particular facilities. The guidelines, however, serve as a good baseline for determining a minimum standard of service. Written in 1995, they are still used today. These guidelines paired with input received from the community, participation numbers for various activities, and comparisons to similar communities were used to develop service standards for the City of Lansing. For public park providers, the NRPA guidelines suggest, "A park system, at a minimum, should be composed of a 'core' system of park lands, with a total of 6.25 to 10.5 acres of developed open space per 1,000 population" (Mertes, 1995).

Critical to the service delivery system of any department is the provision of the four basic park categories: mini, neighborhood, community and regional. Beyond these four basic park types are special-use parks, natural areas/preserves, greenways, school playgrounds and private parks/recreation facilities. Each is classified differently based upon the types of amenities, size, service area and how access is gained to the facility.



MINI PARK -

The smallest type of park, a mini park, is typically a site less than five acres. Another term, "pocket park", has been used in some instances to identify a mini park. It is designed primarily to attract residents who live within a guarter mile of the park. Generally, a walk-to type park, mini parks will not have parking facilities available for vehicles. Mini parks' service levels are .25 to .5 acres per 1000 residents. Size normally prescribes these parks to be passive, limited-activity park facilities. Common elements include benches, playgrounds and tables in an attractively landscaped setting. The parks are sometimes themed to blend in with the surrounding neighborhood. Designs sometimes match the existing homes, fencing, sidewalk pavers, etc.

NEIGHBORHOOD PARK -

Neighborhood parks are found in most city and county systems. These parks typically have 5 to 20 acres and serve a population living within a half mile of the park. Conceptually, neighborhood parks concentrate intense recreation activities and facilities into a limited amount of space. Facilities typical to this park include: play fields, playgrounds, and shelters. Parking is not necessary for this type of facility due to its scope of activities and size because most visitors are local residents. However, the standard for parking is a minimum of seven spaces for the first ten acres and one additional space for each additional acre. This may vary based upon the activities and appeal of the programs. If team sports facilities or special features such as swimming pools are included. parking spaces in the range of 40 per field, or greater, will be needed. Although the park is classified as a neighborhood park, the scope of people served can vary based upon densities and the number of other parks available. Typically, one neighborhood park should serve between 1,000 to 2,000 residents, or one to two acres per 1,000 people.

COMMUNITY PARK-

Community parks are needed within a system to ensure that all users' recreational needs and interests are addressed and included. This type of park expands beyond a local neighborhood and may sometimes include several

neighborhoods. The concept behind community parks is to provide an all-inclusive facility for recreation users. It should include a mix of active and passive activities and attract users of all ages. From sports fields to a community center, the park should provide as many recreation and support services as possible. A park of this size and scope commonly consists of 20 to 75 acres; 60 acres is considered a good size for such expansive activities. Community parks have both day and night activities. Large facilities, such as a large indoor fitness/recreation center or a multi-field sports complex, can be placed in such a facility because of the amount of space available and the ability to buffer from the surrounding community. The service area for such a facility can vary based upon the size and scope of activities offered; however, a facility of this type may serve anywhere from 5,000 to 8,000 people, or 5 to 8 acres per 1,000 people. User analyses are often based upon a service radius, while others in more urban areas may be based upon drive times.

REGIONAL PARK

The largest park typically found within a system is a regional park. These parks are normally found in large park systems. The size of a regional park varies from 50 to 250 acres depending on the type of activities and the amount of use. The service radius for this type of facility is based upon drive time and is typically within an hour's drive of most residents. Conceptually, the regional park is to provide large natural areas that can be accessed through a variety of means, from roadways to hiking and biking. Based upon the locale, it can have unique recreation areas, such as a water park or an equestrian facility coupled with natural areas. Note: Regional parks are unique to the general area. Prototypical or preferred amenities vary.

SPECIAL-USE PARK

Special-use parks are designed to meet the needs of a specific user group. An example of a special-use park would be an aquatic center, golf course, zoo or a museum. A typical feature of these parks is their ability to be good revenue generators. If maintained and properly staffed, they can provide a

substantial cash flow. These facilities can vary in size according to user demand. For example, a regulation size (par 72) golf course would need at least 140 acres, while an executive style (par 60) layout may only require 100 to 120 acres, based upon amenities such as driving range and practice facilities.

SPORTS PARK—

Sports parks are parks that are dominated by athletic facilities. Most sports parks will have a small amount of support facilities such as a walking track, playground and picnic facilities, but the primary function of the park is to facilitate sports activities.

NATURAL RESOURCE AREA / **PRESERVE** -

According to the NRPA, natural resource areas are defined as "lands set aside for preservation of significant natural resources, remnant landscapes, open space, and visual aesthetics/buffering." Acquisition of natural resource areas and preserves serves to enhance the quality of the community by maintaining a portion of its natural amenities.

These lands consist of:

- Individual sites exhibiting natural resources
- Lands unsuitable for development but offering natural resource potential (e.g.: parcels with steep slopes and natural vegetation, drainage ways and ravines, surface water management areas and utility easements)
- Protected land, such as wetlands, lowlands and shorelines along waterways, lakes, and ponds

GREENWAYS —

Greenways have become one of the most popular family recreation activities across the country. The value of greenways in terms of recreation, education and resource protection is invaluable. Greenways serve as linkages between cities, parks, schools, commercial areas and neighborhoods. They provide a safe mode of transportation that preserves the

environment. Greenways often include paved

trails. Typically, trails can vary from 6 to 12 feet in width and can be paved or maintain a natural surface. When developing a greenway system, corridors should be identified where

pedestrians will access the area easily and connect elements within the community and incorporate all the characteristics of the natural resource areas. Greenway corridors should be no less than 50 feet in width except in neighborhoods, where 25 feet may be acceptable. In his article published in 1995, Julius Fabos, a former professor of Landscape Architecture at the University of Massachusetts, divides greenways into three categories: ecological, recreational and cultural. Greenways can be located in a variety of settings and can be utilized for active and passive recreation activities. They are typically located along natural environments such as rivers, ridge lines and coastal areas. These trails provide connections to nature, protect and maintain biodiversity, minimize development, and provide for wildlife migration across natural and manmade boundaries. Recreational greenways commonly link elements that have diverse and significant landscapes. Many greenways link rural areas to more urban locales and range from local trails to larger systems. Another type of greenway is the cultural trail, which connects areas of significant historic value and culture. Economic benefits from these types of trails may be significant if linkages can be directed toward areas of commerce to provide an infrastructure for commuting.

SCHOOL PARK

School park sites are an excellent way to combine resources and provide accessible recreation amenities to the community. Depending on the school type (i.e. elementary, middle or high school) the size of the park will be dictated by the available land adjacent to the school. Typically, middle and high schools are constructed with youth athletic fields to support team sports. These facilities provide the basis for developing a community park or, at a minimum, youth athletic fields for recreation programs. The selection of school sites is determined by the school district and the

county-wide or city-wide distribution of students. The school site selection criteria may or may not meet the needs for parkland distribution. When development of school parks is possible, guidelines for neighborhood /community parks should be followed to meet the needs of residents. When joint developments occur, features common to other parks in the city (e.g., signs, site furnishings) should be used to identify the property as a public facility.

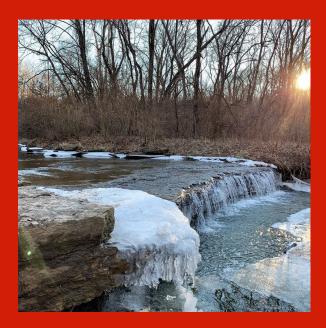
PRIVATE PARK/RECREATION FACILITY —

A private park and recreation facility, as described by the NRPA, meets one of the two following characteristics:

- Facilities within a residential area such as swimming pools, golf courses, tennis courts and party houses, developed for the exclusive use of residents and maintained through a neighborhood association
- For-profit enterprises such as health and fitness clubs, golf courses, water parks, amusement parks and sports facilities

These facility types can be entirely private or, in many cases, be a joint venture between a public entity and a private organization. Partnerships of this kind allow for the provision of facilities and programs at a reduced cost to the public sector. Private parks and recreation facilities are not a substitute for public recreation space.







Thus far, infrastructure accessibility and acces- ural Resource Area/Preserves than any othsibility within a set distance have been dis- er park. This is not surprising considering the cussed. Now, a third type of accessibility, ser- amount of natural resources present. vice level, will be analyzed. Service level refers to the number of amenities present within a When considering expansion and recommendpark to serve a certain number of people.

Each of the parks in the park system have the Lansing population. been given classifications depending on the type of amenities present, how large the park is and what the main use is. Each of these classifications come with standards for how many people the park serves, which can be referenced in the NRPA Park Classifications section.

The map below visually represents the service radius around each of the parks based on their classification. Mini Parks have the smallest service area with a 0.25 mi radius and the largest being Regional Parks with a 10 mi radius. Based on these classifications, Lansing has more Nat-

ed amenities, special consideration should be taken to diversifying the types of parks serving

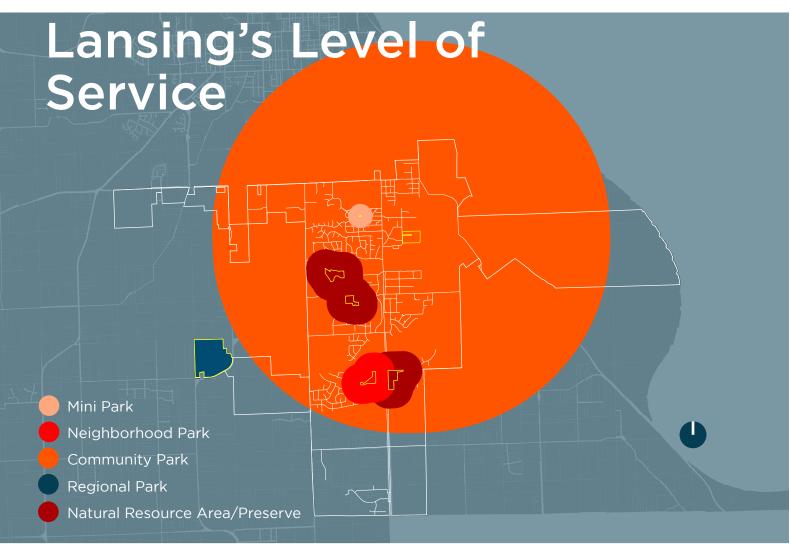




The previous maps aimed to provide contex tual analysis and observation of Lansing an its parks system as a whole, where the follow ing illustrations aim to provide in-depth obse vations and insights on each individual par property. The following site analysis drawing contain six layers of analysis: Infrastructure an Viewsheds, Circulation, Vegetative Cover, Hy drology, Soils, and Topographic Slope Analysi

Each of these layers provides necessary info mation to contextualize and design for public park spaces. All of these factors, combine with on-site analysis, allowed the design tear to comprehensively analyze each park spac These site analysis drawings provide an esser tial step to designing for the future; while un derstanding the present.

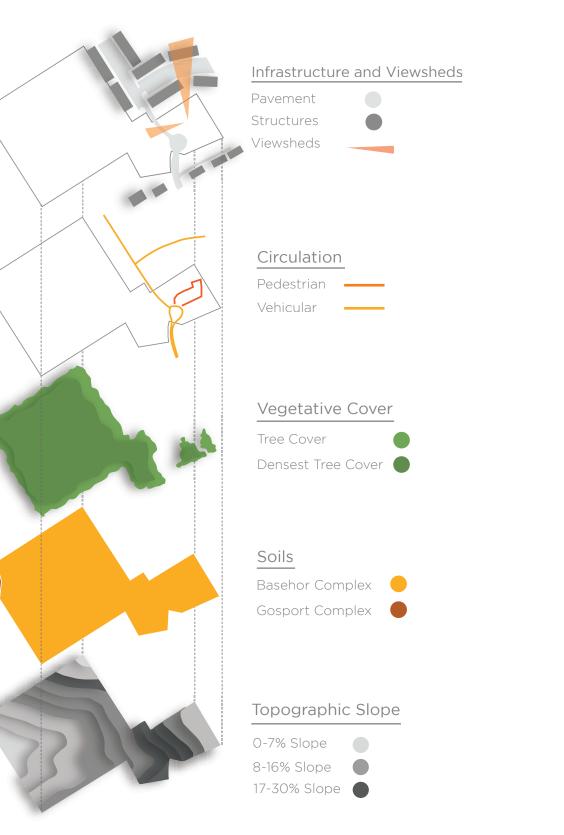
Each park in Lansing's park system has a sit analysis drawing, site pictures, the acread of the park, the class of the park and a list amenities currently in the park. The amer ties are color-coded and can be found in th legend to the right.

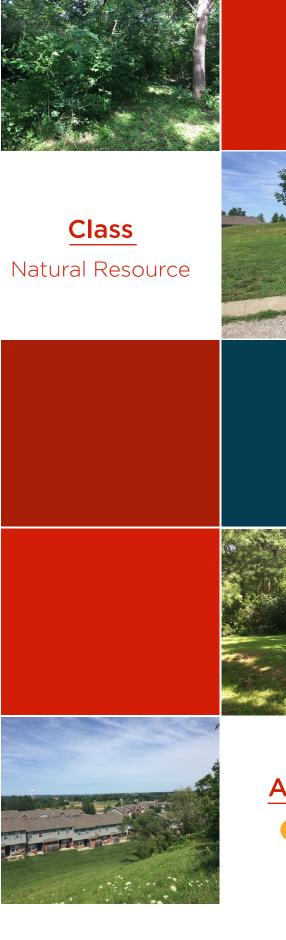


ex- nd	Park Amenity Key
w- er- rk	Restroom Facility
gs nd	Portable Restroom
y- is.	Playground
or- lic ed	Trails
m ce.	Shelters
n- n-	Water Feature
te ge	Baseball Fields
of ni-	Soccer Fields
ne	Parking

Bittersweet **Park**

This park is nestled next to both a single-family neighborhood to the South and a multi-family apartment complex to the North. If it wasn't for the undeveloped nature of the park, it would be classified as a neighborhood park. Bittersweet Park was ultimately master planned in 2003, but the design hasn't been implemented to date. This park features a hill on the Southeast side of the property that overlooks the city, as well as the apartment complex. This poses a unique opportunity to highlight the overlook, as well as screen the hilltop and visitors from the apartment complex below. Split by a cul-de-sac and gate into the apartment complex, the rest of the park continues to have dramatic topography, as well as being covered by dense trees and underbrush. The lack of built amenities, the natural features and challenging developmental environment of this park have it classified as a Natural Resource Area.







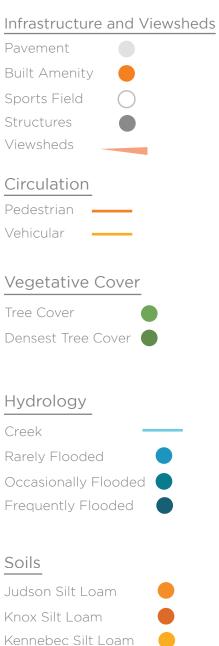
Lansing Parks and Recreation Master Plan

City Park

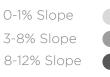
This park is the current home of Lansing's baseball, softball and tee-ball facilities. City Park is tucked away behind light industrial buildings to the West, which is the City's maintenance facility, and a trailer park to the South. This park is the only one in the park system that has a built restroom facility, which is located in the center of the park; however, staff has to keep it closed outside of events due to vandalism. Other features include two full sized baseball fields and two small fields, with a concrete walking path around the perimeter and through the center. All of these built elements need upgrades.

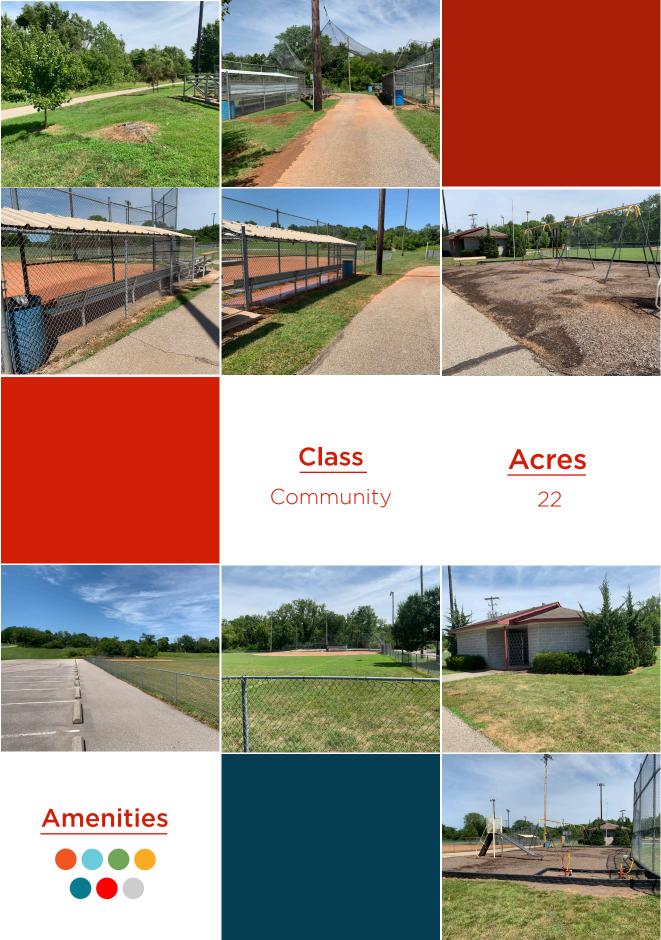
Situated to the West of the restroom facility is a playground that is also in need of upgrading. Currently, only half of the park is being utilized. The other half is covered in vegetation and Sevenmile Creek runs through the park. The area around the creek, and the majority of the Eastern portion of the park, is in the floodplain. The parking lot on the West side of the park has drainage issues, where water collects at the entrance and is at full parking capacity during games.



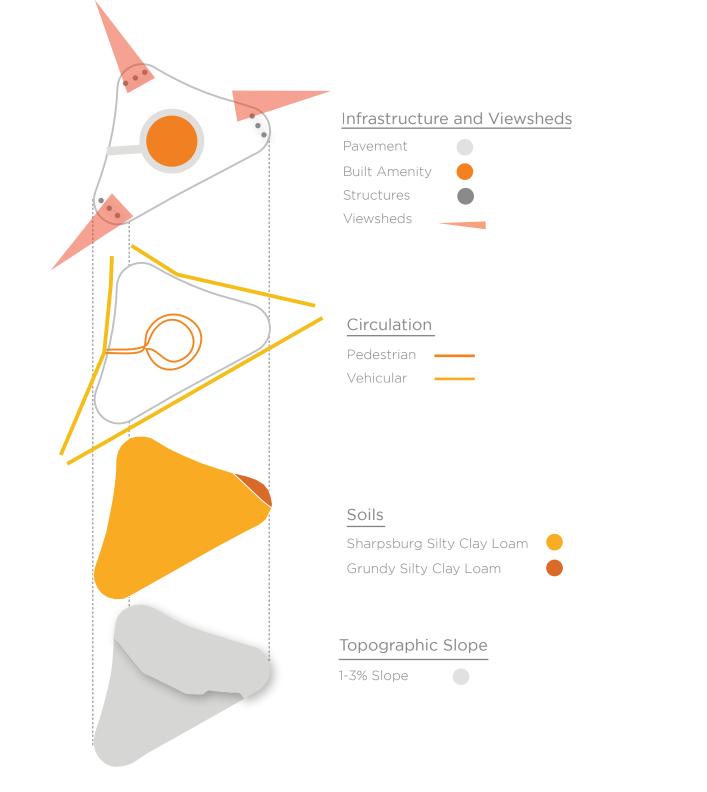


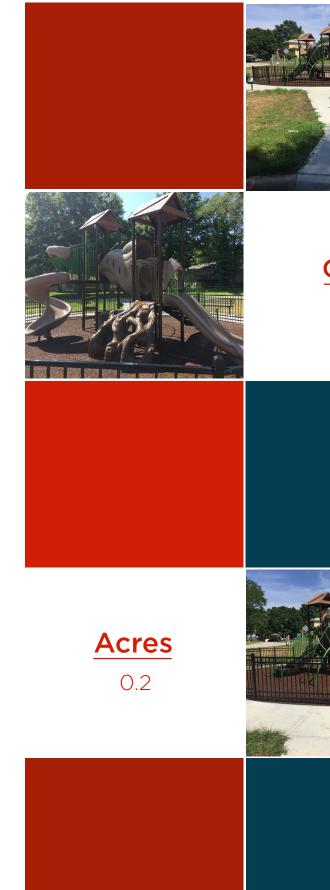
Topographic Slope











Highland **Playground**

Highland Playground is the smallest park in Lansing's park system with just 0.2 acres. Within the last year, the old playground equipment has been taken out and replaced with a single play structure shown to the right. A fence and benches were added around the perimeter, as well as wooden bollards at all three corners. This park space acts as the island in an intersection in a neighborhood, which means traffic is flowing around the playground on all sides. The surrounding neighborhood doesn't have sidewalks, therefore, safe connections to the surrounding residents is lacking around this park and should be improved.







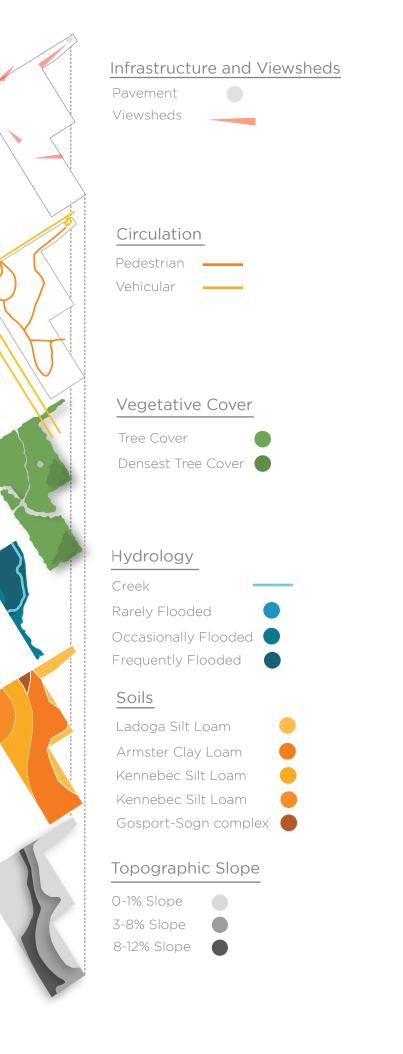


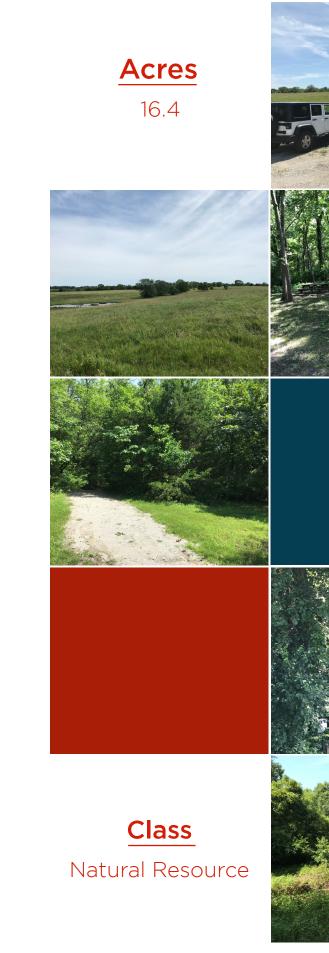


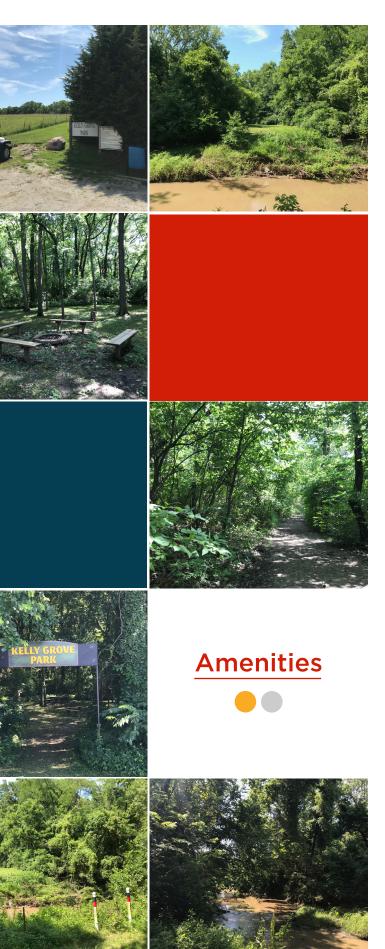


Kelly Grove **Park**

This park lies just off of Highway 7 and E Gilman Road. These major thoroughfares run along the West and North sides of Kelly Grove Park; farmland lies to the East. Parking is difficult with few spaces available at the Northeastern most edge of the property. The designated area isn't paved but has gravel and offers about four spaces. Included in this area is also a small sign about the park. Kelly Grove Park was donated to the City with requirements that it remain a nature park, therefore it has a classification of a Natural Resource Preserve. This classification prohibits the park from further development other than adding walking trails and nature-oriented activities. The existing trail through the park is not paved, and the lower portions in the floodplain are frequently flooded. This makes traversing the park very difficult and none of the facilities are currently ADA accessible. The riparian corridor through the park is starting to erode as well, which poses a problem long-term for being able to create an accessible trail network.



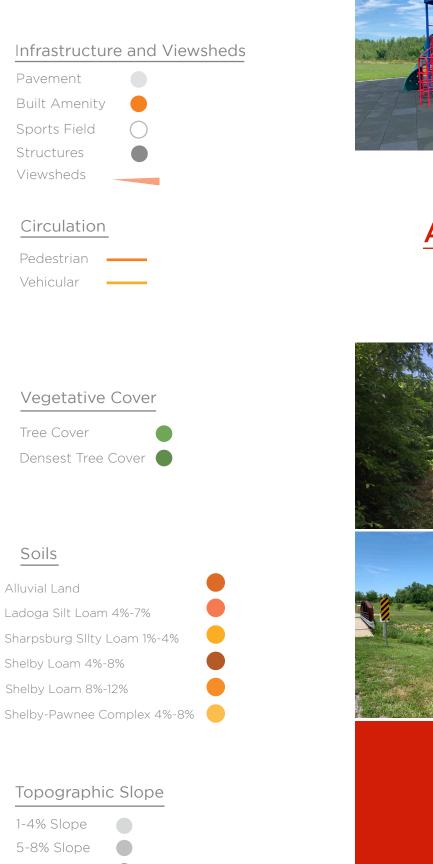




Kenneth W. Bernard Community Park

This park is the largest in Lansing's park system at 128 acres. This park was also previously master planned and has had some development in the last 15 years. That development brought the park a paved parking lot, a central gathering space with picnic tables, a shelter and playground, as well as soccer fields. This development was minor compared to the previous master plan design and offers great foundation to build out the rest of the park. All features in the park, besides the existing shelter, need to be upgraded due to age. The park does contain a sizeable trail network that runs throughout the park. None of these trails are paved, therefore are not ADA accessible, but they are mown trails that are maintained by City Staff. This particular park property has significant changes in topography, which will be a challenge developing the park through the master plan.







Acres 128















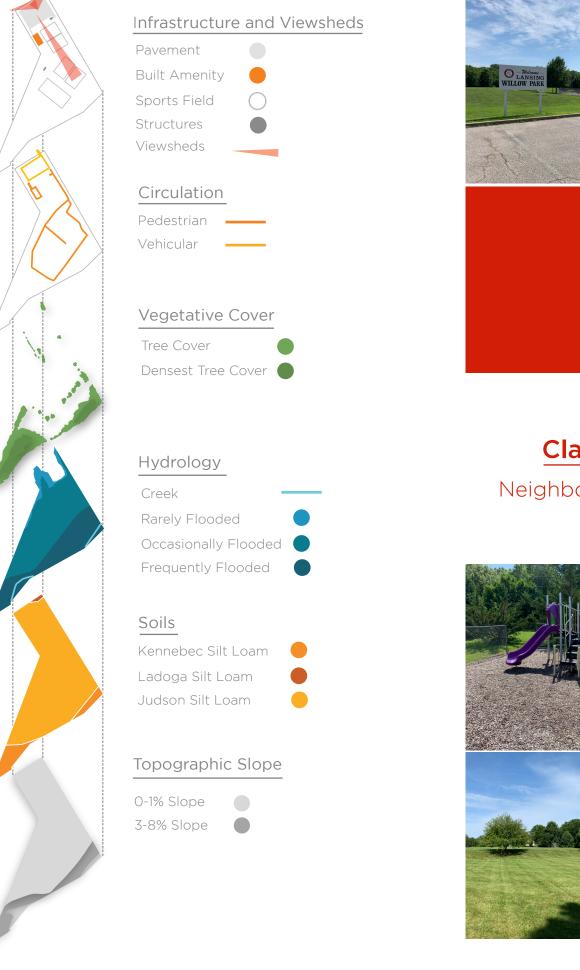






Willow **Park**

Willow Park exists in the heart of a single-family neighborhood and contains Lansing's game-ready soccer fields that are utilized by all age groups. Along with the soccer fields, this park has a small playground with a post and platform play structure, along with a swing set. The playground is fenced, separating the playground from the soccer fields, and provides benches for seating. However, the playground equipment is outdated and needs an upgrade. Willow Park also has a storage structure that doubles as a containment structure for a portable restroom. The Southern portion of the park, near Ninemile Creek, is relatively unused and remains as open space. It also offers great views and privacy from neighboring houses, making it ideal for development with an active use.







<u>Acres</u> 8.77









Community Profile

The community profile seeks to provide a current picture of Lansing's demographics and city-wide amenities to provide a base of understanding for future planning efforts. This section also compares Lansing with other local and national communities to identify benchmarks to aid future growth. As part of the existing conditions analysis, the previous section examined Lansing based on current land use and how adjacent land use affects each park individually and as a whole. This section conducts analysis based on infomation about the residents of Lansing and the amenities that serve them.

COMMUNITY PROFILE AND BENCHMARKING

All of the data used in this section is from the U.S. Census from 1990-2010 and the 2017 ACS was used for all of the 2017 data. All projections were created using linear regression and are estimates.

Currently, the City of Lansing has almost 12,000 people with 3,322 households, which indicates that Lansing has a lot of families. This is paired with a median age of 38.7, which is slightly older than that of Kansas with a median age of 36.2.

Lansing's median household income is \$84,183, which is also higher than that of Kansas. Lansing is the second largest city in Leavenworth County, after the City of Leavenworth.



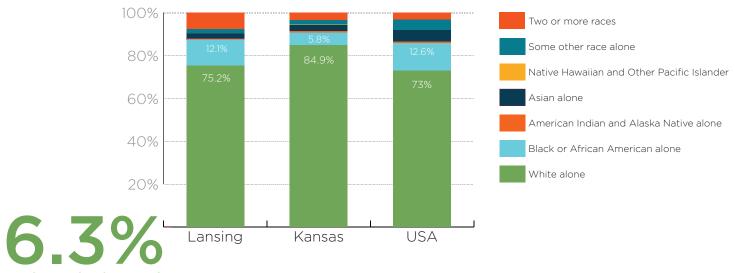


Population

2017 Racial Diversity Comparison

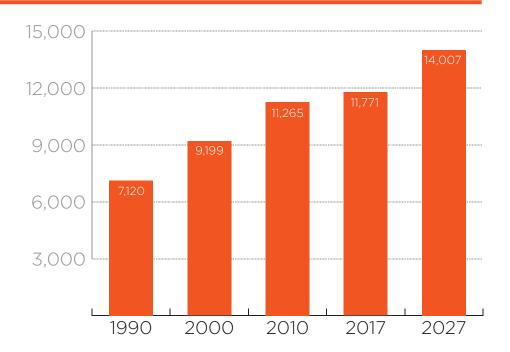
The population in Lansing has been steadily rising since the 1990s, with a few thousand people added every 10 years. Between 2010 to 2017, the steady growth appears to taper off. The population only grew about 506 people in 7 years, rather than the usual 2,500 in 10 years. Linear regression was used to predict the population numbers in Lansing 10 years from the last reported Census information, which is 2017; making the predictions for 2027. Linear regression how Lansing's population has changed and will takes the average growth from each year and applies it to the same time period, in this case, 10 years. This is purely an estimate based on previ-

ous growth. While this formula uses an average growth, it doesn't consider that the growth rate of Lansing is slowing, as well as all of the other factors that go into population growth. These factors include, housing stock availability, job centers and availability, schools, City amenities, and so on. This makes predicting future population growth challenging. Analyzing population trends allows the design team to understand change to more accurately plan and design for the future of Lansing.



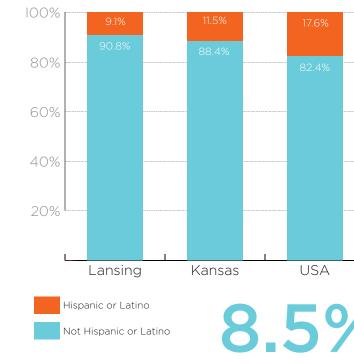
Higher Black or African American Population than Kansas

Population Trends 1990-2027



Lansing's Population Grew by From 2010-2017

2017 Hispanic or Latino Comparison



8.5% Lower Hispanic or Latino Population than the U.S.

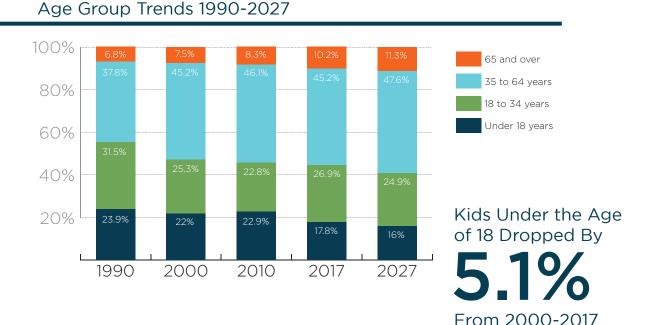
Race/Ethnicity

The most predominant race of Lansing is mostly White alone consisting of 75.2% of the population. The second most predominant race is Black or African American being 12.1% of the population. When compared to Kansas, Lansing is more racially diverse with fewer residents that are in the White alone category, more Black or African American residents and more Two or More Races. However, when compared to the U.S as a whole, Lansing's racial diversity is guite similar except for having more residents that are Two or More Races.

- Ethnicity is different than race; where race
- refers to biology, ethnicity refers to culture from a specific region. In this case, the U.S Census collects information on the Hispanic and Latino populations of cities. Lansing's Hispanic or Latino population is 9.1% of the total population, which when compared regionally and nationally, is lower than both. The most significant difference is national, with an 8.5% lower ethnic diversity than the U.S.

Age Groups

2017 Median Household Income Comparison

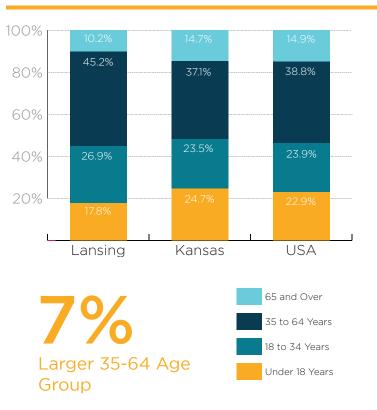


100% 80% 19.2% 60% 40% 20% 20.4% Lansing Kansas

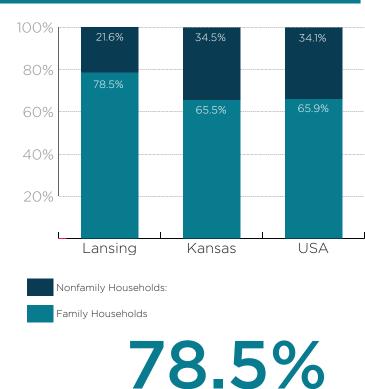
Lansing's median age is 38.7, but that doesn't shed very much light on which age groups in Lansing need to be planned and designed for. The graph above shows the individual age groups in Lansing and the changes over time from 1990 to the projected 2027. This shows which age groups have grown over the last almost 30 years and will grow over the next almost 10 years. The percentage of people under 18 has been decreasing over time, except for 2000-2010, where it increased by .9% and is projected to decrease more by 2027. The predominant age group in Lansing is 35-64, which is increasing, along with the 65 and over group. Lansing's older populations are increasing, and younger populations are decreasing, which affects the types of activities and amenities that are needed to serve residents.

The age group comparison in the chart to the right shows the regional and national proportions of the same age groups listed above. This indicates that Lansing has a significantly higher 35-64 age group than that of Kansas and the U.S., as well as having a higher 18 to 34 age group. Lansing also has a lower percentage of 65 and over residents when compared to these geographies. These age groups must be taken into more consideration when designing park spaces.

2017 Age Group Comparison

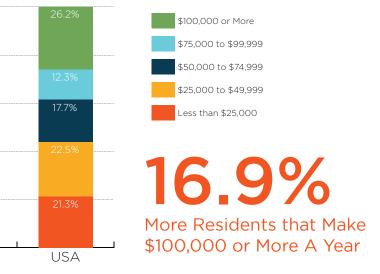


2017 Household Type Comparison



52 Lansing Parks and Recreation Master Plan

Households



Lansing does not match the regional and national average standard when it comes to medianhousehold income. Lansing has far fewer residents making less than \$25,000 and far more that are making \$100,000 and above. Because of this, Lansing has a smaller middle class making \$25,000-\$49,999. Every city needs a balance of incomes to create vibrant, inclusive spaces. Park expansions should be considered in lower-income areas to ensure that resources are being distributed equitably and to encourage income diversity within Lansing.

Lansing also has a higher amount of family households than that of Kansas and the U.S. However. based on the age distribution, kids tend to be older than 18. This correlates with the majority of adults being between the ages of 35-64. The percentage of family households is high, but with the proximity to Fort Leavenworth, military families operate as a non-family household with only one available parent. Park recommendations should take into account the needs of both family and non-family households to make Lansing parks usable and enjoyable by all.

53

Lansing Summary:











Population Race Ethnicity Households

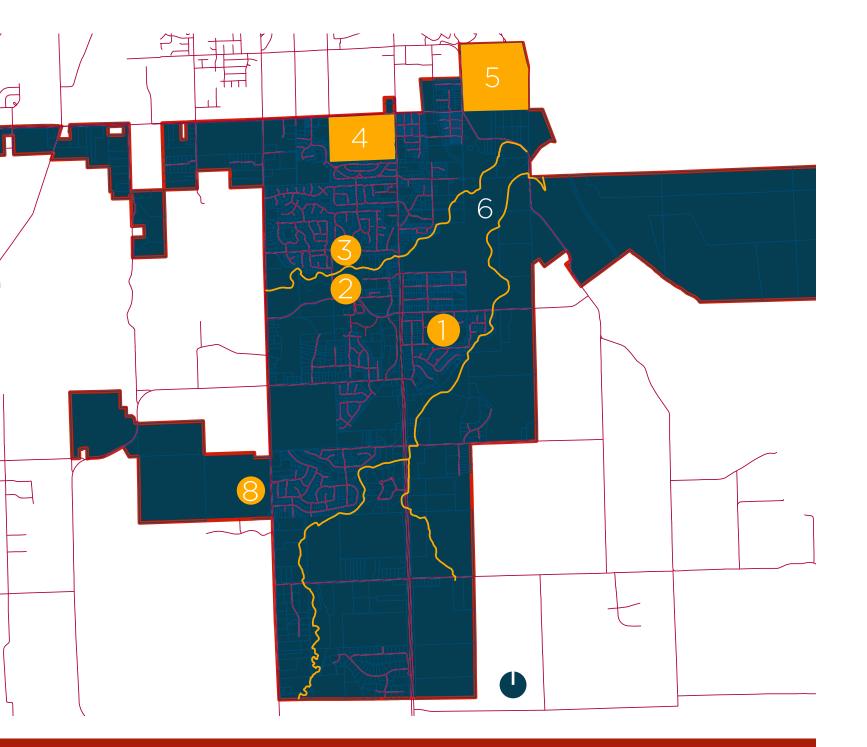
People In Recent Growth (2010 - 2017)

6.3% Higher Black or African American Population than Kansas





Community **Amenities**



- 1. Lansing Middle School
- 2. Lansing Elementary School
- 3. Lansing Intermediate School
- 4. Leavenworth Country Club and Golf Course
- 5. Leavenworth National Cemetery and Mt Muncie Cemetery
- 6. Sevenmile Creek
- 7. Ninemile Creek
- 8. Lansing High School

Schools

This master plan has discussed city parks as amenities, as well as natural resources, but there are many different types of amenities within a community; a very important one is schools. These are not only one of the most important factors when moving to a city, but also green spaces in nature. Lansing's schools have undergone improvements in recent years and have updated their green space. Even though these are on school property, the playgrounds and trails are amenities to the entire community, which is often overlooked. These spaces should be cultivated, not only for the children attending but for the surrounding community.

Greenspace

As schools can function as community green space, other types of community green space should be considered amenities. Lansing also has the Leavenworth Country Club and Golf Course, Mt Muncie Cemetery and the Leavenworth National Cemetery just outside the City limits. These offer recreation, social and natural opportunities to the City of Lansing, and should be taken into consideration when evaluating amenities for residents within Lansing.

Creeks

Although the value of natural resources was discussed earlier, it's important to note the specific importance of creeks within a community. Water plays a big role in Lansing, with both the Ninemile and Sevenmile Creek's running through the city, it's also adjacent to the Missouri River. This has created a substantial floodplain, and although this might seem like a bad thing, it can be an asset and amenity. Rivers, creeks, and floodplains create natural wetland environments, which act as small ecosystems for native plants and animals. Many communities are restoring wetlands and receive grants to do so. The same goes for creeks. Many communities are restoring creekbanks and improving the water quality that contributes to the surrounding environment. When these areas are preserved and improved, trails can be added around them and can serve as educational opportunities to learn about local habitat and sustainability. As another form of green space, creeks are just as important as park space.

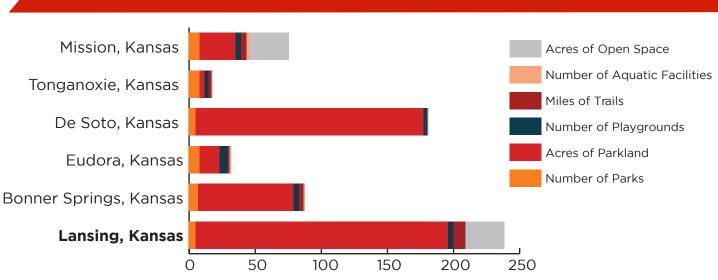


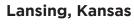
Comparable **Communities**

The last two sections began benchmarking revealed any gaps in the number of ameni-Lansing regionally and nationally based on ties Lansing might have, or if Lansing has a demographics and covered citywide, gen- surplus in certain categories. This allows very eral amenities. This section digs deeper into Lansing's parks and recreation amenities in a made to address any shortcomings in amenimore detailed capacity by comparing them to other, similar sized communities.

Five local communities within the state of The following data was collected from the Kansas that are comparable in population Parks and Recreation Directors from each of size, were chosen by City Staff to benchmark the cities listed. What is shown is believed to Lansing's parks and recreation amenities be accurate, at the time of this master plan's against similar communities. This process approval.

detailed, targeted recommendations to be ties that Lansing might have, or not to expand certain amenities due to over-saturation.







Mission, Kansas Tonganoxie, Kansas De Soto, Kansas Eudora, Kansas Bonner Springs, Kansas Lansing, Kansas 03 01

This section requested that cities provide all of All of the other communities have at least one the aquatics information that pertains to only pool, with Mission having the most aquatics fawhat the city owns and maintains. With this in cilities. Lansing has a nice pool facility, but early mind, Lansing doesn't have any information for public use times make it difficult for residents to aquatics because the only pool available within take advantage of this amenity. This will be disthe community is owned by the school district cussed in a later section. and resides in the high school.

Population Mission, Kansas lumber of Households Tonganoxie, Kansas louseholds with Children De Soto, Kansas Eudora, Kansas Bonner Springs, Kansas Lansing, Kansas 20000 5000 10000 15000 0 Number of Households/Population

The graph above shows a collection of demographic information from all of the cities. Lansing and Mission have the highest population, with Mission having more households and a lower Mission having the highest number of house- population than Lansing, this indicates that more holds. Lansing has a higher than average number non-family households exist in Mission than any of family households, which is reflected here by a of the other cities that were examined.

larger number of households with children than that of Mission and all of the other cities. With

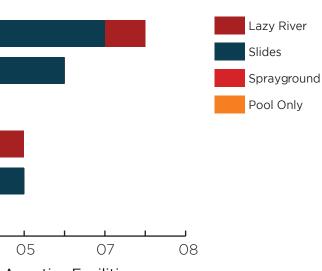
City Information

Parks Information

Number of Park Amenities

The graph shown above shows general park system numbers for each community that exist to date. Lansing has the most parkland and miles of trails than any of the other compared cities. However, Lansing has the second fewest number of

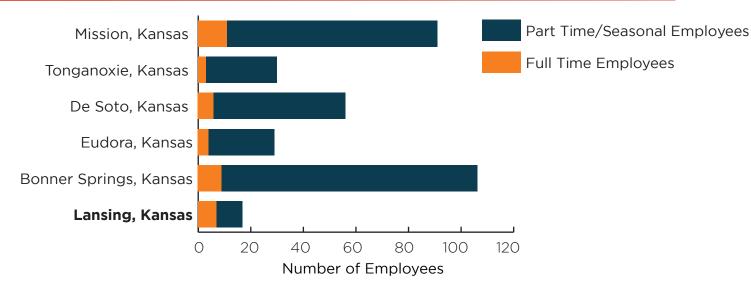
parks, with only De Soto having less. With having the most acreage and trails, Lansing holds the most maintenance responsibilities, which can be difficult for a municipality to maintain long term.



Aquatics Information

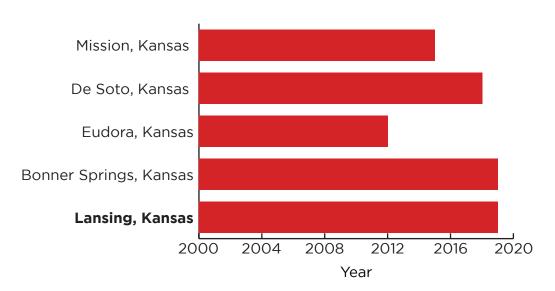
Number of Aquatics Facilities

Employee Information



The graph above shows the number of part time/ the least number of employees. Whereas, Bonner seasonal and full-time employees that each com- Springs has the most employees with far less park munity has in their Parks and Recreation Depart- space. Having so few employees available in Lanment. These employees are responsible for main- sing's Parks and Recreation Department poses a tenance and coordination of park spaces within real challenge for both the employee's well-being these communities. If this employee information and the park maintenance itself. Recommendais compared with the park information graph, tions for this challenge will be addressed in a later Lansing is operating the most park space with section.

Latest Parks Master Plan



This section aims to illustrate when each commu- Bonner Springs updated their parks master plan nity's parks and recreation master plan was last within this past year and De Soto within the past updated. This puts into perspective the invest- few years, while Eudora has not updated theirs ment going into each community and if Lansing since 2012. is staying competitive within this chosen group of cities.

In conclusion, after taking into consideration city parks, aquatics, and parks master plan information, Lansing is staying very competitive with all of the chosen communities. Lansing has the largest population, with the most park space and the least number of Parks and Recreation employees, but still has been able to fully maintain all City owned property without neglect. However, working within these numbers has created challenges that will need to be overcome to improve conditions for workers and maintenance overall.

The only category that Lansing doesn't compete in, is the aquatics section. With aquatics being a major amenity, it poses a real challenge for Lansing to compete in this area. Without aquatics in Lansing, residents will travel to other communities for this resource, rather than staying local. To this point, Lansing is missing a recreational market, currently, by not having a more accessible interactive water resource.

In all of these categories, Lansing has excelled with what has been available to them, but there are several areas that could be improved. The recommendations for these issues will be addressed in the Park and Facility Recommendations section and the Maintenance section.

Summary

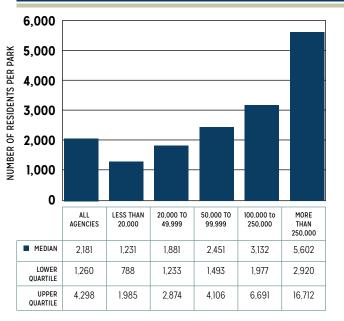
NRPA Benchmarking

Earlier in section 2. the NRPA Park Classifications were used to categorize each of the parks in Lansing. In this section, the 2019 NRPA Agency Performance Review will be used as a national benchmarking tool for Lansing's park system as a whole. The 2019 NRPA Agency Performance Review is a collection of data from 1,075 different park and recreation agencies all across the U.S. from 2016-2018. This performance review creates national medians and benchmarks for communities of all sizes to base their park and recreation numbers against. However, these numbers are not all encompassing, and each community is run differently with different factors to consider; therefore, changes shouldn't be made just based on this information, but merely used as a tool to make broad, national comparisons to other communities

There are three areas of comparison that provide a general set of benchmarks for Lansing's park system that are beneficial to this master plan. Figure 1, on the right, is showing the median number of residents per park across all communities, as well as in the lower and upper guartile. Lansing would fall into the "Less than 20,000" category where the median is 1,231. Lansing has 6 parks in its system with 11,771 residents, according to the 2017 ACS, which means Lansing has 1.961 residents per park. This number is closer to that of a 20,000-40,000 resident community than that of its actual category. This suggests that the number of parks could be greater to allow residents more options within Lansing.

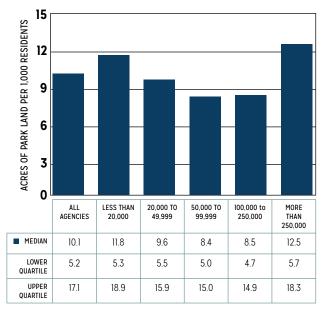
Figure 2 outlines the median number of acres of park land available per 1,000 people. Lansing's 6 parks combined is a total of 190.56 acres, and based on 11,771 residents, Lansing has 17.32 acres per 1,000 residents. That number would fall into the upper quartile median across all agencies. This suggests that Lansing has an adequate number of acres per 1,000 residents. Compared to the assessment above, Lansing could benefit from spreading out that acreage across the city. rather than a few large parks.

FIGURE 1: RESIDENTS PER PARK (BY JURISDICTION POPULATION)



Source: 2019 NRPA Agency Performance Review

FIGURE 2: ACRES OF PARK LAND PER 1,000 RESIDENTS **(BY JURISDICTION POPULATION)**



Source: 2019 NRPA Agency Performance Review

Figure 3 breaks down the most frequently used rink to provide a variety of activities. parks and recreation facilities across all of the com- A list has been made of all of the facilities that Lansing currently doesn't have, however, this should munities that were surveyed in this review, and shows what percentage of communities actually just be used as a reference and not a set of recomhad them. Lansing currently has about half of these mendations. facilities currently in their park system. All of these facilities are specifically outdoor and only owned Facilities not in Lansing: by Parks and Recreation. Some of the facilities that Basketball courts Lansing doesn't currently have are very frequently Tennis courts used in other communities. These facilities include: Dog park basketball courts, tennis courts and dog parks. Outdoor Swimming Pool There is typically a ratio of people per facility, some • Community Gardens facilities are repeated more frequently throughout • Multi-Purpose Courts the community, others stand alone and are destina-Skate Park Multi-Purpose Synthetic Field tion activities, which is shown on the right side of • the graph below. Lansing has approximately 900 Ice Rink people per square mile. Not all of these amenities Multi-Purpose Rectangular Fields will work in every community. For example, ice rinks are only present in 16.7% of cities, which might indicate that Lansing doesn't necessarily require an ice

[Madian Num	hay of Deside	uto non Fosil	:
			Median Number of Residents per Facility			
			Residents per Square Mile			le
	% of	All	Less than	500 to	1,501 to	More than
	Agencies	Agencies	500	1,500	2,500	2,500
Playgrounds	94.4%	3,706	7,334	3,397	3,163	3,586
Basketball courts	86.1	7,375	10,048	7,260	5,971	7,400
Tennis courts (outdoor only)	79.7	4,803	5,462	5,217	4,296	4,858
Diamond fields: baseball - youth	77.9	6,608	6,890	5,574	6,597	7,369
Diamond fields: softball fields - adult	66.5	12,619	16,298	9,494	12,527	15,000
Rectangular fields: multi-purpose	66.1	7,878	7,812	7,398	7,469	9,000
Diamond fields: softball fields - youth	60.9	11,160	12,000	8,216	11,917	13,773
Dog park	59.3	44,330	45,751	37,500	47,000	55,675
Diamond fields: baseball - adult	54.7	20,412	16,184	16,360	20,033	25,834
Swimming pools (outdoor only)	52.3	36,266	43,500	26,474	34,035	41,495
Totlots	48.1	12,226	20,563	10,789	14,000	10,542
Rectangular fields: soccer field - youth	48.1	6,883	7,656	5,262	7,000	8,784
Community gardens	46.3	29,750	20,502	27,167	34,170	29,548
Multiuse courts - basketball, volleyball	42.0	17,667	27,482	17,536	17,167	16,250
Rectangular fields: soccer field - adult	40.9	13,031	12,767	9,930	13,173	15,000
Rectangular fields: football field	38.0	26,783	19,235	20,398	25,320	35,572
Skate park	26.2	49,250	20,000	41,148	44,000	62,325
Multipurpose synthetic field	19.1	43,149	27,375	33,441	41,938	49,862
Ice rink (outdoor only)	16.7	18,500	12,162	10,574	16,989	29,392
Rectangular fields: lacrosse field	11.7	25,566	15,250	17,750	23,500	31,965
Rectangular fields: cricket field	9.2	126,945	200,250	301,215	126,945	78,714
Overlay field	7.5	15,819	8,570	8,600	24,770	19,881
Rectangular fields: field hockey field	4.0	33,112	20,893	40,797	13,334	44,310

Source: 2019 NRPA Agency Performance Review

FIGURE 3: OUTDOOR PARK AND RECREATION FACILITIES-POPULATION PER FACILITY (BY PREVALENCE AND POPULATION PER FACILITY)

COMMUNITY NEEDS ASSESSMENT

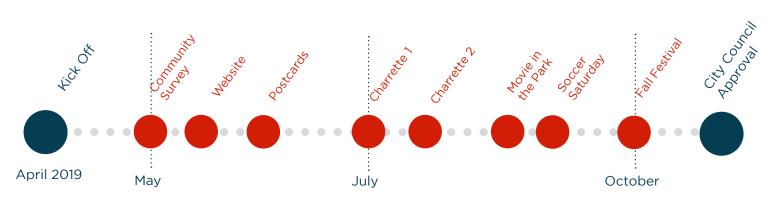
Public Engagement **Strategy**

With any master plan, it's important to engage the a logo that was added to all of the engagement community early in the process and often throughmaterials, creating unity in the project. The website out. Parks and Recreation Master Plans are meant was built to be a landing page for the survey, and to offer planning and design recommendations for included the project background, a calendar of all future growth to better meet the needs of the comof the events that were going to be held, and upmunity, and to effectively accomplish that, a public dates on the project along the way. A notification engagement strategy was developed. This stratelist was also created from this to be able to send gy was created with City Staff from the very first out event reminders and major milestone dates. kick-off meeting. The public engagement strategy The design team coordinated with City Staff to had several different types of engagement platcreate social media materials to promote the projforms built-in that accomplished different goals. ect, as well as provide the survey link on another It was important to incorporate both online and platform. in-person outreach to make sure that all groups of **In-Person and Physical Media** citizens were able to give feedback on the project and the recommendations were tailored to the The design team coordinated with City Staff to specific needs of the community. create a postcard that was mailed to every resident

of Lansing, which provided the website address Online and the survey link, and notified them about the It was established very early-on to incorporate an project. The website and survey were combined online survey. This allows everyone with access with several different types of in-person charrettes to and the knowledge of a computer to be able and reaction sessions. Early in the process, a key to give feedback. The questions were developed stakeholder group was formed with recommento gather specific information about the types of dations from City Staff to be the charrette group, amenities that the community felt were currently or the group that was part of the review process lacking in Lansing and what amenities they would for the actual designs for each of the parks. Reaction sessions were scheduled during events at like to see added. However, an online survey by itself doesn't get everyone very involved in a project. three different parks to bring the reviewed park so a broader strategy was developed to create a designs, to the public, for input. This was a twobranding package as well as a website to bolster step process that allowed City Staff to review and the project's online presence. Activate Lansing give input on the City's goals for the parks, and 2030 was created to give the project a name and to present approved designs to the public for any suggestions they might have. A final piece to the create excitement around the process, as well as



Timeline



public engagement strategy was to provide a detailed outline and explanation of this process, as as transparent as possible.

The timeline above shows when all of the major public engagement milestones happened throughout the process. By providing documentation in this master plan, it creates transparency between the design team and the public to ensure that an objective public engagement strategy was used, way through the process. The public engagement strategy was created with City Staff very early on, which set the major engagement objectives for the project. The survey, website and postcards were all

drafted and sent to City Staff to review and launch once approved. Once the survey was closed and well as the outcomes in the final master plan to be the existing conditions analysis was performed; two, two-day charrettes were completed with the stakeholder group. These charrettes occurred in July and August 2019. Three engagement events were planned after the charrettes, toward the end of the project, to bring the park designs to the public for review and suggestions. These three events were on different weekends and held in three different parks in Lansing. The goal was to engage the as well as keeping the community engaged all the most people as possible, with the last event being Lansing's Fall Festival. This allowed the public to be involved all the way through the process of the master plan. The following pages will provide more detail about each of these engagement activities.



Source: City of Lansing

Community Survey

The survey was drafted to collect

information about what was cur-

rently working and what could be

improved, or added, in Lansing.

The goal was to gather informa-

tion on specific amenities that the

community would like to see in

Lansing, as well as get feedback

on amenity suggestions proposed

by the design team. Each question

was crafted to be objective in intent

and all entries were anonymous so

no personal information was col-

lected in the survey. Surveys were

not limited by household but were

collected per individual. Based on

conversation with City Staff, there

were several controversial topics

when it came to City-provided

amenities, which the design team

wished to address, and not ignore, but in the most appropriate way. These topics were mostly based around aquatics and funding of these amenities in Lansing. Both of these were brought up in the survey but phrased as possible solutions. Questions were asked about including splash pads, or features, rather than a pool and possibly adding destination play areas that would help generate revenue to offset costs. The survey was designed to take no longer than 10

Survey Design

minutes to complete and was open for about a month, allowing the most people possible to give their input on the project. Almost every question included an "Other" option to capture comments, or other suggestions that might not have been included. Using the SurveyMonkey platform, information from the survey was exported (both comments and tabulated answers) and used to create a wish list for amenities. The survey was designed to create this list, which ensured that when the design charrettes began, the community's chosen amenities were incorporated into the design for each park. The survey results in their entirety are located in the appendix. as well as discussed in the following pages.



Survey Results

470 Survey Responses

Question 1: Which of these elements do you think that Lansing needs more of in their parks?

from the survey results, not the entire survey. The whole survey is located in the appendix. These few graphs have been pulled out to be used for discussion purposes of the results. The question results that were chosen for this section were the key questions that helped inform the recommended amenities list. The survey had a total of 470 respondents, which makes the survey statistically valid. Question 1 outlines the The final question shown was a targeted top-voted options for amenities, which are:

- More Restrooms
- Link and Expand Trails
- Bike Trails and Courses
- Picnic Shelters/Shade Structures
- Splash Parks
- Aquatics Features

out of any other category and were included at the top of the amenities list, shown on shown on page 70. This list was brought the following pages.

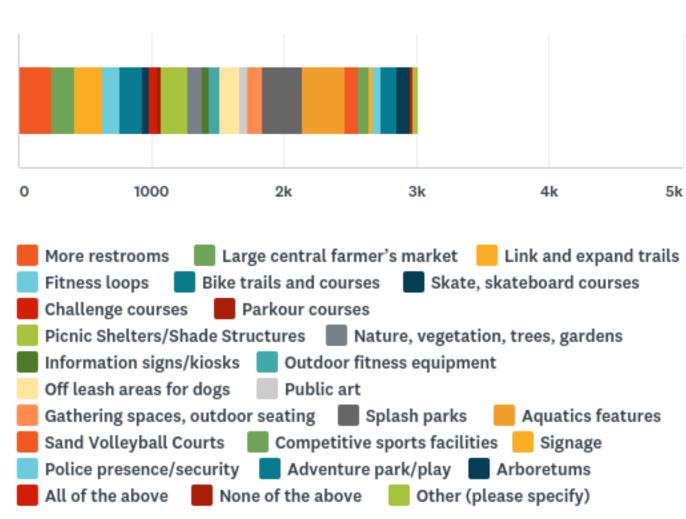
what Lansing's priorities should be when of improvements. This list is what was used it comes to trails, open space and funding. in the design charrette process to design This allowed the design team to analyze the parks and make overall design recomwhat the community's overall motivations mendations.

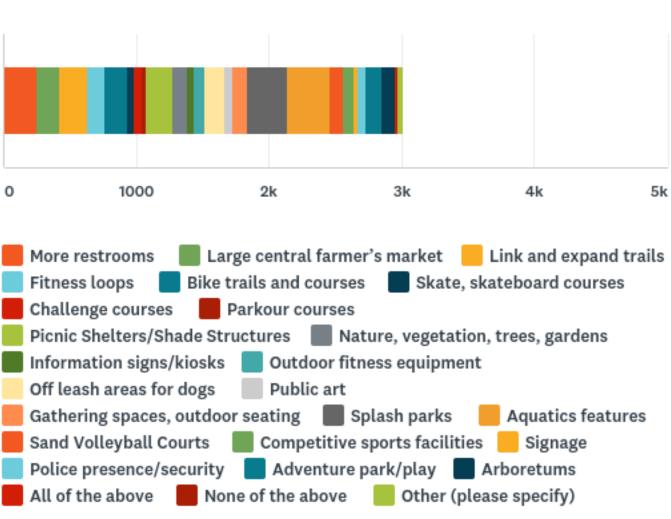
The following pages have selected graphs or wants might be for these general categories. These included:

- Fill in the trail gaps between residents and parks and recreation centers
- Create large competitive sports parks to help keep children playing locally
- Fund a commercial style pool/splash park

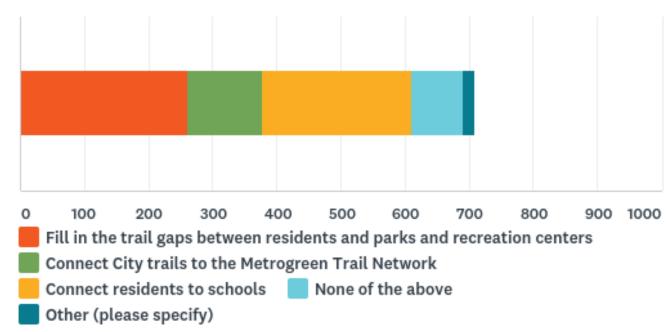
question about aquatics. These types of questions were spurred based on the heavy push from residents to build an aquatics feature. This question asked how many times the resident would actually use the facility if it was funded, and the majority said they would use it several times per week, the most frequent choice provided.

These amenities received the most votes These questions and many more helped create the preliminary list of improvements to City Staff to then gather their input on what would be realistic for the City to ac-Questions 2-4 asked specifically about complish, which created the prioritized list

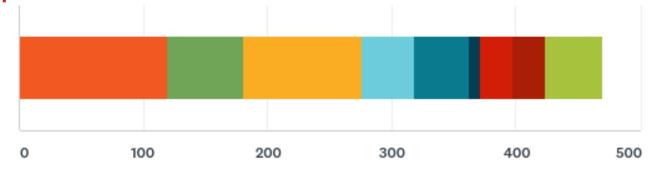




Question 2: Which recreational trail gaps should be a priority to complete?



Question 3: What should be Lansing's open space priorities?

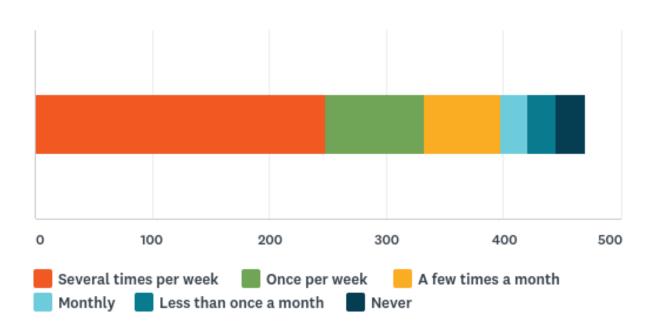


Create large competitive sports parks to help keep our children playing locally an

- Expand park land to provide closer parks to all residents
- Connect open space through expanded trails
- Conserve park land that has quality natural resources
- Provide better maintenance and care for park areas
- Provide open space for community agricultural gardens
- Create an arboretum None of the above
- Other (please specify)

Question 4: Please indicate what specific facilities Lansing needs to consider building and/or funding.





Develop an adventure amusement area providing challenge elements for all ages

📕 Develop a splash park 🛛 📕 Create an arboretum 🗧 Other (please specify)

Question 5: If the City of Lansing builds a new outdoor aquatic facility with the features you prefer, which ONE of the following statements represents how often you or other members of your household would visit the facility?

Preliminary List of Improvements

- Outdoor pools and aquatic areas 1.
- 2. Splash pad
- 3. Walking and biking trails
- 4. Restrooms
- 5. Playground equipment and play areas
- Nature trails 6.
- 7. Park shelters and picnic areas
- 8. Baseball and softball fields
- 9. Fishing pond/lake
- 10. Outdoor running/walking track (paved)
- 11. Soccer fields
- 12. Longer walking/biking trails
- 13. Outdoor amphitheater
- 14. Disc golf
- Indoor pool 15.
- 16. Pedestrian lighting
- Parking for sports events 17.
- 18. Farmer's market
- 19. Shade structures

Prioritized List of Improvements

- Aquatics/Splash feature
- unpaved
- 5. Longer walking/biking trails
- areas
- 7. Shade structures
- 8. More parking for sports events
- 9. Upgrading existing fishing pond
- 10. Disc golf
- Outdoor amphitheater
- 12. Pedestrian lighting
- 13. Indoor/outdoor pool
- 14. Farmer's Market

2. Upgraded sports fields, soccer/baseball 3. Variety of walking and biking trails, paved/

4. Combined restroom and park shelters 6. Updated playground equipment and play



The Charrette **Process**

4 Days Of Charrettes with Stakeholders A design charrette is done after all of the existing conditions analysis and needs assessments are completed after the survey is closed, the demographics research is conducted, the site analysis drawings are created, and the prioritized list of improvements is made. All of these materials are used and taken into consideration when conducting a design charrette. A charrette is an intense period of design and planning between a group of designers and stakeholders to address a design problem. In this case, the design team and the chosen stakeholder group (made up of various board members, council members and City Staff) met for two days to go from a multitude of concepts down to one proposed concept for each of the parks.

The first charrette focused on Bernard Park and the second charrette focused on the four other parks. The days were scheduled to be in phases. The first phase was the presentation of facts about the park(s), where relevant demographics, site conditions and the prioritized list of improvements were shared with the group. The second phase was getting feedback from the stakeholders about the needs of the particular park. Phase three, bubble diagrams were created and shared with the group as preliminary concepts. This phase is where the design team took all of the information provided and began to assign uses, or programs to different parts of the park, showing how the space might be used. These were taken and refined in the final phase of the charrette with the outcome of having one proposed concept for each park.

Both days of the charrettes were held similarly to open houses, where the members of the stakeholder group could come and go as the design team worked on the concept(s) with periodical review sessions. This allowed the stakeholders to be a part of the design process all the way through to the final proposed concept for each park.



Charrette Two All Other Parks

Charrette One

Both charrette days were from 8am-5pm and the The second charrette addressed four of the othfirst one focused on Bernard Park, due to how er parks to be designed in this master plan; Bitlarge it is. The feedback gathered from the staketersweet Park, City Park, Kelly Grove Park, and holder group about Bernard Park was to bring all Willow Park. This charrette process was conof the other sports facilities, such as the soccer ducted the same way as the first, but each park fields from Willow Park, and the baseball fields only had one bubble diagram concept to refine from City Park, and relocate them in Bernard from, due to time constraints. Several parks were Park; creating a sports park/complex. This allows chosen to have aquatics features and all of them the other parks to be used for other activities, had walking/biking trails added, as well as resuch as implementing some of the other priorstrooms, shelters and updated parking. The final itized improvements on the pre-established list. designs for the parks can be found in Section The Bernard Park charrette went through three 6 Park and Facilities Recommendations. At the bubble diagrams, or concepts, with different end of the charrette process, all of the amenities uses, placements, road/pedestrian circulation, on the prioritized list of improvements were adetc., where the best components of each were dressed and are included in this master plan. chosen and refined into the final proposed concept. Each was discussed until a consensus was formed on the final concept.

Charrette One Kenneth W. Bernard Park



Charrette Two





Reaction **Sessions**

Meeting with the Community

The final proposed concepts that were reviewed and agreed upon at the end of the charrettes were then presented to the community at three engagement events, or "reaction sessions". These three events were chosen in coordination with City Staff on what events might have the greatest attendance of people to gather feedback from. These events included setting up a booth at: Movie in the Park at Bernard Park, Soccer Saturday at Willow Park, and Fall Festival at the Angel Falls Trail. These events were chosen to gather a broad spectrum of the community, including people of different ages, backgrounds, income levels, etc.

Session one had a great turn out with kids of many age ranges with parents that were very interested in the drawings for each of the parks. The recommendation to add a dog park into one of the parks was made by one of the parents, but the majority of comments were very positive,

and the drawings included everything they could think of.

150

Conversations

Session two, which took place on a Soccer Saturday in Willow Park, was also very successful. The design team received a lot of feedback from parents watching on the sidelines and were able to have longer conversations with families that use more of the sports facilities. The majority of the feedback was that the plan for Bernard Park would satisfy the sports needs of the community and add more capacity.

Session three, held at Angel Falls Trail, engaged a different group of people, most of whom didn't live in Lansing. This spurred interesting conversations about the park plans bringing in people from all over to use them, which was a resounding yes. Many of the surrounding communities don't have the diversity of activities being proposed and these activities would be very popular in the immediate region.

Session Two Soccer Saturday



Session One Movie in the Park



Session Three Fall Festival

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PARK FACILITIES AND PROGRAMS

Introduction

All of the sections previous to this one: history, demographics, existing conditions, park analysis and a review of the public engagement, helped shape this master plan and its recommendations. The rest of the document, starting with this section, contain recommendations for the City of Lansing and its park system. The objective of the recommendations are to help grow and shape the future of Lansing's Parks and Recreation amenities. These recommendations are the product of all of the information shown in the previous sections of this master plan. The recommendations that are made include proposed park designs to improve the parks in Lansing (these can be found in Section 6), as well as a list of recommended programs that should be included in Lansing's list of programs offered. The park designs offer recommendations for the built environment, as well as the landscapes that accompany them. It should be noted that a park, or a facility, doesn't function at it's fullest potential unless it's programmed with the design of the park in mind. Programming is important to park spaces because it creates activities within a park that wouldn't otherwise be available to the public on a regular basis.

This section contains a list of existing programs provided by City Staff that range from events to sports. City Staff also provided detailed information for each program, which included cost to participate, age range, location, time of year, etc. The existing program list is accompanied by both program and facility recommendations that were created by the design firm. These recommendations were made based on comments collected from the survey, City Staff recommendations, and conversations with the community. These program and facility recommendations are meant to be implemented alongside the park improvements, shown in the next section.



Existing Programs and Facilities

Recommended Programs and Facilities

FISHING DERBY- Bernard park

The Lansing Fishing Derby is held the second Saturday of May from 9 to 11 a.m. at Kenneth W. Bernard Community Park. Prizes are awarded for winners in various categories. Participation fees can be paid the day of the event or at pre-registration for a discounted rate.

SPOOKY CENTER- Activity Center

refreshments; all free of charge. Includes two sessions, 4-6 p.m. for youth up to 3rd grade, and 7-9 p.m.

FOOTBALL- City Park/Bernard Park

There are three age divisions offered in this program; flag football ages 6-7, tackle football - two divisions ages 8-9 and 10-11. Games start in September and run through October. A copy of the child's birth certificate is required at the time of registration. Age guidelines set forth by the NEKAA Football League.

CHEERLEADING- City Park/Bernard Park

Children participating in this program will cheer for the Lansing youth football program offered by Parks and Recreation. Youth ages 5 to 12 may participate. Practices begin in August. Ages of eligibility are as of August 31 of the current year.

BASKETBALL- Activity Center and District Schools

SOCCER- Willow Park, School District fields and practice at Bernard Park

Soccer (Fall/Spring) – Spring and fall seasons are offered for soccer. Practices for spring soccer begin mid-March. Games are played typically on Saturdays from late March through May. Fall soccer begins practice in mid-August with games typically on Saturdays running September through October. For ages of eligibility please contact our office or visit our website.

T BALL- City Park

Open to children ages 5 and 6 as of June 1 of the current year. Practices start in April and games will begin in late May and run through July.

Ζ

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BASEBALL- City Park

Open to boys ages 7-14 as of June 1st of the current year. Practices start in April and games will begin in late May and run through July.

SOFTBALL- City Park O

SWIMMING POOL - High School

Pool hours: Mon-Fri 5:30-7:00 am and 6:30-8:00 pm. Adult Masters (USMS) Training Group Monday and Wednesday mornings from 5:30-6:30 am. Times subject to change based on swimteam practice.



ADULT KICKBALL- City Park

DAY CAMPS- Lansing Library



- 4th grade swimming classes, field trips (during the school year)
- Night swimming for the community (special evening events once a month or twice a month)
- Water aerobics
- Water therapy
- Family and open swim times during the summer
- This would promote the use of the water resource that the City
- 1. Farmer's Market plan for the Southern shelter at Bernard Park.
- 2. A maintenance facility located 4. Update the water banks in Bernard Park to facilitate all of the sports fields and proarams.
- 3. A nature learning center, or kiosk to help facilitate the nature education day camps

- scape.
- in Bernard Park with more benches and shelters to help promote more fishing.
- 5. Small maintenance buildings at Willow and City Park to streamline maintenance.

- 1. Expanding the Fishing Derby
- Boy scout/girl scout swim days

- already has.
- 3. Farmer's Market -The Southern shelter at Bernard Park can serve as a perfect spot for a farmer's market, which would encourage a routine community activity and promote a local economy.
- 4. Nature Education -Tree and native plants/species day camps for kids 5-8 at Bernard Park in the arboretum would get kids involved in learning about the environment and the landscape around them. Suggestion to partner with the Tree Board.

as well as have a place for the public to learn about the land-



PARK AND FACILITY RECOMMENDATIONS

Park System Goals

As part of the project kick-off, City Staff, along parks currently have enough parking to accomwith the design team. crafted the goals below modate all of the cars that are present during to help develop a successful park system. Each these games, which leads to cars lining neighof these goals is specifically tailored to the park borhood streets, blocking driveways and upsetsystem in Lansing and is designed to provide the ting neighbors. biggest improvement to the amenities offered. These reasons and the philosophy behind each Expand Lansing's Trail System and Congoal are explained below: nect to Parks and Recreation Amenities

Neighborhood Park Uses

This goal was requested by the community and **Consolidate Sports Activities to Bring Back** City Staff, that would also create safer routes to school. Lansing's trail system continues to Currently, soccer and baseball are divided begrow as larger trails continue to be implemented tween three parks: Willow Park, City Park and around the City. The goal is to encourage that Bernard Park. The soccer is held at Willow growth, but specifically between each of the and Bernard, while City Park is used for baseparks. The trail system in Lansing is growing, but ball. Willow and City Park are in the middle of not necessarily connecting each of the parks, which would be a great asset for the community. neighborhoods, and currently don't offer many neighborhood park amenities. By consolidating Make Park Trails More Bicycle Friendly the sport activities to Bernard Park, these other parks would be freed up to offer more suitable This goal pertains to the individual park walking uses for their locations in proximity to where trails, where most currently aren't wide enough, residents live. or aren't paved to a level that allows bicycle

Raise the Health, Safety and Welfare of **Kids by Improving Play Experiences**

all of the trails in each of the parks, usable by This goal is to improve all of the play experiences in the park system by upgrading all play features and surfaces that aren't currently up parks. to standard. The sports fields that are currently Provide a Restroom at Every Park being used are not optimal. Many of the fields This goal is to offer a restroom as a needed are not graded properly, which creates drainage amenity to each of the parks in Lansing. Lansing issues and hazards for the kids playing the sport. This is also the case for several of the playand is not open unless a game is taking place. grounds, or play structures, which are outdated and need to be replaced.

Eliminate Peak Parking Draws in Neighborhoods

The goal is to add uses to the neighborhood parks that don't flood the parking lot, or the neighborhood with cars. This goal works in conjunction with the first, the consolidation of sports. By having sports activities held in neighborhood parks, it creates a peak time that cars need to park for sports games. None of the

traffic as well as pedestrians. At the request of the community and City Staff, it is a goal in the following recommendations to make most, if not bikes. This would fill an amenity gap in Lansing's

- currently only offers one restroom at City Park
- All other parks either have a portable restroom, or none at all. This was a serious issue that was raised by the community and City Staff.

Park Recommendations

Taking the goals and addressing existing and recommended programs, the design team developed the following park master plans.

Bittersweet Park \$500k-700k* *If all improvements are made

Bittersweet Park is currently a piece of undeveloped park property off of Bittersweet Lane and Frances Lane, adjacent to Lansing Heights, an apartment complex and Stonecrest, a subdivision. This park is currently covered in dense vegetation. This design proposes to keep as much of the native landscape as possible. This park is also unique in having a large hill on the East side of the property, creating a lookout over the city. It was important to emphasize the unique qualities of this park within these recommendations.

This park features:

- A scenic lookout on top of the hill on the East side, designed to shield the view of the people on the lookout to the apartments below, creating more privacy. This will also include a fabric shade structure for user's comfort.
- A quarter-mile long, ADA accessible walking trail that circles the whole park property. This trail will be paved to comply with ADA standards and therefore would allow for bike usage as well.
- Benches will be placed periodically around the walking trail to offer seating and areas for nature observation.
- A small shelter placed at the beginning of the trail will allow park-goers a shelter for picnicking, family gatherings, as well as be rentable for revenue generation.
- Future connections are planned at both the Northwest and Northeast corners of the park. Future developments, or trails would be able to connect to the interior trail, creating better connectivity in the surrounding area.



Cost Estimate

Bittersweet Park

Landscape Architecture - Site Pavements / Surfacing / Ra Park Wide Site Furnishing Architectural and Seating W Signage & Wayfinding Architecture - Site Improvem Shelters + Buildings Landscaping and Irrigation Plants and Seed

Civil Improvements
Demo and Removal

Total Improvements

Grading

	Total
e Improvements	
amps	\$ 121,500
	\$ 39,400
Walls	\$ 90,000
	\$ 15,000
nents	
	\$60,000
	\$ 48,000
	\$40,000
	\$30,000
	\$ 591,536

City Park \$4M-6M* *If all improvements are made

City Park is located in the Northeast corner of the city, at the end of American Avenue and N 2nd Street. It's adjacent to two neighborhoods to the North and South, as well as the Lansing Correctional Facility to the Southeast and light industrial uses to the West. This mix of uses creates a unique challenge for this park to appear welcoming and safe. The East side of the park is currently undeveloped due to Sevenmile Creek and the floodplain that it creates.

The recommendations for this park are:

- Have one practice baseball field, tee-ball and redirect the others to Bernard Park. This shifts the focus from sports at this park to other uses and eliminates having games at this location.
- Include a splash pad near the entrance to the park to add aquatics to this area of the City.
- Create a destination play area in the center of the park with large, unique play features to offer a variety of play equpment at the park.
- Include a basketball court and sand volleyball to the North edge of the park to provide a range of activities for people of all ages.
- An improved parking lot to facilitate the amount of people who might visit the park.
- A mile-long walking trail that loops through the entire park, utilizing the Eastern half of the park, which lies in the floodplain. Outdoor exercise equipment would be featured along the trail as well.
- A great lawn to facilitate various events and open field play.
- A main shelter and several smaller shelters scattered around the park to allow for events, or gatherings. The two largest shelters would include a restroom. These would be rentable to allow for revenue generation.
- The areas in yellow would be left as natural grass to facilitate lower maintenance cost and effort.
- The natural topography will be used on the Northwest corner of the park to be used as a sledding hill in the winter.



Cost Estimate

Pavements / Surfacing / Ra Park Wide Site Furnishing **Play Equipment** Aquatics/Spray Park Sports Fields Signage & Wayfinding Architecture - Site Improver Shelters + Buildings Landscaping and Irrigation Plants and Seed **Civil Improvements** Demo and Removal Utilities Grading Parking Areas **Electrical Improvements Electrical Service**

City Park

Landscape Architecture - Sit

Total Improvements

Kelly Grove Park \$400k-600k*

Kelly Grove Park was donated to the City with requirements that it only be trail that goes through the center of the park. This park also has Ninemile creek spanning a large portion of the property. This has created a large

The recommendations for this park are:

- Benches will be placed periodically around the walking trail to offer seating and areas for nature observation.
- boardwalk. This area of the park is almost always flooded and creates a
- Improved parking lot and an additonal 6 spaces to facilitate more visi-
- A paved sidewalk connecting the entrance to the park to S Main Street and connecting to Lansing's proposed trail system.



Kelly Grove Park Landscape Architecture - Site Imp Pavements / Surfacing / Ramps Park Wide Site Furnishing Signage & Wayfinding **Architecture - Site Improvements** Shelters + Buildings Landscaping and Irrigation Plants and Seed **Civil Improvements** Demo and Removal Parking Areas Total Improvements

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S

	Total			
provements				
	\$ 168,750			
	\$ 27,400			
	\$ 15,000			
5				
	\$50,000			
	\$ 26,825			
	\$20,000			
	\$56,130			
	\$ 491,542			

Kenneth W. Bernard **Community Park** \$25M-27M*

*If all improvements are made

Bernard Park is the largest park in Lansing's park system at 128 acres. This park was previously master planned in 2005 and since then the first phase has been completed. Since the first phase has been completed, the City felt the needs had changed in the community and wanted it to be master planned again, which is shown to the right. Currently the only development in the park is the semi-circular parking lot to the South and a shelter with a playground located to the North of the parking lot. All of the trails are currently being mowed by Parks and Recreation.

The recommendations for this park are:

- House all of the soccer and baseball fields in this park. This includes four full-sized soccer fields, five full-sized baseball fields and two tee-ball fields. This allows the other parks to be used for other activities in the community. Bernard Park has the capacity and space for the parking required during games. The baseball complex includes a concession stand and restroom in the center.
- Create a large Lansing Daze shelter with several bathrooms. A drawing of this is provided below. These shelters are integrated into four different sections with different types of play for all different ages. These range from a destination play structure, to pickleball, cornhole, to climbing rocks. These shelters could be rented separately.
- A splash pad located outside of the Lansing Daze shelter. This would include aquatics along with all of the other uses in the park.

- A large shelter and restroom off of the main parking lot. This could be rentable, as well as used for the proposed farmer's market.
- An amphitheater that could be used for performances, events, or concerts.
- An arboretum located at the North end of the park. This would be paired with a nature playground and a welcome center and restroom. This would allow visitors to learn about the surrounding nature as well as different tree types.
- A maintenance building located in the center of the park to facilitate all of the events and sports that might occur in the park.
- More fishing areas as well as more benches and shade along the ponds to encourage fishing in the park.
- A trail network that runs through the entire park, connecting to each amenity. The majority of the trails would be paved, with some nature trails in more difficult areas. The perimeter trail is 1.5 miles, while the internal network is approximately 4 miles.
- 9-hole disc golf over the more difficult topographical area in the Northwest corner of the park.
- Shelters with restrooms and seating are spread around the park to serve the most trafficked areas of the park. These would all be rentable. An approximate total of restrooms throughout this park is five.





Bernard Park	Total			
Landscape Architecture - Site Improvements				
Pavements / Surfacing / Ramps	\$ 1,896,500			
Park Wide Site Furnishing	\$ 156,100			
Play Equipment	\$ 1,510,000			
Aquatics/Spray Park	\$ 670,000			
Sports Fields	\$ 3,288,943			
Signage & Wayfinding	\$ 45,000			
Architecture - Site Improvements				
Shelters + Buildings	\$3,210,000			
Landscaping and Irrigation				
Plants and Seed	\$ 470,100			

Civil Improvements Utilities \$802,900 Grading \$700,000 Parking Areas \$3,234,600 Electrical Improvements **Electrical Service** \$2,980,000 **Total Improvements** \$ 25,601,593

Cost Estimate

Willow Park \$2M-3M* *If all improvements are made

Willow Park is currently the home to Lansing's soccer fields, which serves as the park's main use. The park resides off of W Gilman Road and Willow Street, in a neighborhood. The parking lot currently doesn't fit the need of the soccer games being held there.

The recommendations for this park are:

- Diversify the activities that take place in this neighborhood park by adding a splash pad, bocce ball, pickleball, gaga ball and shuffleboard in one central area. These would be clustered around the main shelter and restroom, the shelter would be rentable, allowing for people of all ages to be able to interact in one space.
- A tot play area and playground located South of the main shelter. These would be paired with climbing rocks and swings to allow for a broad range of ages to participate.
- An upper lawn, which is open to allow for events and open play.
- A lower meadow filled with native grasses to help absorb water runoff and remove mowing areas.
- An adult workout station to accompany the quarter-mile walking trail that loops the whole park.
- Two more shelters in the Southern portion of the park, which would be rentable.

Main Shelter / Restroom Bocce Ball Splash Pad Pickleball Gaga Ball Tot Play / Relocated Playground Climbing Rocks / Swings Shuffleboard Upper Lawn Lower Meadow Adult Workout Station Small Shelter 13 Walking Trail Parking 14 Parking Total: +/- 52

Proposed Amenities

Willow Park

Lanuscape Architecture - Site in
Pavements / Surfacing / Ramps
Park Wide Site Furnishing
Play Equipment
Aquatics/Spray Park
Sports Fields
Signage & Wayfinding
Architecture - Site Improvement
Shelters + Buildings
Landscaping and Irrigation
Plants and Seed
Civil Improvements
Demo and Removal
Utilities
Grading
Parking Areas
Electrical Improvements
Electrical Service

Total Improvements

Cost Estimate



	Total
provements	
i	\$ 220,940
	\$ 91,450
	\$ 543,400
	\$ 450,000
	124,000
	\$ 15,000
s	
	\$530,000
	\$ 62,500
	\$3,325
	\$33,200
	\$20,000
	\$47,305
	\$14,000
	\$ 2,574,324

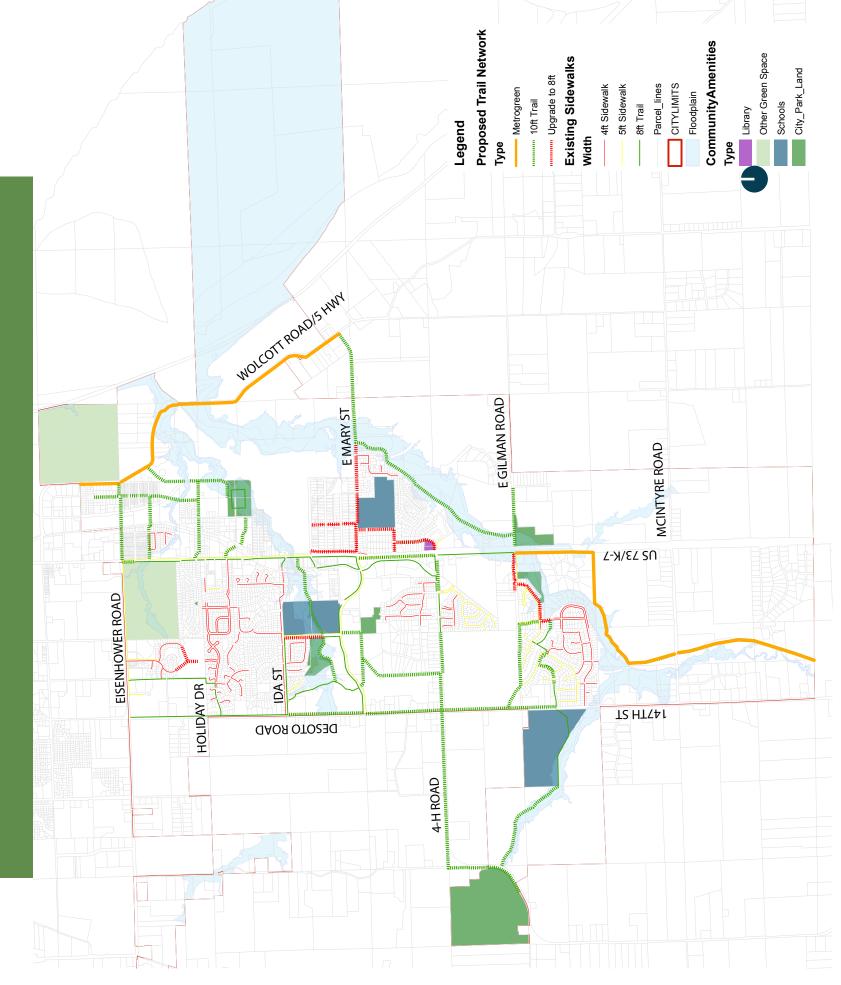
Proposed Trail Map

Lansing's most recent comprehensive plan included a proposed trail map and it has created a lot of concern amongst the community. Lansing's creeks provide optimal paths for trails to run alongside them, but unfortunately, they also run along and sometimes through property lines of residents. This has created some privacy concerns. Another issue the community has raised with Lansing's trail system has been that many trails have been added along major roadways, which has been a safety concern for residents. A goal within the community has been to create safer routes to school, as well as connect parks to one another.

The map on the right has been updated from the comprehensive plan proposed trail map with the goal of providing solutions to all of the above concerns. The additions that have been made to the Lansing Trail system since the comprehensive plan was adopted have also been incorporated in the map.

The major changes made to the map are:

- Widening sidewalks around the middle school and library.
- Adding and connecting sidewalks to the neighborhoods around the schools.
- Changing the Metrogreen trail to a simplified alignment that connects with the existing trail network.
- Adding trails along waterways as much as possible to allow for more grant funding opportunities.
- Added potential trail connections within subdivisions and added proposed connections from those developments.
- Filling the gaps within the existing trail system, focusing on connecting parks.



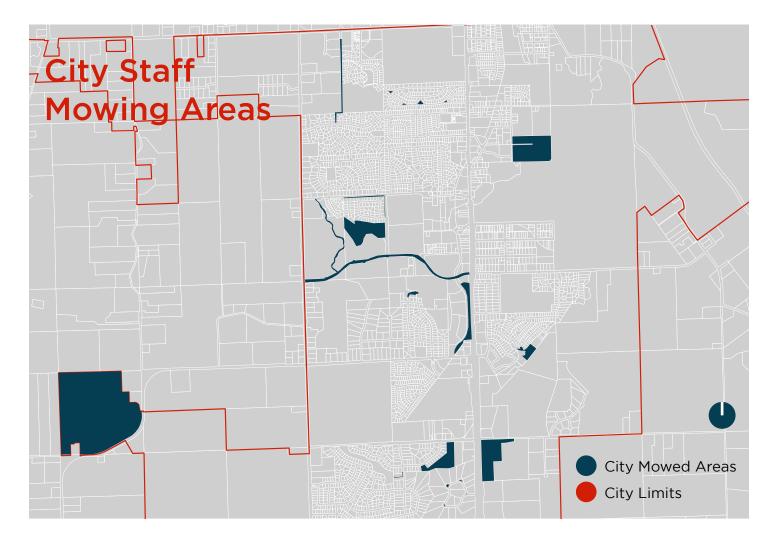
95

MAINTENANCE

Overview

assigned to the maintenance staff that are not related to landscape care. However, the level of staffing and financial resources that the community decides to direct toward grounds and sports field maintenance will ultimately be driven by a cost benefit analysis of the perceived need. The landscape environment within the City of Lansing's parks system combines maturity, beauty, function and topographical diversity. Over 190 acres of landscape acreage is presently maintained for the enjoyment of residents, visitors and employees alike. The amount of mowing that they conduct weekly during the warm months of the year is staggering. There are 14 locations that the Parks Department currently mows and main-

Maintenance greatly influences how desirable parks are to a community. Properly conceived landscape maintenance programs are an essential component of successful landscapes in parks. The greatest limiting factor associated with the long-term success of any landscape design is the maintenance program that carries the design concept successfully into the future. A well-kept field can make the difference between a space for kids to play and an overgrown eyesore. Lansing has many great parks that deserve care and attention. Staffing figures will vary from city to city based on the complexity and acreage of the plant material to be maintained in the landscape, the level tains. With travel and setup time included, using of performance expectation, the level of knowl- 1-2 staff per location they average 55 hours per edge, experience and training of the maintenance week of mowing alone. staff, suitable equipment to perform maintenance tasks, and the number and types of duties



Recommendations For Improving Efficiency and Quality

Within each park design concept, the design team has incorporated the suggestion of many acres of tallgrass prairie species. The intent is to eliminate nearly half of the weekly mowing acreage. The tasks associated with park grounds and sports field maintenance can be completed in a very rapid and task-oriented fashion when little or no consideration is given to the aesthetic value of that task. When the resulting aesthetic quality of the completed task is as important as completing the task itself, more time, effort and money must be invested in order to achieve that goal. In the case of park grounds and sports field maintenance, this translates into an adequate number of dedicated, well trained staff, financially rewarded within realistic industry standards, and supported with the proper equipment and materials to complete both the quantitative and the aesthetic goals at hand. Native grasses are notoriously poor in seedling establishment. Unfortunately, that cannot be overcome by sowing more seed. Exceeding the recommended rate will not increase stand establishment.

- For small areas and broadcast seeding, the total seeding rate should be 9 to 12 pounds pure live seed per acre of the seeding mix. If a grassland drill is used, 6 to 8 pounds pure live seed per acre is adequate. In Kansas, the chances of establishment are best in April and early May after the dry-out of spring rains.
- The general rule for managing a native plant seeding is to do nothing. In the summer following seeding, the area will look like a weed patch. The tendency is to believe the native plant stand is a failure. Controlling the weeds by mowing or using a herbicide will not improve the chances for a successful seeding. Those weed control methods will likely reduce the native plant establishment.
- After seeding, old growth should be removed each spring in mid-March. Mowing and removing old growth speeds establishment of the native species. Mowing later than mid-March reduces the native forbs in the mixture. By the end of the third year, the native warm-season grasses will be the dominant plants.



Source: City of Lansing

Additional **Recommendations**

In addition to the previous recommendations, the design team also suggests the following recommendations if not already in place:

- general understanding of seasonal use and resulting turfgrass wear.

Summary

A properly designed and maintained parks system is one of the first things noticed within a community. The design team recommends a detailed review of current parks maintenance procedures from an agronomic and operations perspective. The intent of this review would be to balance the operations budget with the communities' expectations for level of care throughout the parks system. In order to reduce labor, turf areas that are on steep slopes or consistently wet should be replaced with tallgrasses and wildflowers. We also recommend the locating of a new storage facility within Bernard Park. This would enable easier access and the opportunity of expansion if needed in the future.

 The development of a twelve-month field-use calendar for Athletics and Recreation Activities and Services. Record all activities including practices, games, entertainment and all maintenance activities. Maintain calendars for all fields. This information can be used to monitor field use and overuse. This can also be used as an educational session to staff members from all coaching staffs, recreational operations, and the sports field maintenance staff. This should improve the

The development of a department wide maintenance training program to enhance technical understanding, employee satisfaction and employee turnover at the utility worker level. Regularly scheduled sessions for both in-house training by gualified supervisors and outside educational seminars covering subject areas such as plant identification, general soils, plant nutrition, weed control and pesticide use is also recommended. Two of the most consistently impactful management activities are mowing and weeding. Lansing mows over 100 acres of lawn nearly once a week. This includes parkland, City owned land, and right-of-ways that the City maintains.



IMPLEMENTATION

The City of Lansing's short and long-term futhis study, a significant positive relationship was observed between park coverage and residents' ture with respect to parks and recreation is very bright. With such great leadership and inspirasense of purpose, broadly defined as liking what tion, all that is left now is to discuss the impleyou do every day and being motivated to achieve goals. Lansing is in possession of more dedicated mentation plan. Using the US National Library of Medicine, National Institutes of Health Study acres of parkland than any of the compared cit-"Public Parks and Well Being in Urban Areas of the ies, as well as above the national number of acres to number of residents. Lansing is positioned to United States" (April 2016), research has shown that public parks and green space provide a vasuccessfully utilize the City's parkland to greatly riety of physical, psychological, and social beneimprove the lives of all the residents in Lansing. fits to urban residents. This study examined the This information coupled with historic data from the City of Lansing's Parks and Recreation iminfluence of parks on comprehensive measures provements helps us to focus our initial efforts on of subjective wellbeing at the city level. Results suggest that expansive park networks are linked the amenities that are most needed and wanted to multiple aspects of health and wellbeing in citin the community. ies and positively impact urban quality of life. In

be altered as needs change and funding opportunities arise.

- 1. 5-field baseball/softball complex with parking at Bernard Park*
- 2. Destination splash park at City Park*
- 3. New shelter at City Park*
- 4. 2 full-sized soccer field improvement at Bernard Park
- 5. All other improvements at Bernard and City

As with all renovation projects, we would target improvements within each park prioritized by the needs expressed in the citizens survey as well as available funding for each park. Refer to Section 6 for park-specific improvements and opinions of probable cost. Refer to the Appendix for detailed opinion of probable cost data.

Bond Issue

We suggest starting with a \$5M Bond issue that would be a fantastic first step. That first step would be called Phase 1. Phase 1 intends to start the migration of sports field activities away from neighborhood parks and to Bernard Park. Phase 2 and 3 would follow a similar model. Detailed information about Phases 1-3 are on the following pages.

Principles and Approach

Below is a list of the first 8 targeted parks projects improvements that are recommended with this master plan. The recommendations are prioritized in order of significance as informed by the citizen survey, public engagement, equitable distribution of improvements as defined by past projects, and GIS data. The list can

Park

- 6. Improvements at Willow Park
- 7. Trail improvements and connections throughout the park system
- 8. Improvements at Bittersweet and Kelly Grove Parks

*Projects 1-3 are proposed to be completed in Phase 1

Phase 1 and **Schedule**

Starting with Bernard Park, we recommend the development of 3 major improvements

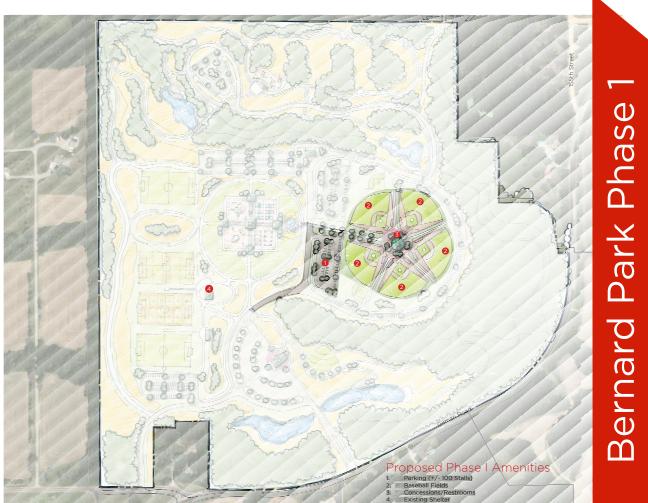
- turf) with 100 +/- parking lot
- A concession/restroom/storage structure in pany the baseball/softball complex. the center of the baseball/softball complex
- A 2-field soccer improvement is recommended, but not included in this project budget

The improvements proposed for Bernard Park in Phase 1 relocate the baseball/softball activities from City Park and preferably, soccer from Willow Park. This acts as a catalyst for the other parks to be redeveloped as shown in their master plans in Section 6. Bernard Park was identified as being more suited for sports activities due to it's size and not residing in a neighborhood setting. This allows for more parking availability and convenience of having all sports activities in one

location. Phase 1 in Bernard Park would ensure full functionality of baseball/softball and securing • A 5-field baseball/softball complex (native funding for soccer improvements at Bernard is highly recommended, so that use could accom-

Soccer Fields

Since the construction of the soccer fields is not included in the Phase 1 budget, the Parks Department can utilize simple solutions to improve their current condition. The simplest improvement is to improve cultural practices and provide more consistent maintenance. This includes frequent core aeration to promote healthy surface conditions and break up subsurface compaction. This also includes overseeding and diligent topdressing and fertilization programs to improve soil structure.



Project Budget: \$3,861,982.65 Bernard Park Phase 1

Opinion of Probable Cost |Kenneth Bernard Park Lansing Parks and Recreation Master Plan

January - 2020

Landson Avabitatura Cita Inneranta							
Landscape Architecture - Site Improvements Pavements / Surfacing / Ramps		-			\$ 162,000		
Concrete trails - 6" thick	27000	SF	\$ 6.00	\$ 162,000	+,		
Park Wide Site Furnishing					\$ 21,750		
Picnic Table	6	EA	\$ 1,000.00	\$ 6,000			
Drinking Fountain and Bottle Filler	1	EA	\$ 3,250.00	\$ 3,250			
Trash / Recycling Receptacle	5	EA	\$ 1,000.00	\$ 5,000			
Flag Pole	1	EA	\$ 7,500.00	\$ 7,500			
	_	_			A 4 600 005		
Baseball Fields		1.6	A 4 550 005 00	A 4 550 005	\$ 1,693,335		
Baseball Fields (5) Field Irrigation	1	LS EA	\$ 1,550,835.00 \$ 140,000.00	\$ 1,550,835 \$ 140,000			
Dugout Benches	10	EA	\$ 250.00	\$ 140,000 \$ 2,500			
Dugout benches	10	EA	\$ 230.00	\$ 2,500			
Soccer Fields							\$ 654,804
Soccer Fields (2)	1	LS	\$ 478,804.00			\$ 478,804	<i>\$</i> 05 1,00 1
Field Irrigation	1	EA	\$ 80,000.00			\$ 80,000	
6" Water Service	1800	LF	\$ 50.00			\$ 90,000	
Fescue Turf - Seed	20000	SF	\$ 0.30			\$ 6,000	
Soccer Fields							\$ 574,804
Soccer Fields (2)	1	LS	\$ 478,804.00			\$ 478,804	
6" Water Service	1800	LF	\$ 50.00			\$ 90,000	
Fescue Turf - Seed	20000	SF	\$ 0.30			\$ 6,000	
Architecture - Site Improvements							
Shelters + Buildings					\$ 300,000		
Concession w/ Restroom & Storage	1	EA	\$ 300,000.00	\$ 300,000			
	_	_					
Landscaping and Irrigation		_			é 44 700		
Plants and Seed Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	12	EA	\$ 475.00	\$ 5,700	\$ 41,700		
Fescue Turf - Seed	120000	SF	\$ 0.30	\$ 36,000			
Fescue Tull - Seeu	120000	JF	Ş 0.30	3 30,000			
Civil Improvements							
Utilities					\$ 175,000		
6" Water Service	2700	LF	\$ 50.00	\$ 135,000	,		
Backflow preventer (double check)	1	EA	\$ 10,000.00	\$ 10,000			
Leechfield	1	EA	\$ 30,000.00	\$ 30,000			
Grading					\$ 20,000		
Allowance for Misc. General Grading	1	ALL	\$ 20,000.00	\$ 20,000			
Parking Area					\$ 175,000		
Granular Subbase 4" (2 tons per 100 sf.)	1000	TONS	\$ 25.00	\$ 25,000			
Asphalt parking & roads (chip & seal)	50000	SF	\$ 3.00	\$ 150,000			
et at ta state a							
Electrical Improvements		_			ć 200.000		
Site Lighting	4	F 4	ć 200 000 00	ć 200 000	\$ 300,000		
Baseball Field Lighting	1	EA	\$ 300,000.00	\$ 300,000			
Electrical Service					\$ 105,000		
Provide Conduit and Power to Shelters/Fields	2100	LF	\$ 50.00	\$ 105,000	\$ 103,000		
Fromue conduit and Fower to Shelters/Fields	2100	LF	ý JU.UU	ο 100,000			
	T - 1	al 1.a.:		ć 2 002 705			ć 1 220 CO2
	IOT	ui imp	provements	\$ 2,993,785			\$ 1,229,608
General Conditions	10%			\$299,378.50			\$122,960.80
Overhead	5%			\$149,689.25			\$61,480.40
Profit	5%	_		\$149,689.25			\$61,480.40
Inflation	3%			\$89,813.55			\$36,888.24
Design Contingency	6%			\$179,627.10			\$73,776.48
		Pr	oiect Budget:	\$3,861,982.65		Soccer:	\$1,586,194.32
			.,				



City Park Phase 1 **\$1,051,865.25**

Along with the improvements at Bernard Park, City Park will also be receiving improvements. With the relocation of the baseball/softball fields to Bernard Park, we recommend using the vacated fields at City Park to create a destination-style splash park. This includes:

- A destination splash park
- A medium shelter
- The use of the existing parking lot and restroom facility

These improvements in Phase 1 will provide one of the most requested amenities in the citizen survey; aquatics. Although only a piece of the overall City Park master plan, the improvements in Phase 1 will set up the park for further improvements, while still offering a great amenity to the community. This also achieves the before-mentioned goal of bringing back neighborhood uses to Lansing's neighborhood parks. Splash parks don't generate the amount of vehicle traffic that sports games do, which changes the use to something more suitable for a neighborhood environment. There has also been a concern for vandalism in this park, specifically targeting the restroom facility. With the increased frequency of use in the park, it's believed that the vandalism will be significantly reduced.

Phase 1 Schedule



Opinion of Probable Cost | City Park Lansing Parks and Recreation Master Plan January - 2020

Demolition and Removal	
Demo and Removal	
Remove Playground (In-House)	0
Remove Structures (In-House)	0
Remove Pavement	140
Landscape Architecture - Site Improvements	
Pavements / Surfacing / Ramps	
Concrete trail/walkways - 6" thick	220
Park Wide Site Furnishing	
Park Bench	4
Picnic Table	4
Trash / Recycling Receptacle	4
Play Equipment	
Engineered Wood Fiber	0
Destination Play	0
Aquatics/Spray Park	
Spray Ground	1
Architecture - Site Improvements	
Shelters + Buildings	
Small Shelter	1
Landscaping and Irrigation	
Plants and Seed	
Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	5
Ornamental Trees - B&B 1.5" Cal - Eastern Redbud	3
Fescue Turf - Seed	1350
Civil Improvements	
Utilities	
3" Water Service	100
Backflow preventer (double check)	1
6" Sanitary Service Line with main connection	100
Grading	
Allowance for Misc. General Grading	1
Electrical Improvements	
Electrical Service	
Provide Conduit and Power to Shelter	100
	7
General Conditions	10%
Overhead	5%
Profit	5%

Demolition and Removal					
Demo and Removal					\$ 4,200
Remove Playground (In-House)	0	LS	\$ 2,000.00	-	
Remove Structures (In-House)	0	LS	\$ 12,000.00	-	
Remove Pavement	1400	SF	\$ 3.00	\$ 4,200	
andscape Architecture - Site Improvements					
Pavements / Surfacing / Ramps					\$ 13,200
Concrete trail/walkways - 6" thick	2200	SF	\$ 6.00	\$ 13,200	
Park Wide Site Furnishing		_			\$ 18,800
Park Bench	4	EA	\$ 2,000.00	\$ 8,000	\$ 18,800
Picnic Table	4	EA	\$ 1,000.00	\$ 4,000	
Trash / Recycling Receptacle	4	EA	\$ 1,700.00	\$ 6,800	
	4	LA	\$ 1,700.00	\$ 0,800	
Play Equipment		-			
Engineered Wood Fiber	0	SF	\$ 4.00	-	
Destination Play	0	LS	\$ 350,000.00	-	
Aquatics/Spray Park					\$ 675,00
Spray Ground	1	LS	\$ 675,000.00	\$ 675,000	
Architecture - Site Improvements					
Shelters + Buildings					\$ 100,00
Small Shelter	1	EA	\$ 100,000.00	\$ 100,000	
andscaping and Irrigation Plants and Seed		_			\$ 7,475
Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	5	EA	\$ 475.00	\$ 2,375	ş 7,475
Ornamental Trees - B&B 1.5" Cal - Eastern Redbud	3	EA	\$ 350.00	\$ 1,050	
Fescue Turf - Seed	13500	SF	\$ 0.30	\$ 4,050	
	10000		<i>ç</i> 0.00	<i>Ų</i> 1,050	
Civil Improvements					
Utilities					\$ 21,500
3" Water Service	100	LF	\$ 50.00	\$ 5,000	
Backflow preventer (double check)	1	EA	\$ 10,000.00	\$ 10,000	
6" Sanitary Service Line with main connection	100	LF	\$ 65.00	\$ 6,500	
Grading				4	\$ 10,000
Allowance for Misc. General Grading	1	ALL	\$ 10,000.00	\$ 10,000	
ectrical Improvements					
iectifical improvements					
Electrical Service					\$ 5,000
Provide Conduit and Power to Shelter	100	LF	\$ 50.00	\$ 5,000	÷ 5,000
			1	+ -/	
	Tot	al Imr	provements	\$ 855,175	
	100	ur inip	overnerits		
General Conditions	10%			\$85,517.50	
Overhead	5%			\$42,758.75	
Profit	5%			\$42,758.75	
Inflation	3%			\$25,655.25	
Design Contingency	6%			\$51,310.50	

\$3,861,982.65	Bernard Park
\$1,051,865.25	City Park

Total: \$4,913,847.90 Budget: \$5M

Project Budget: \$1,051,865.25

Phase 2 **\$20M Bond Issue**

We suggest a \$20M Bond issue for Phase 2. \$20M • Fishing docks and additional detention pond would be used to make improvements at Bernard • The Lansing Daze shelter and play areas, Park, City Park, Willow Park.

Phase 1 will complete the ballfields and addition- • Disc golf al parking, as well as a road. Phase 2 proposes • Paved trails to make all of the improvements shown on the • The majority of the shelters and restrooms graphic below. These include:

- The last two soccer fields
- The amphitheater

- including splash park
- Additional parking

This would allow the park to be nearly complete, according to the master plan.

Bernard Park Phase 2 **\$13,849,708.32**



Opinion of Probable Cost | Kenneth Bernard Park Lansing Parks and Recreation Master Plan

January - 2020

Landscape Architecture - Site Improvements Pavements / Surfacing / Ramps Concerne targine - (" thick	457.000	65	
Concrete trails - 6" thick Decorative Pavement	157,000 0	SF SF	
Park Wide Site Furnishing Park Bench	28	EA	\$
Picnic Table	17	EA	\$
Drinking Fountain and Bottle Filler Bike Racks	3	EA EA	\$ \$
Trash / Recycling Receptacle	11	EA	\$
Flag Pole	1	EA	\$
Aquatics/Spray Park			
Fishing Docks Spray Ground Materials	2	EA LS	\$ \$3
Spray Ground Installation	1	LS	\$ 2
Play Equipment			
Nature Play Synthetic Turf	0 38000	LS SF	\$ 2
Large Play	1	LS	\$6
Sports Fields			
Baseball Fields (5)	1	LS	\$1,
Field Irrigation Dugout Benches	1 10	EA	\$1
Soccer Fields (2)	2	EA	\$ 2
Soccer Field Irrigation 6" Water Service	1 1800	EA LF	\$:
Fescue Turf - Seed	20000	SF	
Cornhole Disc Golf	8	EA EA	\$ \$ 2
Pickleball	6	EA	Ş.
Signage & Wayfinding			
Primary	1	EA	\$
Secondary	3	EA	\$
Architecture - Site Improvements			
Shelters + Buildings Vehicular Bridge	0	EA	\$5
Maintenance Building	1	EA EA	\$1 \$1
Restroom Pedestrian Bridge	1	EA	\$1
Concession w/ Restroom	1	EA	\$ 2
Ampitheater Medium Shelter w/ Restroom	1	EA EA	\$ 5 \$ 2
Large Shelter w/ Restroom Small Shelter	1 4	EA EA	\$ 2 \$ 1
Low Water Crossing	1	EA	\$!
Landscaping and Irrigation			
Plants and Seed		54	
Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	110 150	EA	
Ornamental Trees - B&B 1.5" Cal - Eastern Redbud	100	EA	ç
Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush	10 40	EA EA	
Annuals/Perennials - 1 Gal - Russian Sage	60	EA	
Grasses - 1 Gal Fescue Turf - Seed	40 330000	EA SF	
Native Blend - Seed Mix	500000	SF	
Civil Improvements			
Utilities 6" Water Service	1000	LF	
o water service		EA	\$
Backflow preventer (double check)	5	1.5	
	5 6460	LF	
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading	6460		6.7
Backflow preventer (double check) 6" Sanitary Service Line with main connection		LF LS ALL	\$ 2 \$ 1
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading	6460	LS	
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb	6460 1 1 0	LS ALL LF	
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.)	6460 1 1 0 5740	LS ALL LF TONS	
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic	6460 1 1 0 5740 287000 14400	LS ALL LF TONS SF LF	
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol	6460 1 1 0 5740 287000 14400 40	LS ALL LF TONS SF LF EA	
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21' and 3')	6460 1 1 0 5740 287000 14400	LS ALL LF TONS SF LF	
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21' and 3') Electrical Improvements	6460 1 1 0 5740 287000 14400 40	LS ALL LF TONS SF LF EA	
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21° and 3°) Electrical Improvements Site Lighting	6460 1 1 0 5740 287000 14400 40 26 4	LS ALL TONS SF LF EA EA EA	\$ 1
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21' and 3') Electrical Improvements Site Lighting Baseball Field Lighting Baseball Field Lighting	6460 1 1 0 5740 287000 14400 40 26 4 1	LS ALL LF TONS SF LF EA EA EA EA	\$ 1 \$ 1 \$ 3
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21" and 3") Electrical Improvements Site Lighting Soccer Field Lighting	6460 1 1 0 5740 287000 14400 40 26 4	LS ALL TONS SF LF EA EA EA	\$ 1
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21° and 3°) Electrical Improvements Site Lighting Soccer Field Lighting Baseball Field Lighting T-ball Field Lighting Lansing Daze Lighting Allowance	6460 1 1 0 5740 287000 14400 40 26 4 4 1 2 2	LS ALL LF TONS SF EA EA EA EA EA	\$ 1 \$ 1 \$ 3 \$ 1
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21' and 3') Electrical Improvements Site Lighting Soccer Field Lighting Baseball Field Lighting T-ball Field Lighting	6460 1 1 0 5740 287000 14400 40 26 4 4 1 2 2	LS ALL LF TONS SF EA EA EA EA EA	\$ 1 \$ 1 \$ 3 \$ 1
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21° and 3') Electrical Improvements Site Lighting Baseball Field Lighting Tabali Field Lighting Lansing Daze Lighting Allowance Electrical Service	6460 1 1 1 0 5740 287000 14400 40 26 26 4 1 26 4 1 2300	LS ALL TONS SF EA EA EA EA EA LS LF	\$ 1 \$ 1 \$ 3 \$ 5 \$ 5
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21' and 3') Electrical Improvements Site Lighting Baseball Field Lighting T-ball Field Lighting Lansing Daze Lighting Allowance Electrical Service Provide Conduit and Power to Shelters/Fields	6460 1 1 0 5740 287000 14400 40 26 4 4 1 2 2 1 1 2300 Tot	LS ALL TONS SF LF EA EA EA EA LS	\$ 1 \$ 1 \$ 3 \$ 5 \$ 5
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21° and 3') Electrical Improvements Site Lighting Baseball Field Lighting Tabali Field Lighting Lansing Daze Lighting Allowance Electrical Service	6460 1 1 1 0 5740 287000 14400 40 26 26 4 1 26 4 1 2300	LS ALL TONS SF EA EA EA EA EA LS LF	\$ 1 \$ 1 \$ 3 \$ 5 \$ 5
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21' and 3') Electrical Improvements Site Lighting Baseball Field Lighting T-ball Field Lighting Lansing Daze Lighting Allowance Electrical Service Provide Conduit and Power to Shelters/Fields	6460 1 1 1 0 5740 287000 14400 26 4 1 26 4 1 2 26 7 7 7 7 7 7 7 7 7 7 7 7 7	LS ALL TONS SF EA EA EA EA EA LS LF	\$ 1 \$ 1 \$ 3 \$ 5 \$ 5
Backflow preventer (double check) 6" Sanitary Service Line with main connection Grading Detention Areas Allowance for Misc. General Grading Parking Area New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21' and 3') Electrical Improvements Site Lighting Baseball Field Lighting Tabalit Darking Daze Lighting Allowance Electrical Service Provide Conduit and Power to Shelters/Fields	6460 1 1 0 5740 287000 14400 40 26 4 4 1 2 1 2 300 Tot 10% 5%	LS ALL TONS SF EA EA EA EA EA LS LF	\$ 1 \$ 1 \$ 3 \$ 5 \$ 5

All grey items have been completed in previous phases

		\$ 1,020,500
\$ 6.50	\$ 1,020,500	
\$ 8.00	-	
		\$ 114,950
\$ 2,000.00 \$ 1,000.00	\$ 56,000 \$ 17,000	
\$ 3,250.00	\$ 9,750	
\$ 1,500.00	\$ 13,500	
\$ 1,700.00 \$ 7,500.00	\$ 18,700 \$ 7,500	
÷7,500.00	ç 7,500	
		\$ 610,000
\$ 30,000.00 \$ 350,000.00	\$ 60,000 \$ 350,000	
\$ 200,000.00	\$ 200,000	
\$ 250,000.00	-	\$ 1,360,000
\$ 20.00	\$ 760,000	
\$ 600,000.00	\$ 600,000	
		\$ 1,110,804
\$ 1,550,835.00	\$ 1,550,835	
\$ 140,000.00	\$ 140,000	
\$ 250.00 \$ 239,402.00	\$ 2,500 \$ 478,804	\$ 654,804
\$ 80,000.00	\$ 80,000	, <i>p</i>
\$ 50.00	\$ 90,000	
\$ 0.30 \$ 2,000.00	\$ 6,000 \$ 16,000	
\$ 200,000.00	\$ 200,000	
\$ 40,000.00	\$ 240,000	
		\$ 45,000
\$ 15,000.00	\$ 15,000	+ .5,000
\$ 10,000.00	\$ 30,000	
		\$ 1,930,000
\$ 500,000.00	-	
\$ 120,000.00 \$ 120,000.00	\$ 120,000 \$ 120,000	
\$ 120,000.00	\$ 120,000	
\$ 220,000.00	\$ 300,000	
\$ 500,000.00	\$ 500,000	
\$ 250,000.00 \$ 290,000.00	\$ 250,000 \$ 290,000	
\$ 120,000.00	\$ 480,000	
\$ 50,000.00	\$ 50,000	
		\$ 516,150
\$ 500.00	\$ 55,000	
\$ 475.00 \$ 350.00	\$ 71,250 \$ 35,000	
\$ 60.00	\$ 600	
\$ 70.00	\$ 2,800	
\$ 25.00 \$ 25.00	\$ 1,500 \$ 1,000	
\$ 0.30	\$ 99,000	
\$ 0.50	\$ 250,000	
		\$ 519,900
\$ 50.00	\$ 50,000	
\$ 10,000.00 \$ 65.00	\$ 50,000 \$ 419,900	
3 03.00	3413,500	
A 250	A and	\$ 350,000
\$ 250,000.00 \$ 100,000.00	\$ 250,000 \$ 100,000	
÷ 100,000.00	÷ 100,000	
A 20.4-		\$ 1,349,100
\$ 20.00 \$ 25.00	- \$ 143,500	
\$ 4.00	\$ 1,148,000	
\$ 3.50	\$ 50,400	
\$ 50.00 \$ 200.00	\$ 2,000 \$ 5,200	
J 200.00	پ J,200	
		\$ 1,155,000
\$ 135,000.00	\$ 540,000	
\$ 300,000.00	\$ 300,000	
\$ 60,000.00	\$ 120,000	
\$ 500,000.00	\$ 500,000	
\$ 50.00	\$ 115,000	
	¢ 40 700 000	4 40 705 000
provements	\$ 10,736,208	\$ 10,736,208
	\$1,073,620.80	
	\$536,810.40	
	\$536,810.40	
	\$322,086.24 \$644,172.48	
roject Budget:	\$13,849,708.32	

The soccer number doubles if Phase I recommendations were not met.



City Park Phase 2 | **\$3,575,305.95**

Phase 1 of City Park proposed to complete a shel- With these improvements proposed for Phase ter and splash pad. These were identified as the 2, City Park would be complete, based on the most important, first improvements.

Phase 2 proposes to complete all of the remaining improvements that were not outlined in Phase 1. These are shown in the above graphic.

These include:

- A practice baseball field
- Improved parking
- The clearing of the East side of the park
- A trail system throughout the park
- A pedestrian bridge over the creek to the East
- A basketball court
- Sand Volleyball
- An additional shelters
- A destination playground
- Trail amenities like benches and exercise equipment
- Improved landscaping for decreased maintenance

above master plan and opinion of probable cost. A Phase 3 for City Park would not be needed.

Phase 2 Costs:

\$13,849,708.32 Bernard Park \$3,575,305.95 City Park

Total: \$17,425,014.27 Budget: \$20M

Opinion of Probable Cost | City Park

Lansing Parks and Recreation Master Plan 1------

Inflation

Design Contir

Δ	//	ar
<u> </u>	11	91

Demolition and Removal					
Demo and Removal					\$ 142,5
Remove Playground	1	LS	\$ 2,000.00	\$ 2,000	, ,-
Remove Structures	1	LS	\$ 12,000.00	\$ 12,000	
Remove Pavement Clearing and Grubbing	40860 1	SF LS	\$ 3.00 \$ 20,000.00	\$ 122,580 \$ 20,000	
	1		\$ 20,000.00	Ş 20,000	
Landscape Architecture - Site Improvements					
Pavements / Surfacing / Ramps ADA Curb Ramp	5	EA	\$ 500.00	\$ 2,500	\$ 255,8
Concrete trail/walkways - 6" thick	38980	SF	\$ 6.50	\$ 253,370	
· ·					
Park Wide Site Furnishing	10	54	¢ 2.000.00	ć 22.000	\$ 77,70
Park Bench Picnic Table	16 14	EA EA	\$ 2,000.00 \$ 1,000.00	\$ 32,000 \$ 14,000	
Drinking Fountain and Bottle Filler	2	EA	\$ 3,250.00	\$ 6,500	
Bike Racks	10	EA	\$ 1,500.00	\$ 15,000	
Trash / Recycling Receptacle	6	EA	\$ 1,700.00	\$ 10,200	
Play Equipment					\$ 684,0
Fitness Equipment	1	LS	\$ 60,000.00	\$ 60,000	
Engineer Wood Fiber	600	CY	\$ 40.00	\$ 24,000	
Destination Play	1	LS	\$ 600,000.00	\$ 600,000	
Aquatics/Spray Park					
Spray Ground	0	LS	\$ 675,000.00	•	
Sports Fields					\$ 200,0
Baseball Field Renovation	1	EA	\$ 100,000.00	\$ 100,000	Ş 200,0
Sand Volleyball	2	EA	\$ 10,000.00	\$ 20,000	
Basketball Court	1	EA	\$ 80,000.00	\$ 80,000	
Signage & Wayfinding					\$ 15,00
Primary	1	EA	\$ 15,000.00	\$ 15,000	<i> </i>
Architecture - Site Improvements Shelters + Buildings					\$ 690,0
Restroom	1	EA	\$ 120,000.00	\$ 120,000	\$ 050,0
Medium Shelter w/Restroom	1	EA	\$ 250,000.00	\$ 250,000	
Small Shelter	2	EA	\$ 100,000.00	\$ 200,000	
Pedestrian Bridge	1	EA	\$ 120,000.00	\$ 120,000	
Landscaping and Irrigation					
Plants and Seed					\$ 209,5
Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	<u>30</u> 35	EA EA	\$ 500.00 \$ 475.00	\$ 15,000 \$ 16,625	
Ornamental Trees - B&B 1.5" Cal - Eastern Redbud	25	EA	\$ 350.00	\$ 8,750	
Fescue Turf - Seed	131500	SF	\$ 0.30	\$ 39,450	
Native Blend - Seed Mix	251000	SF	\$ 0.50	\$ 125,500	
Civil Improvements					
Utilities					-
3" Water Service	0	LF	\$ 50.00	-	
Backflow preventer (double check) 6" Sanitary Service Line with main connection	0	EA LF	\$ 10,000.00 \$ 65.00	-	
o Sanitary Service Line With Hidin Connection	0	LF	ο ο ο ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο	-	
Grading					\$ 40,00
Allowance for Misc. General Grading	1	ALL	\$ 40,000.00	\$ 40,000	
Parking Area					\$ 441,8
Asphalt Maintenance Road	7500	SF	\$ 4.00	\$ 30,000	φ ++1,0
Concrete parking spaces	57500	SF	\$ 6.50	\$ 373,750	
Granular Subbase 4" 4" White Thermoplastic	1150 2580	TONS LF	\$ 25.00 \$ 3.50	\$ 28,750 \$ 9,030	
Handicapped Pavement Markings symbol	7	EA	\$ 50.00	\$ 350	
Electrical Improvements					\$ 15,00
Site Lighting					
Baseball Field Lighting - Keep Existing	0	EA	\$ 290,000.00	-	
Electrical Service Provide Conduit and Power to Shelters	300	LF	\$ 50.00	\$ 15,000	
	300	LF	φ 30.00	ς το,000	
	Τn	tal Im	provements	\$ 2,771,555	
	,0			+ _, _ ,	
General Conditions	10%			\$277,155.50	
	=0/			\$138,577.75	
Overhead Profit	<u> </u>			\$138,577.75	

rev items have been completed in previous phases.

Project Budget: \$3,575,305.95

Lansing Parks and Recreation Master Plan

\$83,146.65

\$166.293.30

Phase 2 for Willow Park is the first and only Phase These improvements will shift the main activities ments.

With Phase 1 and 2 proposing to relocate soc- All of the proposed improvements in Phase 2 fall cer fields to Bernard Park, Willow Park would be within the \$20M budget, based on the opinions able to be completed following the master plan, of probable cost, which are done as accurately shown below.

The improvements proposed for Willow Park include:

- A large main shelter and restroom
- A splash pad
- An upgraded parking lot
- Several small shelters
- New playgrounds •
- Bocce Ball
- Gaga Ball
- Shufflebord
- Pickleball
- Workout stations
- Improved landscaping for decreased maintenance

needed to complete all of the proposed improve- from soccer to more neighborhood-friendly uses, which don't draw as many vehicles.

as possible.

Phase 2 Costs:

\$13,849,708.32	Bernard Park
\$3,575,305.95	City Park
\$2,574,324	Willow Park

Total: \$19,999,338.27

Budget: \$20M



Willow Park Phase 2 | **\$2,574,324**

Opinion of Probable Cost | Willow Park

Lansing Parks and Recreation Master Plan January - 2020

Demolition an	d Removal
	and Removal
	Remove Existing Walkway
	Remove Structure
	Remove Shed
	hitecture - Site Improvements
Pavem	ents / Surfacing / Ramps
	ADA Curb Ramp
	Concrete walkways - 4" thick
	Concrete edging - 1'
Park W	ide Site Furnishing
T dik W	Park Bench
	Park Table
	Drinking Fountain and Bottle Filler
	Bike Racks
	Trash / Recycling Receptacle
Play Eq	uipment
	Fitness Equipment
	Small Playground
	Medium Playground
	Engineer Wood Fiber
Aquati	ss/Spray Park
Aquatio	cs/Spray Park Spray Ground
	σριαγοιθαία
Sports	Fields
500105	Bocce Ball
	Shuffleboard
	Gagaball
	Pickleball
Signage	e & Wayfinding
	Primary
	Site Improvements
Shelter	s + Buildings Large Shelter w/ Restroom
	Small Shelter
	Sinai Sheiter
Landscaping a	nd Irrigation
	and Seed
	Deciduous Trees - B&B 2" Cal - Swamp White Oak
	Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm
	Ornamental Trees - B&B 1.5" Cal - Eastern Redbud
	Shrubs - 5 Gal - Juniper
	Fescue Turf - Seed
	Native Blend - Seed Mix
Civil Improven	
Utili	
	3" Water Service
	Backflow preventer (double check) 6" Sanitary Service Line with main connection
	o partically bervice Line with main connection
Gradin	σ
Gradin	Allowance for Misc. General Grading
Parking	g Areas
	New Curb
	Asphalt Overlay
	4" White Thermoplastic
	Handicapped Pavement Markings symbol
	ovements
Electrical Impr Electric	cal Service
	cal Service
	cal Service
	cal Service
	al Service Provide Conduit and Power to Shelter
	cal Service

General Conditions
Overhead
Profit
Inflation
Design Contingency

FO	15	Ś C FO	¢ 22E	\$ 3,325
50 1	LF LS	\$ 6.50 \$ 1,000.00	\$ 325 \$ 1,000	
 1	LS	\$ 2,000.00	\$ 2,000	
		+ =/•••••	+ _/***	
				\$ 220,940
2	EA	\$ 500.00	\$ 1,000	
38680	SF	\$ 5.50	\$ 212,740	
360	LF	\$ 20.00	\$ 7,200	
				Ć 04 450
8	EA	\$ 2,000.00	\$ 16,000	\$ 91,450
0 14	EA	\$ 4,000.00	\$ 56,000	
14	EA	\$ 3,250.00	\$ 3,250	
4	EA	\$ 1,500.00	\$ 6,000	
6	EA	\$ 1,700.00	\$ 10,200	
				\$ 419,880
1	LS	\$ 60,000.00	\$ 60,000	
1	LS	\$ 100,000.00	\$ 100,000	
1	LS	\$ 250,000.00	\$ 250,000	
247	CY	\$ 40.00	\$ 9,880	
				÷ 150.000
1	1.0	ć 450.000.00	¢ 450.000	\$ 450,000
1	LS	\$ 450,000.00	\$ 450,000	
				\$ 124,000
2	EA	\$ 15,000.00	\$ 30,000	Ş 124,000
2	EA	\$ 6,000.00	\$ 12,000	
1	EA	\$ 2,000.00	\$ 2,000	
2	EA	\$ 40,000.00	\$ 80,000	
				\$ 15,000
1	EA	\$ 15,000.00	\$ 15,000	
1	ГА	ć 200 000 00	ć 200.000	\$ 530,000
2	EA EA	\$ 290,000.00 \$ 120,000.00	\$ 290,000 \$ 240,000	
2	LA	\$ 120,000.00	Ş 240,000	
				\$ 62,500
30	EA	\$ 500.00	\$ 15,000	
30	EA	\$ 475.00	\$ 14,250	
15	EA	\$ 350.00	\$ 5,250	
10	EA	\$ 60.00	\$ 600	
38000	SF	\$ 0.30	\$ 11,400	
32000	SF	\$ 0.50	\$ 16,000	
				\$ 33,200
100	LF	\$ 50.00	\$ 5,000	ə əə,200
1	EA	\$ 10,000.00	\$ 10,000	
280	LF	\$ 65.00	\$ 18,200	
				\$ 20,000
1	ALL	\$ 20,000.00	\$ 20,000	
		1.2.2	1	\$ 11,305
500	LF	\$ 20.00	\$ 10,000	
0	SF	\$ 2.00	-	
330 3	LF	\$ 3.50	\$ 1,155	
3	EA	\$ 50.00	\$ 150	
				\$ 14,000
				÷ 17,000
280	LF	\$ 50.00	\$ 14,000	
Tot	al Im	provements	\$ 1,995,600	
100	.ar innp	JI OVCITIETILS	φ 1,555,000	

10% \$199,560.00 5% \$99,780.00 5% \$99,780.00 3% \$59,868.00 \$119,736.00

Project Budget: \$2,574,324.00

Phase 2- AQUATICS Additional \$8-12M

Aquatic Trends

Benefits of Swimming Pools

Local Prospective

According to the Physical Activity Council's 2016 Participant Report, all age groups see swimming as a future fitness activity. Individuals ages 25-35 rate swimming as their top interest among 10 different activities that include camping, bicycling, hiking, running, canoeing, backpacking, working with machines, working with weights or kayaking. Those ages 35-65+ rate swimming as their second favorite interest. Swimming and other water-related activities are excellent ways to get the physical activity and health benefits needed for a healthy life. In addition to the health benefits, swimming pools are natural gathering places and provide a place for families with children and teens to engage.

According to the Lawrence Journal World in 2019, the City's Outdoor Aquatic Center closed two weeks early this summer because of staffing and financial issues. Both Tonganoxie and Bonner Springs closed during the week and only remained open for shortened hours on weekends due to lifeguard shortages and financial concerns. The shrinking body available for lifeguards challenges most communities within the region. It is for these reasons that we are suggesting the introduction of aquatics to the Lansing communities through the development of spray grounds

Swimming Pools Today

According to Mick Nelson, Facilities Development Director for USA Swimming, more than 2,000 pools throughout the U.S. have closed since January 2009. Nelson, who has painstakingly tracked the closing of community pools in recent years, believes there are several reasons behind this rash of closings. These reasons include aging facilities and under utilization. Although this trend continues nationwide, Lansing is in a unique position of not currently having an outdoor aquatics facility.

Spray Grounds Making a Big Splash

Communities across the country are adding spray grounds as one of the most highly reguested and utilized recreation amenities. Spray grounds do not require high levels of staffing, require only minimal maintenance and offer a no-cost (or low-cost) alternative to a swimming pool. They typically appeal to kids 2-12 year-olds and can be a stand-alone facility in a community park or incorporated inside a family aquatic center. It is the recommendation of the design team that the first phase of park improvements includes a spray ground as the initial step into aquatics. Once established, the effectiveness of the spray ground could be evaluated to determine if additional aquatic facilities are necessary to meet the needs of the community.

Aquatics Center Examples

The design team reached out to an aquatic engineer to provide estimated cost information for three existing pools located in similarly sized and nearby communities: Bonner Springs, Leav-onworth and Tonganoxie. Based on square footages and the development of similar aquatics improvements as well as land costs, bath house and similar site and parking improvements, the opinion of probable costs range from \$8 million - \$12 million in 2020 dollars.

Bonner Springs, KS



Leavenworth, KS





Source: NRPA 2019

Tonganoxie, KS



Phase 3 **\$5M Bond Issue**

We suggest a \$5M Bond issue for Phase 3. \$5M The final Phase 3 improvements include: would be used to make the final improvements at • Upgraded and additional gravel trails Bernard Park, and complete Bittersweet Park and • A nature playground Kelly Grove Park.

The proposed improvements for Phase 1 and 2, • A Vehicular bridge if completed, would implement the majority of • A Northern parking lot Bernard Park. The proposed improvements for Phase 3 complete all of the remaining aspects of If these improvements are completed, Bernard the master plan that have not yet been proposed Park would be finished, according to the master to be completed. This is shown below.

- An arboretum
- A detention pond and fishing dock

plan.

Bernard Park Phase 3 | **\$3,823,366.50**



Opinion of Probable Cost | Kenneth Bernard Park Lansing Parks and Recreation Master Plan January - 2020

dscape Architecture - Site Improvements				
Pavements / Surfacing / Ramps Decomposed Granite, 6' wide		88000	SF	\$ 2.50
Decorative Pavement		0	SF	\$ 8.00
Park Wide Site Furnishing				
Park Bench		4	EA	\$ 2,000.0
Picnic Table Drinking Fountain and Bottle Fil	or	9	EA	\$ 1,000.0 \$ 3,250.0
Bike Racks		1	EA	\$ 1,500.0
Trash / Recycling Receptacle		7	EA	\$ 1,700.0
Flag Pole		1	EA	\$ 7,500.0
Aquatics/Spray Park				
Fishing Docks Spray Ground Materials		2	EA LS	\$ 30,000.0
Spray Ground Installation		1	LS	\$ 200,000.
Play Equipment Nature Play		1	LS	\$ 250,000.
Synthetic Turf		38000	SF	\$ 20.00
Large Play		1	LS	\$ 600,000.
Sports Fields				
Baseball Fields (5)		1	LS EA	\$ 1,550,835
Field Irrigation Dugout Benches		10	EA	\$ 140,000. \$ 250.00
Soccer Fields (2)		2	EA	\$ 478,804.
Soccer Field Irrigation 6" Water Service		1 1800	EA	\$ 80,000.0 \$ 50.00
Fescue Turf - Seed		40000	SF	\$ 0.30
Cornhole		8	EA	\$ 2,000.0
Disc Golf Pickleball		<u> </u>	EA	\$ 200,000.
		J. J	51	<i>ү</i> чо,ооо.
Signage & Wayfinding Primary		1	EA	\$ 15,000.
Secondary		3	EA	\$ 10,000.
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itecture - Site Improvements Shelters + Buildings				
Vehicular Bridge		1	EA	\$ 500,000
Maintenance Building		1	EA	\$ 120,000
Restroom Pedestrian Bridge		0	EA	\$ 120,000 \$ 120,000
Concession w/ Restroom		1	EA	\$ 220,000
Ampitheater		1	EA	\$ 500,000
Medium Shelter w/ Restroom Large Shelter w/ Restroom		1	EA EA	
				\$ 290,000
Large Shelter w/ Restroom Small Shelter		1	EA	\$ 290,000
Large Shelter w/ Restroom Small Shelter scaping and Irrigation Plants and Seed		1 4	EA EA	\$ 290,000 \$ 120,000
Large Shelter w/ Restroom Small Shelter scaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - S		1 4 40	EA EA EA	\$ 290,000 \$ 120,000 \$ 500.00
Large Shelter w/ Restroom Small Shelter Plants and Seed Deciduous Trees - B&B 2" Cal - Deciduous Trees - B&B 2" Cal - Ornamental Trees - B&B 1.5" Ca	merald Sunshine Elm	1 4 40 60 20	EA EA EA EA EA	\$ 290,000 \$ 120,000 \$ 500.00 \$ 475.00 \$ 350.00
Large Shelter w/ Restroom Small Shelter scaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 1.2" Ca Ornamental Trees - B&B 1.5" Ca Shrubs - 5 Gal - Juniper	merald Sunshine Elm I - Eastern Redbud	1 4 40 60 20 10	EA EA EA EA EA EA	\$ 290,000 \$ 120,000 \$ 500.00 \$ 475.00 \$ 350.00 \$ 60.00
Large Shelter w/ Restroom Small Shelter Plants and Seed Deciduous Trees - 8&B 2" Cal - 5 Deciduous Trees - 8&B 2" Cal - 5 Ornamental Trees - 8&B 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush	1 4 40 60 20 10 40	EA EA EA EA EA	\$ 290,000 \$ 120,000 \$ 500.00 \$ 475.00 \$ 350.00 \$ 60.00 \$ 70.00
Large Shelter w/ Restroom Small Shelter Iscaping and Irrigation Plants and Seed Deciduous Trees - 8&8 2" Cal - 5 Deciduous Trees - 8&8 2" Cal - 6 Ornamental Trees - 8&8 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow L Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush	1 40 60 20 10 40 60 40	EA EA EA EA EA EA EA EA EA	\$ 200,000 \$ 290,000 \$ 120,000 \$ 500.00 \$ 475.00 \$ 350.00 \$ 350.00 \$ 60.00 \$ 77.00 \$ 25.00 \$ 25.00
Large Shelter w/ Restroom Small Shelter Plants and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - F Ornamental Trees - B&B 1.5" Cal - F Ornamental Trees - B&B 1.5" Cal - F Ornamental Trees - B&B 1.5" Cal - Shrubs - S Gal - Juniper Shrubs - S Gal - Juniper Shrubs - S Gal - Juniper Shrubs - S Gal - Juniper Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal Fescue Turf - Seed	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush	1 40 60 20 10 40 60 40 40 294000	EA EA EA EA EA EA EA EA EA SF	\$ 290,000 \$ 120,000 \$ 500.0 \$ 475.0 \$ 350.0 \$ 60.00 \$ 70.00 \$ 25.00 \$ 25.00 \$ 0.30
Large Shelter w/ Restroom Small Shelter Iscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - 5 Ornamental Trees - B&B 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow L Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush	1 40 60 20 10 40 60 40	EA EA EA EA EA EA EA EA EA	\$ 290,000 \$ 120,000 \$ 500.0 \$ 475.0 \$ 350.0 \$ 60.00 \$ 70.00 \$ 25.00 \$ 25.00
Large Shelter w/ Restroom Small Shelter iscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 1.5" Ca Ornamental Trees - B&B 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix Improvements	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush	1 40 60 20 10 40 60 40 40 294000	EA EA EA EA EA EA EA EA EA SF	\$ 290,000 \$ 120,000 \$ 120,000 \$ 500.0 \$ 475.0 \$ 350.0 \$ 475.0 \$ 350.0 \$ 25.00 \$ 25.00 \$ 0.30
Large Shelter w/ Restroom Small Shelter Iscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - S Deciduous Trees - B&B 2" Cal - Cal Ornamental Trees - B&B 2" Cal - Cal Shrubs - S Gal - Juniper Shrubs - S Gal - Juniper Shrubs - S Gal - Juniper Ornamests - 1 Gal Native Blend - Seed Mix Utilities	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush	1 40 60 20 10 40 60 40 40 294000	EA EA EA EA EA EA EA EA EA SF	\$ 290,000 \$ 120,000 \$ 475.0 \$ 350.0 \$ 350.0 \$ 350.0 \$ 25.00 \$ 25.00 \$ 25.00 \$ 25.00 \$ 25.00 \$ 25.00 \$ 25.00 \$ 25.00 \$ 0.30 \$ 0.50
Large Shelter w/ Restroom Small Shelter Iscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - S Deciduous Trees - B&B 2" Cal - Cal Ornamental Trees - B&B 1.5" Ca Shrubs - S Gal - Juniper Shrubs - S Gal - Juniper Shrubs - S Gal - Flutterby Flow L Annuals/Perennials - I Gal - Rus Grasses - I Gal Rescue Turf - Seed Native Blend - Seed Mix Improvements Utilities 6" Water Service Backflow preventer (double che	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck)	1 40 60 20 10 40 60 40 294000 350000 350000 350000 1	EA EA EA EA EA EA EA EA EA SF SF	\$ 290,000 \$ 120,000 \$ 500.0 \$ 475.0 \$ 475.0 \$ 60.0 \$ 70.00 \$ 25.00 \$ 25.00 \$ 25.00 \$ 0.30 \$ 0.50 \$ 0.50 \$ 0.50 \$ 50.00 \$ 10,000.\$
Large Shelter w/ Restroom Small Shelter Staaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - E Ornamental Trees - B&B 1.5" Cal - E Ornamental Trees - B&B 2.2" Cal - E Ornamental Trees - B&B 1.5" Cal - E Ornamental Trees - B&B 1.5" Cal - E Ornamental Trees - B&B 2.5" Cal - E Ornamental Seed B&B 2" Cal - E Rescue Turf - Seed Native Blend - Seed Mix Utilities 6" Water Service	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck)	1 40 60 20 10 40 60 240 40 350000 350000	EA EA EA EA EA EA EA EA EA EA EA EA EA E	\$ 290,000 \$ 120,000 \$ 500.0 \$ 475.0 \$ 475.0 \$ 475.0 \$ 600.0 \$ 70.00 \$ 25.00 \$ 25.00 \$ 0.30 \$ 0.50 \$ 0.50 \$ 5.000 \$ 10,000 \$ 10,000
Large Shelter w/ Restroom Small Shelter dscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - S Deciduous Trees - B&B 2" Cal - Cal Ornamental Trees - B&B 2" Cal - Cal Shrubs - S Gal - Juniper Shrubs - S Gal - Juniper Shrubs - 3 Gal - Flutterby Flow L Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal Rescue Turf - Seed Native Blend - Seed Mix Utilities 6" Water Service Backflow preventer (double che	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck)	1 40 60 20 10 40 60 40 294000 350000 350000 350000 1	EA EA EA EA EA EA EA EA SF SF LF EA LF	\$ 290,000 \$ 120,000 \$ 500,00 \$ 475,00 \$ 350,00 \$ 25,00 \$ 25,00 \$ 0,50 \$ 0,50 \$ 5,000 \$ 5,0000\$ \$ 5,000\$ \$ 5,
Large Shelter w/ Restroom Small Shelter dscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal -5 Deciduous Trees - B&B 2" Cal -5 Deciduous Trees - B&B 2" Cal -6 Ornamental Trees - B&B 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix Utilities G" Water Service Backflow preventer (double che 6" Sanitary Service Line with ma Grading Detention Areas	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection	1 4 40 60 20 10 40 60 24000 294000 350000 5460 1 6460 1 1	EA EA EA EA EA EA EA EA EA EA EA LF LF LS	\$ 290,000 \$ 120,000 \$ 500,00 \$ 475,00 \$ 350,00 \$ 25,00 \$ 25,00 \$ 25,00 \$ 0,00 \$ 0,00 \$ 5,000 \$ 5,000 \$ 5,000 \$ 5,000 \$ 5,000 \$ 5,000 \$ 5,000 \$ 25,000 \$ 20,000 \$ 20,0000\$ \$ 20,000\$ \$
Large Shelter w/ Restroom Small Shelter dscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - F Ornamental Trees - B&B 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Intlerthy Flow Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix Unprovements Utilities 6" Water Service Backflow preventer (double che 6" Sanitary Service Line with ma Grading	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection	1 40 60 20 10 40 40 294000 350000 5460 1 6460	EA EA EA EA EA EA EA EA SF SF LF EA LF	\$ 290,000 \$ 120,000 \$ 500.0 \$ 475.0 \$ 350.0 \$ 350.0 \$ 25.00 \$ 200 \$ 5.00 \$ 5.000 \$ 5.000 \$ 5.000 \$ 5.000 \$ 5.000 \$ 5.000 \$ 5.000 \$ 5.000 \$ 25.000 \$ 25.0000\$ \$ 25.000\$ \$ 25.00
Large Shelter w/ Restroom Small Shelter dscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - Cal Ornamental Trees - B&B 2" Cal - Cal Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow L Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix Utilities G" Water Service Backflow preventer (double che G" Sanitary Service Line with ma Grading Detention Areas Allowance for Misc. General Gra Parking Area	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection	1 4 40 60 20 10 40 60 40 294000 35000 35000 1 6460 1 6460 1 1 1 1	EA EA EA EA EA EA EA EA EA EA EA LF LF LS ALL	\$ 290,000 \$ 120,000 \$ 500,00 \$ 475,0 \$ 475,0 \$ 475,0 \$ 600,0 \$ 70,00 \$ 25,00 \$ 25,00 \$ 10,000 \$ 65,00 \$ 52,000 \$ 50,000 \$ 50,0000\$ \$ 50,0000\$ \$ 50,000\$ \$ 50,000\$
Large Shelter w/ Restroom Small Shelter Jacaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - 6 Deciduous Trees - B&B 2" Cal - 7 Deciduous Trees - B&B 2" Cal - 7 Deciduous Trees - B&B 2" Cal - 7 Deciduous Trees - B&B 2" Cal - 7 Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal Grading Detention Areas Allowance for Misc. General Gra Parking Area New Curb	imerald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection	1 4 40 60 20 10 40 60 294000 350000 5460 1 5460 1 1 1 1 0 0	EA EA EA EA EA EA EA EA EA EA EA EA EA E	\$ 290,000 \$ 120,000 \$ 500,00 \$ 475,0 \$ 475,0 \$ 475,0 \$ 475,0 \$ 350,00 \$ 70,00 \$ 250,00 \$ 250,00 \$ 0,30 \$ 0,30 \$ 50,00 \$ 250,00 \$ 4,00,000 \$ 250,00 \$ 250,000 \$ 200,000 \$ 200,0000 \$ 200,00000 \$ 200,0000 \$ 200,0000
Large Shelter w/ Restroom Small Shelter scaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - 5 Ornamental Trees - B&B 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix Improvements Utilities 6" Water Service Backflow preventer (double che 6" Sanitary Service Line with ma Grading Detention Areas Allowance for Misc. General Gra Parking Area New Curb Granular Subbase 4" (2 tons per Asphalt parking spaces & rad8	imerald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection	1 4 40 60 20 10 40 60 40 294000 35000 35000 1 6460 1 6460 1 1 1 1	EA EA EA EA EA EA EA EA EA EA EA LF LF LS ALL	\$ 290,000 \$ 120,000 \$ 500,00 \$ 475,00 \$ 475,00 \$ 475,00 \$ 70,000 \$ 70,000 \$ 70,000 \$ 25,000 \$ 0,300 \$ 0,300 \$ 0,300 \$ 0,300 \$ 50,000 \$ 4,00,000 \$ 5,000 \$ 250,000 \$ 200,000 \$ 200,0000 \$ 200,0000 \$ 200,0000 \$ 200,0000 \$ 200,0000 \$ 200,0000 \$ 200,00000 \$ 200,00000 \$ 200,00000 \$ 200,
Large Shelter w/ Restroom Small Shelter Iscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal -5 Deciduous Trees - B&B 2" Cal - C Ornamental Trees - B&B 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow L Annuals/Preemials - 1 Gal - Rus Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix Improvements Utilities 6" Water Service Backflow preventer (double che 6" Sanitary Service Line with ma Grading Detention Areas Allowance for Misc. General Gra Parking Area New Curb Granular Subbase 4" (2 tons per Asphalt parking spaces & roads 4" White Thermoplastic	Inerald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection idding. 100 sf.)	1 4 40 60 20 10 40 294000 35000 35000 10 6460 1 6460 1 1 1 1 1 2400 123000 12000 10000 12000 12000 12000 100000 100000 100000 100000 100000 1000000	EA EA EA EA EA EA EA EA EA EA EA EA EA E	\$ 290,000 \$ 120,000 \$ 500,00 \$ 475,00 \$ 475,00 \$ 475,00 \$ 770,00 \$ 770,00 \$ 770,00 \$ 770,00 \$ 700,00 \$ 700,00 \$ 250,00 \$ 100,000 \$ 250,00 \$ 100,000 \$ 225,00 \$ 225,000 \$ 225,0000\$ \$ 225,000\$ \$ 225
Large Shelter w/ Restroom Small Shelter Iscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - Cal - Cal Ornamental Trees - B&B 1.5" Ca Shrubs - 5 Gal - Junter Shrubs - 3 Gal - Flutterby Flow L Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix Improvements Utilites 6" Water Service Backflow preventer (double che 6" Sanitary Service Line with ma Grading Detention Areas Allowance for Misc. General Gra Parking Area New Curb Granular Subbase 4" (2 tons per Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markin,	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection in connection 100 sf.) gs symbol	1 4 40 60 20 10 40 40 294000 350000 5460 1 1 6460 1 1 1 1 1 1 0 2460 123000 123000 40	EA EA EA EA EA EA EA EA EA EA EA LF LF LLS ALL LF LS ALL EA EA EA EA	\$ 290,000 \$ 120,000 \$ 500.0 \$ 475.0 \$ 475.0 \$ 350.0 \$ 25.0 \$ 20.0 \$ 50.00 \$ 25.0 \$ 25.0 \$ 50.00 \$ 25.0 \$ 25.0 \$ 50.00 \$ 25.0 \$ 35.00 \$ 25.0 \$ 35.00 \$ 25.00 \$ 3 20.00 \$ 5.00 \$ 2.25.00 \$ 2.25.00 \$ 2.25.00 \$ 2.25.00 \$ 2.25.00 \$ 2.25.00 \$ 3.00 \$ 3.000 \$ 3.000 \$ 3.000 \$ 3.000 \$ 3.000\$ \$ 3.
Large Shelter w/ Restroom Small Shelter dscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - 7 Ornamental Trees - B&B 2" Cal - 7 Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow L Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix Improvements Utilities 6" Water Service Backflow preventer (double che 6" Sanitary Service Line with ma Grading Detention Areas Allowance for Misc. General Gra Parking Area New Curb Granular Subbase 4" (2 tons per Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markin ADA tactile warning strip (21' ar	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection in connection 100 sf.) gs symbol	1 4 40 60 20 10 40 294000 35000 35000 10 6460 1 6460 1 1 1 1 1 2400 123000 12000 10000 12000 12000 12000 100000 100000 100000 100000 100000 1000000	EA EA EA EA EA EA EA EA EA EA EA EA EA E	\$ 290,000 \$ 120,000 \$ 500.0 \$ 475.0 \$ 475.0 \$ 350.0 \$ 25.0 \$ 20.0 \$ 50.00 \$ 25.0 \$ 25.0 \$ 50.00 \$ 25.0 \$ 25.0 \$ 50.00 \$ 25.0 \$ 35.00 \$ 25.0 \$ 35.00 \$ 25.00 \$ 3 20.00 \$ 5.00 \$ 2.25.00 \$ 2.25.00 \$ 2.25.00 \$ 2.25.00 \$ 2.25.00 \$ 2.25.00 \$ 3.00 \$ 3.000 \$ 3.000 \$ 3.000 \$ 3.000 \$ 3.000\$ \$ 3.
Large Shelter w/ Restroom Small Shelter dscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - 6 Ornamental Trees - B&B 2" Cal - 6 Ornamental Trees - B&B 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal Fescue Turl - Seed Native Blend - Seed Mix Improvements Utilities G" Water Service Backflow preventer (double che 6" Sanitary Service Line with ma Grading Detention Areas Allowance for Misc. General Gra Rew Curb Granular Subbase 4" (2 tons per Apphat parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markin ADA tactile warning strip (21" ar trical Improvements	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection in connection 100 sf.) gs symbol	1 4 40 60 20 10 40 40 294000 350000 5460 1 1 6460 1 1 1 1 1 1 0 2460 123000 123000 40	EA EA EA EA EA EA EA EA EA EA EA LF LF LLS ALL LF LS ALL EA EA EA EA	\$ 290,000 \$ 120,000 \$ 500,00 \$ 475,00 \$ 350,00 \$ 25,00 \$ 25,00 \$ 25,00 \$ 25,00 \$ 25,00 \$ 25,00 \$ 25,00 \$ 25,000 \$ 25,000 \$ 50,000 \$ 50,000 \$ 25,000 \$ 25,000 \$ 4,000 \$ 25,000 \$ 25,000 \$ 25,000 \$ 3,000 \$ 25,000 \$ 3,000 \$ 3,0000\$ \$ 3,000 \$ 3,0000\$ \$ 3,0000\$ \$ 3,
Large Shelter w/ Restroom Small Shelter dscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal - 5 Deciduous Trees - B&B 2" Cal - Cal Ornamental Trees - B&B 2" Cal - Cal Shrubs - 5 Gal - Nunjer Shrubs - 3 Gal - Flutterby Flow L Annuals/Perennials - 1 Gal - Rus Grasses - 1 Gal Rescue Turf - Seed Native Blend - Seed Mix Utilities G" Water Service Backflow preventer (double che G" Sanitary Service Line with ma Grading Detention Areas Allowance for Misc. General Gra Parking Area New Curb Granular Subbase 4" (2 tons per Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markin, ADA tactile warning strip (21' ar trical Improvements Site Lighting	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection in connection 100 sf.) gs symbol	1 4 40 60 20 10 40 40 294000 350000 5460 1 1 6460 1 1 1 1 1 1 0 2460 123000 123000 40	EA EA EA EA EA EA EA EA EA EA EA LF LF LLS ALL LF LS ALL EA EA EA EA	\$ 290,000 \$ 120,000 \$ 500,00 \$ 475,0 \$ 475,0 \$ 500,0 \$ 70,00 \$ 25,00 \$ 100,000 \$ 65,00 \$ 25,00 \$ 100,000 \$ 65,00 \$ 25,00 \$ 100,000 \$ 65,00 \$ 25,00 \$ 50,000 \$ 50,0000\$ \$ 50,000\$ \$
Large Shelter w/ Restroom Small Shelter Iscaping and Irrigation Plants and Seed Deciduous Trees - B&B 2" Cal -5 Deciduous Trees - B&B 2" Cal - C Ornamental Trees - B&B 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Aus Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix Improvements Utilities G" Sanitary Service Line with ma Grading Detention Areas Allowance for Misc. General Gra Parking Area New Curb Granular Subbase 4" (2 tons per Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markin, ADA tactile warning strip (21' ar trical Improvements Site Lighting Basebal Field Lighting Basebal Field Lighting	merald Sunshine Elm I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection in connection 100 sf.) gs symbol	1 4 40 60 20 10 40 24000 35000 35000 35000 11 6460 11 1 1 1 1 1 1 1 0 2460 113000 113000 113000 113400 113000 113400 113500 113500 113500 113500 113500 1135000 114000 1135000 1140000 1140000 11400000000	EA EA EA EA EA EA EA EA EA EA EA EA EA E	\$ 290,000 \$ 120,000 \$ 500,00 \$ 475.00 \$ 475.00 \$ 475.00 \$ 70,00 \$ 70,00 \$ 25,00 \$ 25,00 \$ 10,000 \$ 25,00 \$ 10,000 \$ 25,00 \$ 10,000 \$ 25,00 \$ 25,000 \$ 25,0000 \$ 25,0000\$ \$ 20,0000\$ \$ 20,0000\$ \$ 20,0000\$ \$ 20,0000\$ \$ 20,000\$ \$ 20,00
Large Shelter w/ Restroom Small Shelter Iscaping and Irrigation Plants and Seed Deciduous Trees - 8&8 2" Cal - 5 Deciduous Trees - 8&8 2" Cal - 5 Deciduous Trees - 8&8 2" Cal - 6 Ornamental Trees - 8&8 1.5" Ca Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Annuak/Perennisis - 1 Gal - Rus Grasses - 1 Gal Fescue Turf - Seed Native Biend - Seed Mix Improvements Utilities 6" Water Service Backflow preventer (double che 6" Sanitary Service Line with ma Grading Detention Areas Allowance for Misc. General Gra Parking Area New Curb Granular Subbase 4" (2 tons per Asphalt parking spaces & roads 4" White Thermoplastic Handrapped Pavement Marking ADA tactile warning strip (21' ar trical Improvements Site Lighting Soccer Field Lighting Baseball Field Lighting	I - Eastern Redbud I - Eastern Redbud avender Butterfly Bush sian Sage ck) in connection in connection in connection gs symbol id 3')	1 4 40 60 20 10 40 60 294000 350000 350000 10 294000 350000 10 294000 11 10 1 1 1 1 1 1 2460 12 40 0 2460 12 26 0 24 0 12 0 0 24 0 12 0 10 10 40 10 10 40 10 10 40 10 10 40 10 10 40 10 10 40 10 10 40 10 10 40 10 10 40 10 10 40 10 10 40 10 294000 350000 10 29400 10 294000 10 2940 10 29400 10 2940 10 2940 10 2940 10 2940 10 2940 10 2940 10 2940 2940 10 2940 10 2940 10 2940 10 2940 10 2940 10 2940 10 2940 10 2940 10 2940 10 2940 10 2940 10 2940 2940 10 2940 10 2940 10 2940 2940 10 2940 10 2940 10 2940 2940 10 2940 10 2940 2940 2940 2940 2940 2940 2940 294	EA EA EA EA EA EA EA EA EA EA EA EA LF EA LS LS LS EA EA EA EA EA EA	\$ 290,000 \$ 120,000 \$ 500,00 \$ 475,0 \$ 475,0 \$ 475,0 \$ 500,00 \$ 70,00 \$ 25,00 \$ 25,00 \$ 25,00 \$ 0,30 \$ 50,00 \$ 25,00 \$ 25,00 \$ 25,00 \$ 25,00 \$ 25,00 \$ 220,00 \$ 20,00 \$ 20,000 \$ 20,0000 \$ 20,00000 \$ 20,00000 \$ 20,00000 \$ 20,0000000 \$ 20,0000000000000000
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get:	\$3,823,366.50	



Bittersweet Park Phase 3 | \$591,536.25

Bittersweet Park was identified as one of the lowest priority parks to make improvements to, This was based on it's potential to offer amenities, which is mostly limited to walking trails. For these reasons, the improvements to this park were reserved for the final phase of implementation.

The proposed improvements include:

- Paved walking trails
- A lookout with a shade structure
- Improved landscaping for limited maintenance requirements

If these improvements are completed, Bittersweet Park would be finished, according to the master plan.

These improvements would be adding a new, functional park to the Lansing park system because as it stands today, Bittersweet Park isn't usable.

Phase 3 Costs:

\$3,823,366.50	Bernard Park
\$591,536.25	Bittersweet Park

Total: \$4,414,902.75 Budget: \$5M

Opinion of Probable Cost | Bittersweet Park Lansing Parks and Recreation Master Plan January - 2020

Demolition and	
Demo an	d Removal
	Clearing and Grubbing
	tecture - Site Improvements
Pavemen	ts / Surfacing / Ramps
	Concrete trail - 4" thick
	Decorative Pavement
Park Wid	e Site Furnishing
	Park Bench
	Park Table
	Trash / Recycling Receptacle
Architect	ural and Seating Walls
	Natural Stone Veneer Walls (2 - 2.5' ht)
Signage &	& Wayfinding
	Primary
Architecture - Si	te Improvements
Shelters ·	+ Buildings
	Fabric Shade Structure
Landscaping and	
Plants an	d Seed
	Shrubs - 5 Gal - Juniper
	Fescue Turf - Seed
	Native Blend - Seed Mix
Civil Improveme	nts
Grading	
	Allowance for Misc. General Grading

General Conditions
Overhead
Profit
Inflation
Design Contingency

				\$ 40,000
1	LS	\$ 40,000.00	\$ 40,000	
				\$ 115,200
19800	SF	\$ 5.50	\$ 108,900	
900	SF	\$ 7.00	\$ 6,300	
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6	EA	\$ 2,000.00	\$ 12,000	
6	EA	\$ 4,000.00	\$ 24,000	
2	EA	\$ 1,700.00	\$ 3,400	
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120	LF	\$ 750.00	\$ 90,000	\$ 90,000
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10	EA	\$ 60.00	\$ 600	+
18000	SF	\$ 0.30	\$ 5,400	
84000	SF	\$ 0.50	\$ 42,000	
			. ,	
				\$ 30,000
1	ALL	\$ 30,000.00	\$ 30,000	
To	tal Imr	provements	\$ 438,175	\$ 438,175
10	un ninp	<i>Novements</i>	<i>Ş</i> 430,173	+
10%			\$43,817.50	
5%			\$21,908.75	
5%			\$21,908.75	
5%			\$21,908.75	
10%			\$43,817.50	

Project Budget:

\$591.536.25

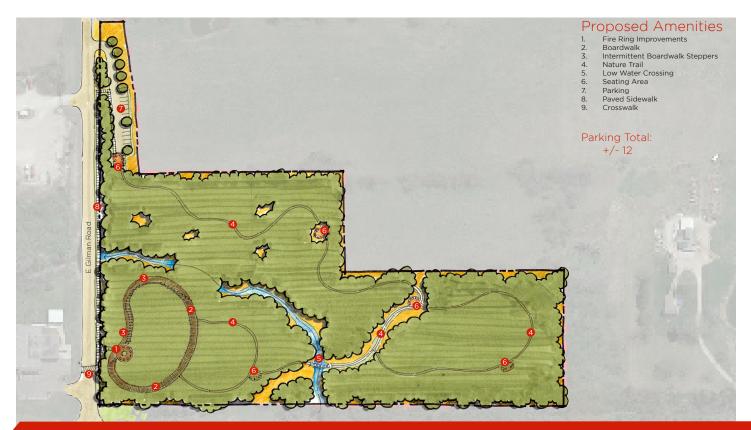
Kelly Grove was also identified as one of the low- If all proposed improvements are made for Phase est priority parks to make improvements to, This 3, all of the parks would be fully updated accordwas based on it's designation as a nature pre- ing to their individual master plans, as well as beserve, as well as its already established walking ing within the budget that is outlined. trails and seating areas. For these reasons, the improvements to this park were also reserved for the final phase of implementation.

The proposed improvements include:

- Updated walking trails
- A boardwalk
- Fire pit improvements
- New low water crossing
- Updated parking lot
- A crosswalk and connecting sidewalk

If these improvements are completed, Kelly Grove Park would be finished, according to the master plan.

These improvements would be increasing the accessibility of the park, by providing more ADA accessible trails, as well as improving wetland areas that are currently not as usable and implementing a crosswalk and sidewalk to improve pedestrian safety.



Kelly Grove Park Phase 3 \$491,541.75

Phase 3 Costs:

\$3,823,366.50	Bernard Park
\$591,536.25	Bittersweet Park
\$491,541.75	Kelly Grove Park

Total: \$4,906,444.50

Budget: \$5M

Opinion of Probable Cost | Kelly Grove Park

Lansing Parks and Recreation Master Plan January - 2020

Development of Development					¢ 20.000
Demo and Removal		10	¢ 20.000.00	ć 20.000	\$ 20,000
Clearing and Grubbing	1	LS	\$ 20,000.00	\$ 20,000	
andscape Architecture - Site Improvements					
Pavements / Surfacing / Ramps					\$ 168,750
Concrete walkways - 4" thick	6000	SF	\$ 5.50	\$ 33,000	
Decomposed Granite, 6' wide	16500	SF	\$ 2.50	\$ 41,250	
Boardwalk	5300	SF	\$ 15.00	\$ 79,500	
Fire Ring Improvements	1	LS	\$ 15,000.00	\$ 15,000	
Park Wide Site Furnishing					\$ 27,400
Park Bench	12	EA	\$ 2,000.00	\$ 24,000	
Trash / Recycling Receptacle	2	EA	\$ 1,700.00	\$ 3,400	
Signage & Wayfinding					\$ 15,000
Primary	1	EA	\$ 15,000.00	\$ 15,000	Ş 15,000
- THIMPY		273	÷ 13,000.00	<i>\$</i> 13,000	
rchitecture - Site Improvements					
Structures					\$ 50,000
Low Water Crossing	1	LS	\$ 50,000.00	\$ 50,000	
andscaping and Irrigation					
Plants and Seed					\$ 26,825
Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	7	EA	\$ 475.00	\$ 3,325	
Native Blend - Seed Mix	47000	SF	\$ 0.50	\$ 23,500	
Parking Areas					\$ 56,130
Asphalt parking spaces	12100	SF	\$ 4.00	\$ 48,400	
Granular Subbase 4"	242	TONS	\$ 25.00	\$ 6,050	
4" White Thermoplastic	180	LF	\$ 3.50	\$ 630	
Crosswalk	1	EA	\$ 1,000.00	\$ 1,000	
Handicapped Pavement Markings symbol	1	EA	\$ 50.00	\$ 50	
	То	tal Imp	provements	\$ 364,105	\$ 364,105
General Conditions	10%			\$36,410.50	
Overhead	5%			\$18,205.25	
Profit	5%			\$18,205.25	
Inflation	5%			\$18,205.25	
Design Contingency	10%			\$36,410.50	
			ject Budget:	\$491,541.75	

General Conditions
Overhead
Profit
Inflation
Design Contingency

Cost of All 3 Phases:

\$4,913,847.90	Phase 1
\$19,999,338.27	Phase 2
\$4,906,444.50	Phase 3

Total: \$29,819,630.67 Budget: \$30M

All of the recommendations outlined in this section are believed to be the most effective and efficient strategy to implementing all of the desired improvements to Lansing's parks.

Revenue and Funding Grants

Transportation Alternatives (TA) Program

The Kansas Department of Transportation offers the following information on their website at www.ksdot.org. "Kansas Department of Transportation's Transportation Alternatives (TA) program provides funding for a variety of alternative transportation projects. These include the construction of pedestrian and bicycle facilities and infrastructure for non-driver access to public transportation, projects that enhance safety and mobility for pedestrians, bicyclists and transit riders, projects that improve scenic or environmental assets in our state, Safe Routes to School projects, and more. All selected projects are required to meet a minimum 20% local cash match." According to the state reports, for Federal Fiscal Year 2020, \$8.5 million in federal funds were awarded to the State of Kansas in 23 counties.

All submitted applications go through the same competitive, multi-phase selection process. More details can be found in the 2020 TA Program Guide. The Guide provides guidance on the program to assist eligible Project Sponsors in compiling and completing applications.

KDOT historically hosts TA Application workshops for possible Project Sponsors to describe, explain and cover the parameters of the TA Program. At the workshop, applicants review program requirements and eligibilities, any changes since the last Call for Projects and participated in open Q&A sessions.

Safe Routes To School (SRTS)

The Safe Routes to School (SRTS) program, which is administered by KDOT through the TA Program, funds walking and bicycle facilities that connect residents to schools. The goals of the program are to: enable and encourage children to walk and bike to school safely; make walking and biking a safer and more appealing transportation choice; facilitate the planning and development of projects and activities that will improve safety; and to reduce traffic, fuel consumption and air pollution in the vicinity of elementary and middle schools. This grant does not require a match, but grant funds are limited to \$500,000 per application per funding cycle. Applications received from a project sponsor may include multiple elements-including sidewalks, bike lanes and speed humps-but cannot exceed \$500,000.

Recreational Trails Program (RTP)

The House and Senate have passed a five-year transportation bill creating the Fixing America's Surface Transportation (FAST) Act that has been signed by the President, leaving Recreational Trails intact. Changes to these bills can occur so it is best to check the Kansas Department of Wildlife, Parks and Tourism's website. According to the website, applications for the Recreational Trail Program grants are accepted August 1st each year to be considered for funding available in each round. Applications received by August 1 of each year are considered for the funding available in the next round.

The grant program provides eighty percent matching funds, on a reimbursement basis, for eligible recreational trail and trail-related projects Since 1965, Kansas has received over \$50 million and funded approximately 700 LWCF projects in nearly every county. Qualifying projects include development and/or acquisition of outdoor facilities for the purpose of public recreation.

Community Development Block Grants

Although this program specifically funds housing, public facilities, economic development and community projects, recreation could be a minor component of the project seeking grant funding. The city has used these funds for streetscape, riverfront development and parking projects in the past-all projects that could support recreation activities. Other ways the funds might be used could include the construction of a mini-park on land purchased by a housing project that services primarily low- to moderate-income families. The program is administered through the Kansas Development Authority

Environmental Education Grants

This program is sponsored by the EPA's Environmental Education Division (EED), Office of Children's Health Protection and Environmental Education. It supports environmental education projects that enhance the public's awareness, knowledge and skills to help people make informed decisions that positively affect environmental quality. The EPA awards grants each year based on funding appropriated by Congress. Annual funding for the program ranges between \$2 and \$3 million. Most grants awarded will be in the \$15,000 to \$25,000 range. These grants could be used to improve the concrete flumed waterways within most parks.

Land And Water Conservation Fund

Since the mid-1960s, the Land and Water Conservation Fund (LWCF) program has provided funds for outdoor recreation acquisition and development. According to the Kansas Department of Wildlife, Parks and Tourism, since 1965, Kansas has received over \$50 million and funded approximately 700 projects in nearly every county. The program provides 50 percent reimbursement to selected outdoor recreation projects that are sponsored by political subdivisions and other appropriate public agencies. Qualifying projects include development and/or acquisition of outdoor facilities for the purpose of public recreation.

Private Grants

Local governments throughout the country are seeking funding for outdoor recreation projects from private philanthropic organizations, foundations and corporations. One private grant example is the American Greenways Kodak Awards Program. This program, administered by The Conservation Fund, provides grants of \$500 to \$2500 to local greenways projects. The purpose of the grants is to stimulate the planning, design and development of greenways. Information can be found at: www.conservationfund.org.

Rehabilitation Service Programs

This program is available through the US Department of Education, Office of Special Education and Rehabilitative Services. The intent of the program is to provide disabled individuals with recreational activities and related experiences that can aid in employment, mobility, socialization, independence and community integration. Specific project activities may include swimming, wheelchair basketball, camping, hiking, water skiing, horseback riding, arts and sports. Historically, applications are due in September of each year.

U.S. Soccer Foundation Grants

The U.S. Soccer Foundation awards grants on both an annual basis (Program grants) and through a rolling process (Safe Places to Play grants) to support soccer programs and field-building initiatives nationwide. Grants are provided to support all aspects of the beautiful game - from assisting programs with operational costs to creating Safe Places to Play. Each season, a grant cycle opens for spring, summer and fall, which cover grants for lighting, irrigation and sport courts. They also offer grant opportunities specifically for synthetic turf and program equipment, these are offered once a vear.



Consolidate Sports Activities to Bring Back Neighborhood Park Uses

Currently, soccer and baseball are divided between three parks: Willow Park, City Park and Bernard Park. The soccer is held at Willow and Bernard, while City Park is used for baseball. Willow and City Park are in the middle of neighborhoods, and currently don't offer many neighborhood park amenities. By consolidating the sport activities to Bernard Park, these other parks would be freed up to offer more suitable uses for their locations in proximity to where residents live.

Raise the Health, Safety and Welfare of Kids by Improving Play Experiences

This goal is to improve all of the play experiences in the park system by upgrading all play features and surfaces that aren't currently up to standard. The sports fields that are currently being used are not optimal. Many of the fields are not graded properly, which creates drainage issues and hazards for the kids playing the sport. This is also the case for several of the playarounds, or play structures. which are outdated and need to be replaced.

Eliminate Peak Parking Draws in Neighborhoods

The goal is to add uses to the neighborhood parks that don't flood the parking lot, or the neighborhood with cars. This goal works in conjunction with the first, the consolidation of sports. By having sports activities held in neighborhood parks, it creates a peak time that cars need to park for sports games. None of the parks currently have enough parking to accommodate all of the cars that are present during these games, which leads to cars lining neighborhood streets, blocking driveways and upsetting neighbors.

Expand Lansing's Trail System and Connect to Parks and Recreation Amenities

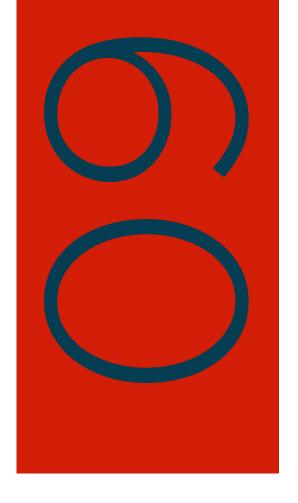
This goal was requested by the community and City Staff, that would also create safer routes to school. Lansing's trail system continues to grow as larger trails continue to be implemented around the City. The goal is to encourage that growth, but specifically between each of the parks. The trail system in Lansing is growing, but not necessarily connecting each of the parks, which would be a great asset for the community.

Make Park Trails More Bicycle Friendly

This goal pertains to the individual park walking trails, where most currently aren't wide enough, or aren't paved to a level that allows bicycle traffic as well as pedestrians. At the request of the community and City Staff, it is a goal in the following recommendations to make most, if not all of the trails in each of the parks, usable by bikes. This would fill an amenity gap in Lansing's parks.

Provide a Restroom at Every Park

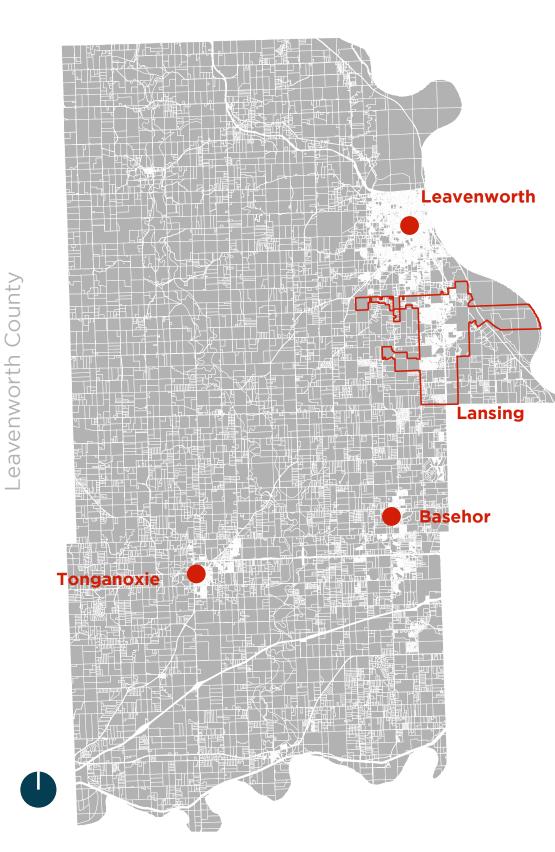
This goal is to offer a restroom as a needed amenity to each of the parks in Lansing. Lansing currently only offers one restroom at City Park and is not open unless a game is taking place. All other parks either have a portable restroom, or none at all. This was a serious issue that was raised by the community and City Staff.



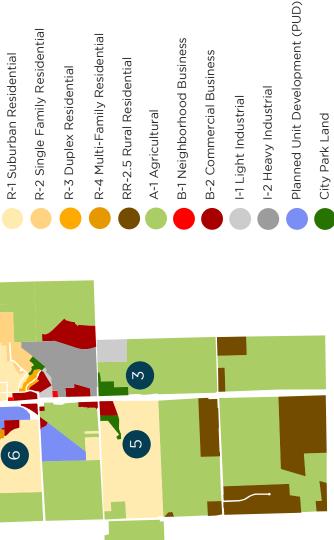
APPENDIX



GIS MAPS CONTEXT MAP



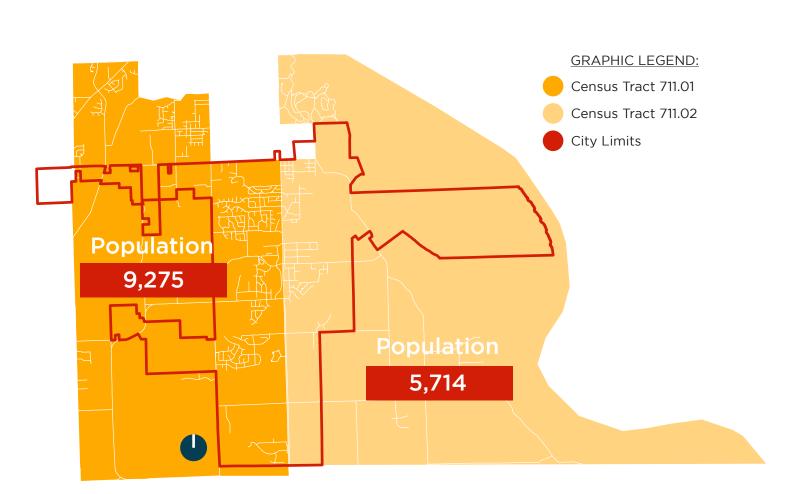
GIS MAPS ZONING MAP **MUNICIPAL ZONING:**

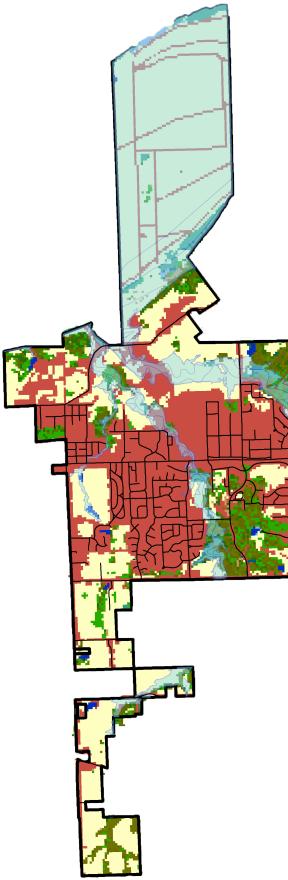


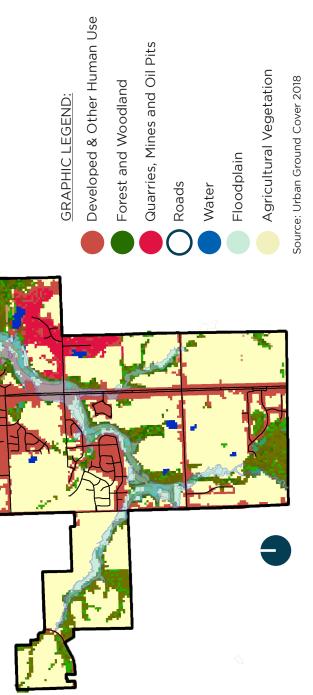


GIS MAPS POPULATION MAP

GIS MAPS URBAN LAND COVER MAP





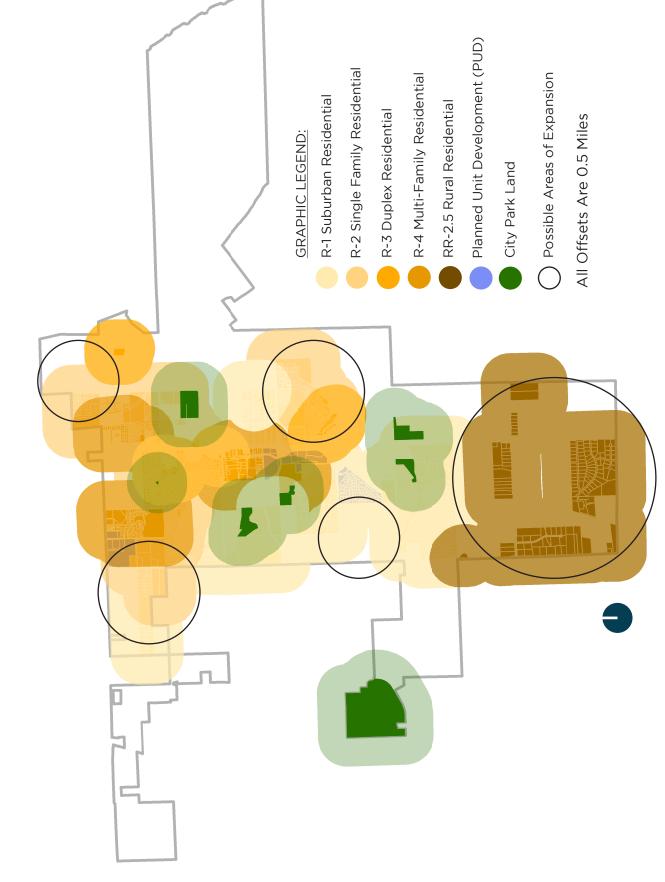


Source: Urban Ground Cover 2018

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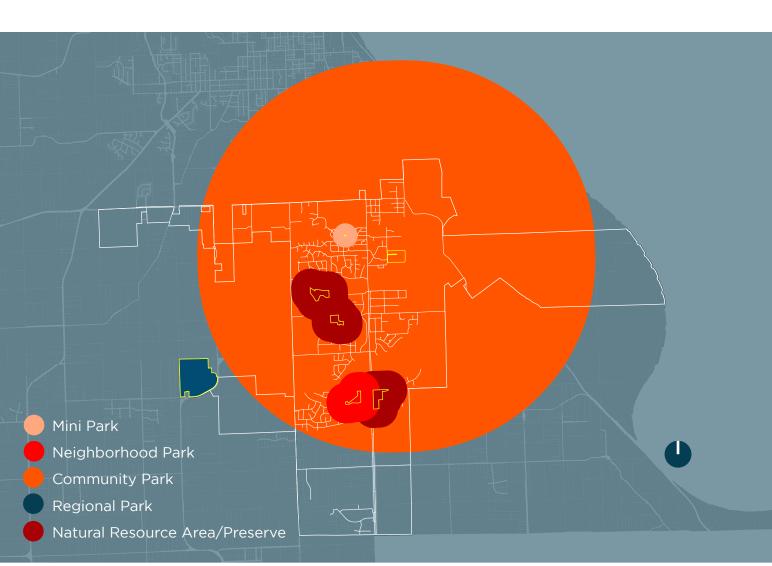


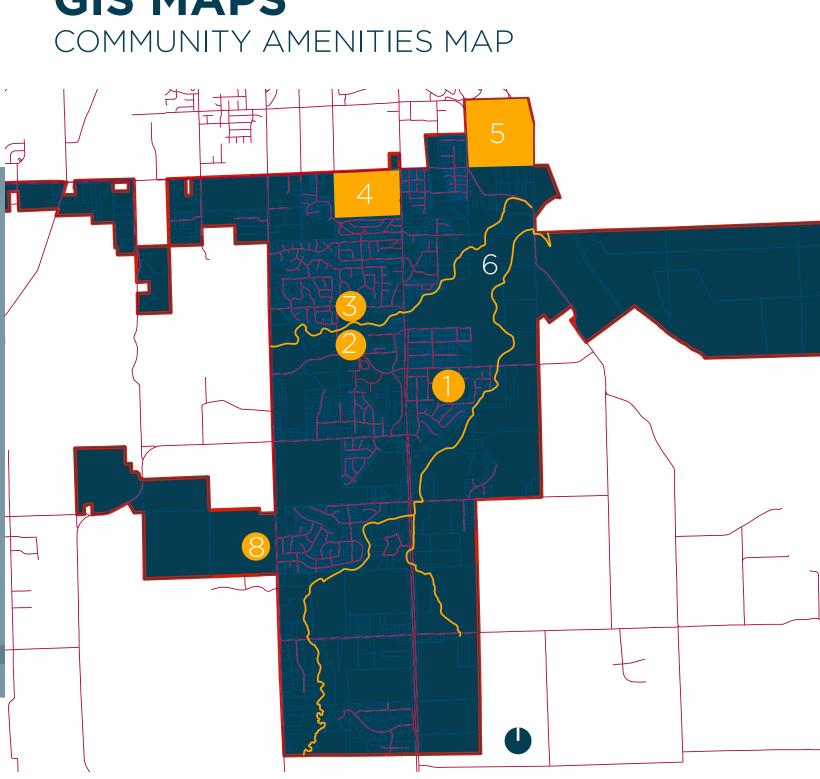
GIS MAPS GAP ANALYSIS MAP



GIS MAPS LEVEL OF SERVICE MAP

GIS MAPS

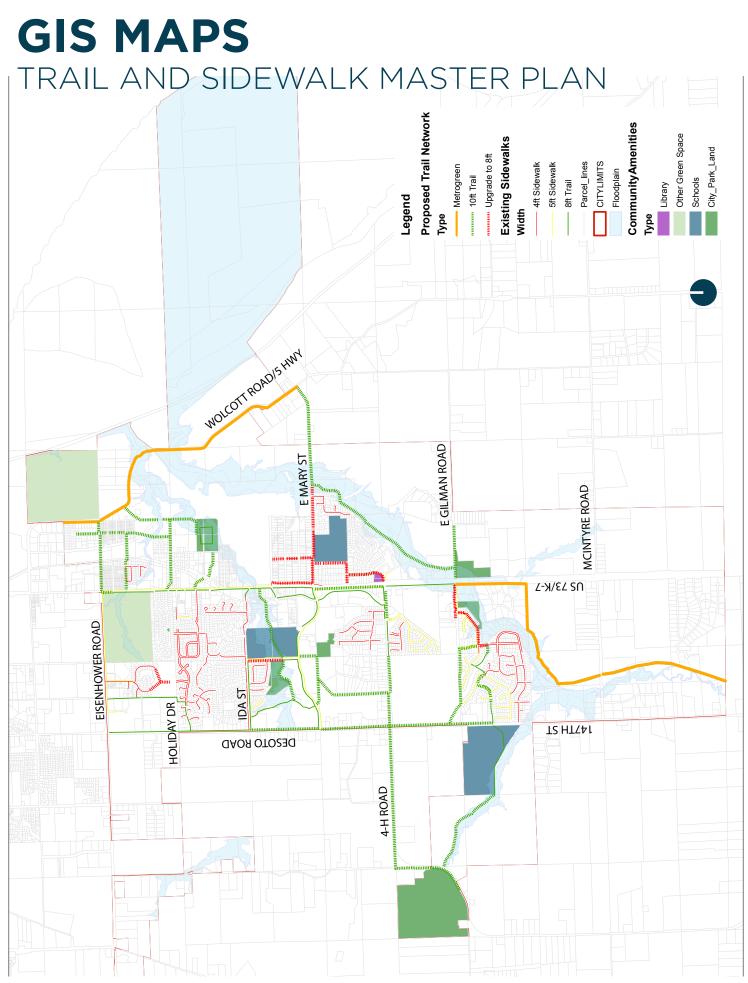




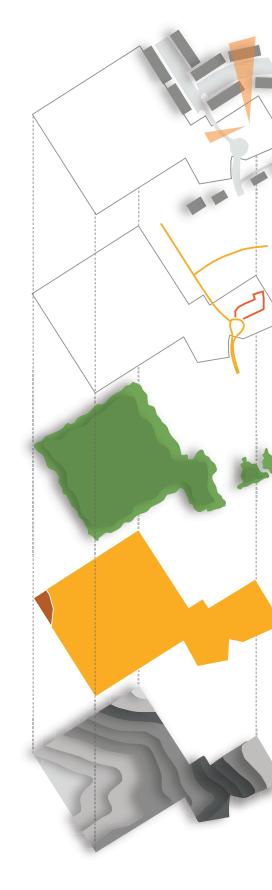
- 1. Lansing Middle School
- 2. Lansing Elementary School
- 3. Lansing Intermediate School
- 4. Leavenworth Country Club and Golf <u>Course</u>

5. Leavenworth National Cemetery and Mt Muncie Cemetery

- 6. Sevenmile Creek
- 7. Ninemile Creek
- 8. Lansing High School



SITE ANALYSIS GRAPHICS BITTERSWEET PARK



Infrastructure and Viewsheds

Pavement	
Structures	
Viewsheds	

Circulation

Pedestrian Vehicular

Vegetative Cover

Tree Cover	
Densest Tree Cover	

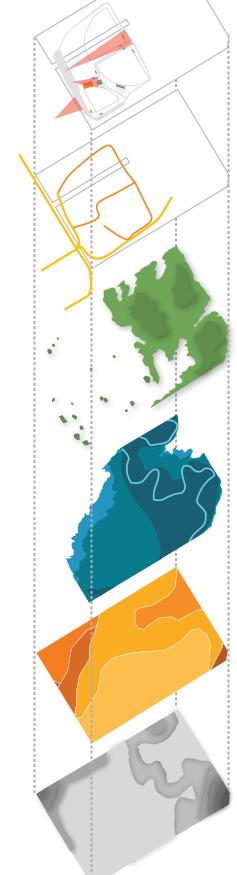
Soils

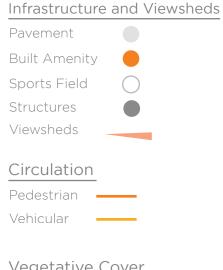
Basehor Complex	
Gosport Complex	

Topographic Slope

0-7% Slope 8-16% Slope 17-30% Slope

SITE ANALYSIS GRAPHICS CITY PARK





Vegetative Cover

Tree Cover Densest Tree Cover

Hydrology

Creek	
Rarely Flooded	
Occasionally Flooded	
Frequently Flooded	

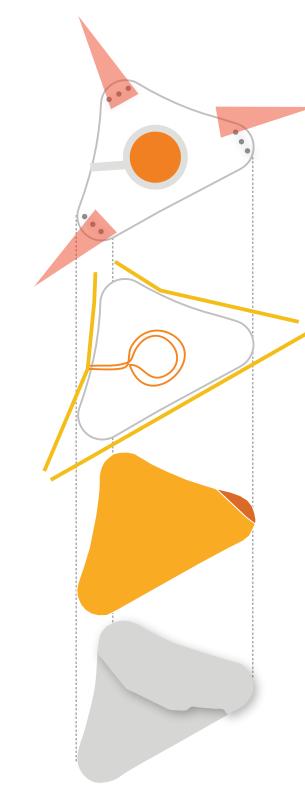
Soils

Judson Silt Loam	
Knox Silt Loam	
Kennebec Silt Loam	
Kennebec Silt Loam	

Topographic Slope

)-1% Slope	
3-8% Slope	
3-12% Slope	

SITE ANALYSIS GRAPHICS HIGHLAND PLAYGROUND



Infrastructure and Viewsheds

- Pavement Built Amenity Structures Viewsheds

Circulation

Pedestrian Vehicular

Soils

Sharpsburg Silty Clay Loam Grundy Silty Clay Loam

Topographic Slope

1-3% Slope

SITE ANALYSIS GRAPHICS KELLY GROVE PARK

Infrastructure and Viewsheds Pavement Viewsheds Circulation Pedestrian -----Vehicular -----Vegetative Cover Tree Cover Densest Tree Cover Hydrology Creek Rarely Flooded Occasionally Flooded Frequently Flooded Soils Ladoga Silt Loam Armster Clay Loam Kennebec Silt Loam Kennebec Silt Loam Gosport-Sogn complex Topographic Slope 0-1% Slope 3-8% Slope 8-12% Slope

SITE ANALYSIS GRAPHICS BERNARD PARK Infrastructure and Viewsheds Circulation Pedestrian Vehicular Vegetative Cover Tree Cover Densest Tree Cover Soils

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Pavement	
Built Amenity	
Sports Field	\bigcirc
Structures	
Viewsheds	

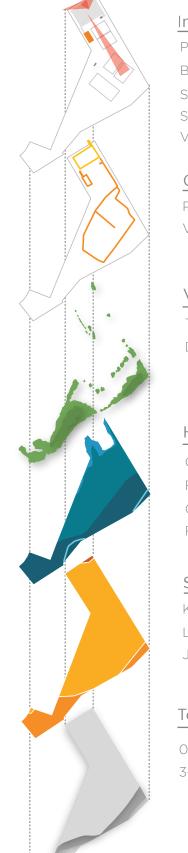


Alluvial Land Ladoga Silt Loam 4%-7% Sharpsburg Sllty Loam 1%-4% Shelby Loam 4%-8% Shelby Loam 8%-12% Shelby-Pawnee Complex 4%-8%

Topographic Slope

1-4% Slope 5-8% Slope 9-11% Slope

SITE ANALYSIS GRAPHICS WILLOW PARK



Infrastructure and Viewsheds
Pavement
Built Amenity
Sports Field
Structures
Viewsheds
Circulation
Pedestrian ——
Vehicular
Vegetative Cover
Tree Cover
Densest Tree Cover
Hydrology Creek Rarely Flooded Occasionally Flooded Frequently Flooded
Soils Kennebec Silt Loam Ladoga Silt Loam Judson Silt Loam
Topographic Slope
0-1% Slope
3-8% Slope

CITIZEN SURVEY

Lansing Parks and Recreation Master Plan Community Survey

Q1 Counting yourself, how many people live in your household?

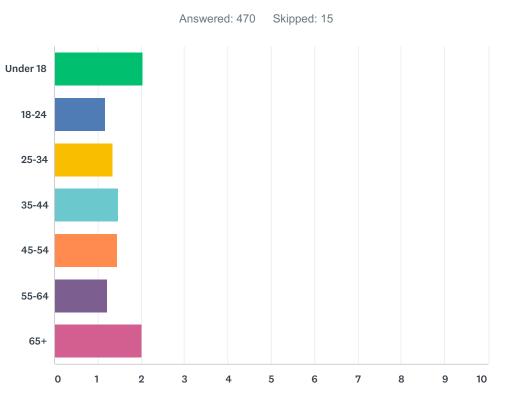


SurveyMonkey

Answered: 470 Skipped: 15

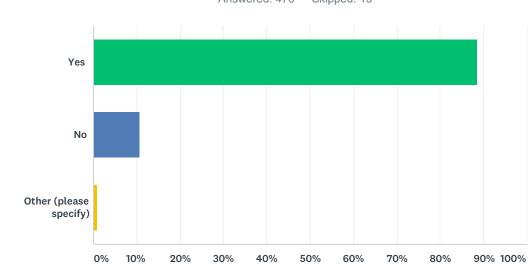
SurveyMonkey

Q2 Counting yourself, how many people in your household are?



ANSWER CHOICES	AVERAGE NUMBER	TOTAL NUMBER	RESPONSES
Under 18	2	694	342
18-24	1	144	124
25-34	1	171	128
35-44	1	306	209
45-54	1	235	163
55-64	1	137	112
65+	2	158	79
Total Respondents: 470			

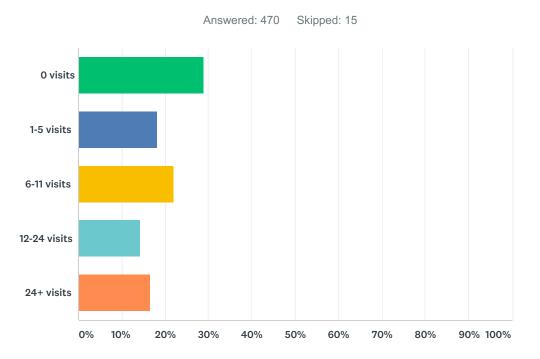
Q3 Have you or members of your household visited any City of Lansing parks within the past year?



ANSWER CHOICES	RESPONSES	
Yes	88.51%	416
No	10.64%	50
Other (please specify)	0.85%	4
TOTAL		470

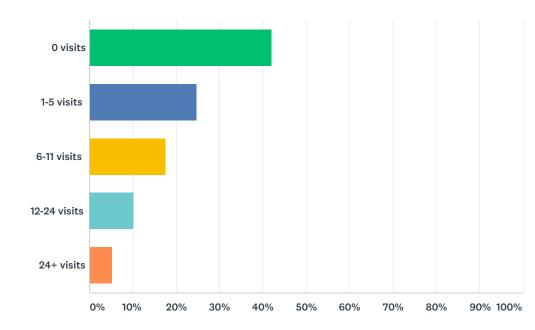
Answered: 470 Skipped: 15

Q4 Please indicate how often you or members of your household have visited the following parks in the past year:Bernard Park, City Park, Highland Playground, Kelly Grove Park, and Willow Park



ANSWER CHOICES	RESPONSES	
0 visits	28.94%	136
1-5 visits	18.30%	86
6-11 visits	21.91%	103
12-24 visits	14.26%	67
24+ visits	16.60%	78
TOTAL		470

Q5 Within the past year, how often have you or members of your household visited...Bernard Park

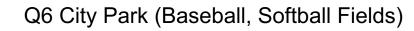


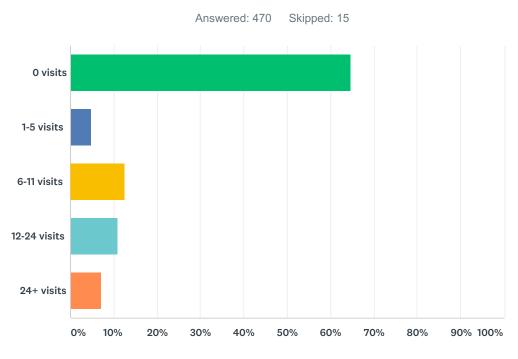
ANSWER CHOICES	RESPONSES	
0 visits	42.13%	198
1-5 visits	24.68%	116
6-11 visits	17.66%	83
12-24 visits	10.21%	48
24+ visits	5.32%	25
TOTAL		470

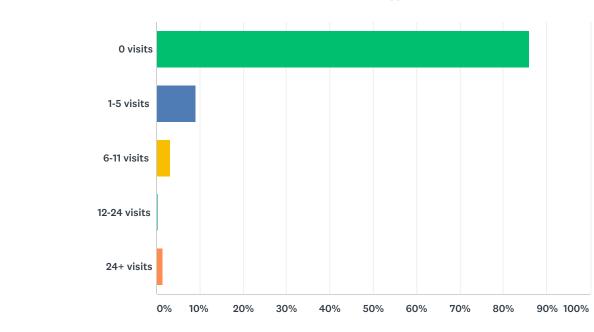


SurveyMonkey

Answered: 470 Skipped: 15



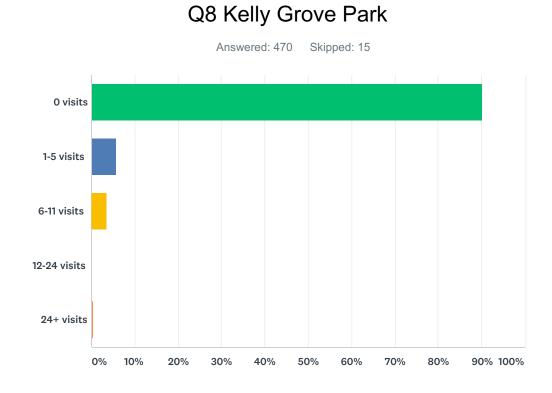


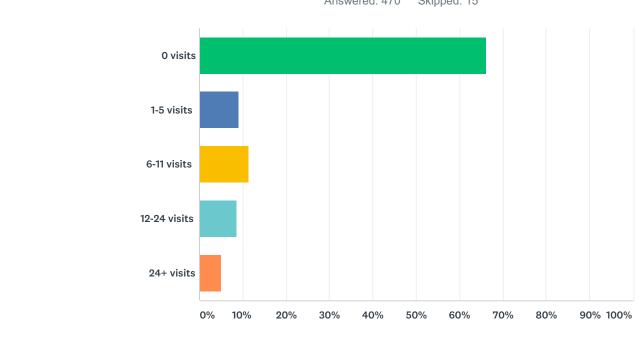


ANSWER CHOICES	RESPONSES	
0 visits	64.68%	304
1-5 visits	4.89%	23
6-11 visits	12.55%	59
12-24 visits	10.85%	51
24+ visits	7.02%	33
TOTAL		470

ANSWER CHOICES	RESPONSES	
0 visits	85.96%	404
1-5 visits	8.94%	42
6-11 visits	3.19%	15
12-24 visits	0.43%	2
24+ visits	1.49%	7
TOTAL		470

Q7 Highland Playground





ANSWER CHOICES	RESPONSES	
0 visits	90.21%	424
1-5 visits	5.74%	27
6-11 visits	3.62%	17
12-24 visits	0.00%	0
24+ visits	0.43%	2
TOTAL		470

ANSWER CHOICES	RESPONSES	
0 visits	66.17%	311
1-5 visits	8.94%	42
6-11 visits	11.28%	53
12-24 visits	8.51%	40
24+ visits	5.11%	24
TOTAL		470

Q9 Willow Park (Soccer Fields)

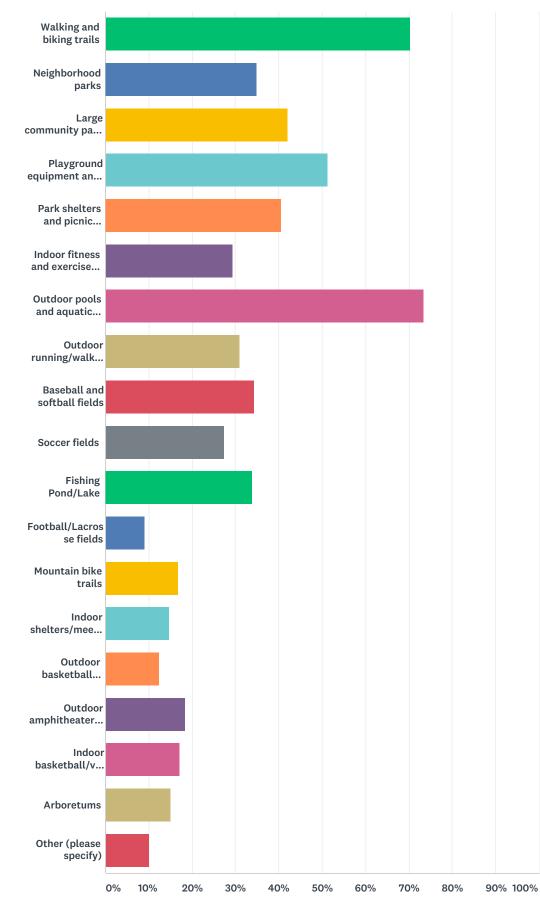
Q10 How do you rate the physical condition of the Lansing Parks that you have visited?

Answered: 470 Skipped: 15 Above average Average Below average 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

ANSWER CHOICES	RESPONSES	
Above average	17.66%	83
Average	65.96%	310
Below average	16.38%	77
TOTAL		470

Q11 What Lansing Parks and Recreation facilities are most important to you and your household? (check all that apply)

Lansing Parks and Recreation Master Plan Community Survey



SurveyMonkey

Lansing Parks and Recreation Master Plan Community Survey

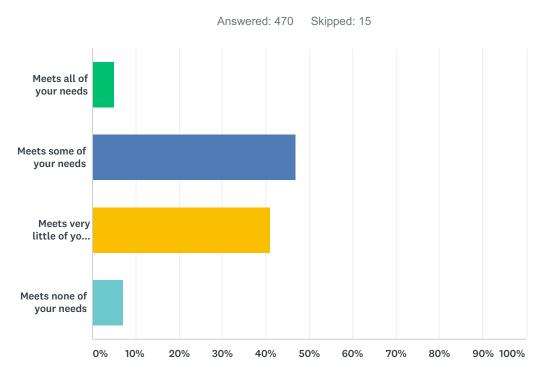
Walking and biking trails	70.21%	
Neighborhood parks	34.89%	
Large community parks nature trails	42.13%	
Playground equipment and play areas	51.28%	
Park shelters and picnic areas	40.64%	
Indoor fitness and exercise facilities	29.36%	
Outdoor pools and aquatic areas	73.40%	
Outdoor running/walking track	31.06%	
Baseball and softball fields	34.26%	
Soccer fields	27.45%	
Fishing Pond/Lake	33.83%	
Football/Lacrosse fields	8.94%	
Mountain bike trails	16.81%	
Indoor shelters/meeting space	14.68%	
Outdoor basketball courts	12.34%	
Outdoor amphitheater/theater	18.51%	
Indoor basketball/volleyball courts	17.23%	
Arboretums	15.11%	
Other (please specify)	10.00%	
Total Respondents: 470		

ANSWER CHOICES

SurveyMonkey

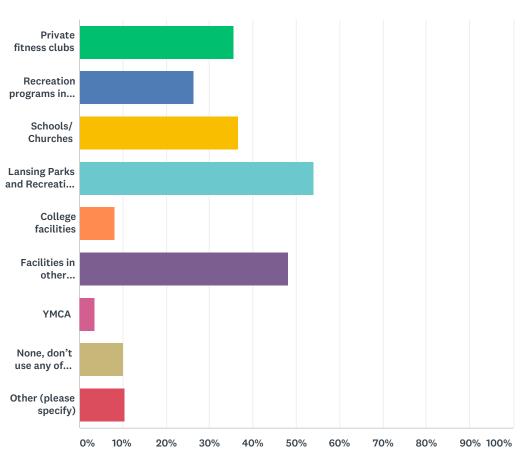
SurveyMonkey

Q12 Which ONE of the following statements best represents how the existing Lansing park, outdoor recreation, sports, fitness, and aquatic facilities meet your needs?



ANSWER CHOICES	RESPONSES	
Meets all of your needs	5.11%	24
Meets some of your needs	46.81%	220
Meets very little of your needs	41.06%	193
Meets none of your needs	7.02%	33
TOTAL		470

Q13 Which park, outdoor recreation, sports, fitness, and aquatic facilities do you and members of your household currently use? (check all that apply)



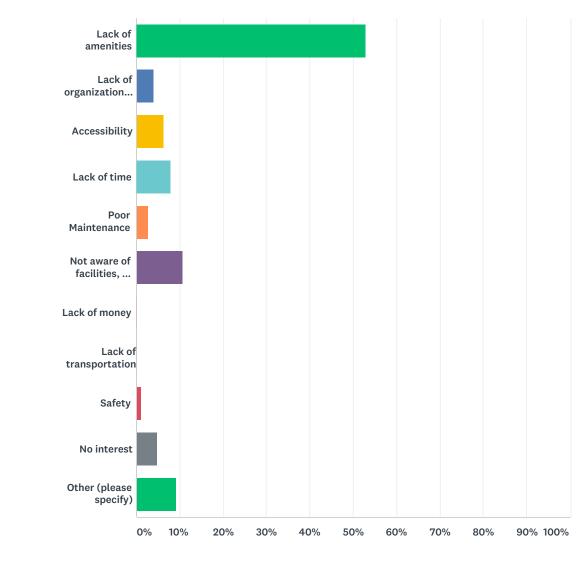
ANSWER CHOICES	RESPONSES	
Private fitness clubs	35.53%	167
Recreation programs in schools	26.38%	124
Schools/ Churches	36.60%	172
Lansing Parks and Recreation facilities	54.04%	254
College facilities	8.09%	38
Facilities in other communities	48.09%	226
YMCA	3.62%	17
None, don't use any of these facilities	10.00%	47
Other (please specify)	10.43%	49
Total Respondents: 470		

SurveyMonkey

Q14 If you selected "Facilities in other communities", which facilities did you use?

Answered: 324 Skipped: 161

Q15 Please indicate, if any, what prevents you or members of you family from using Lansing parks, facilities, or trails?

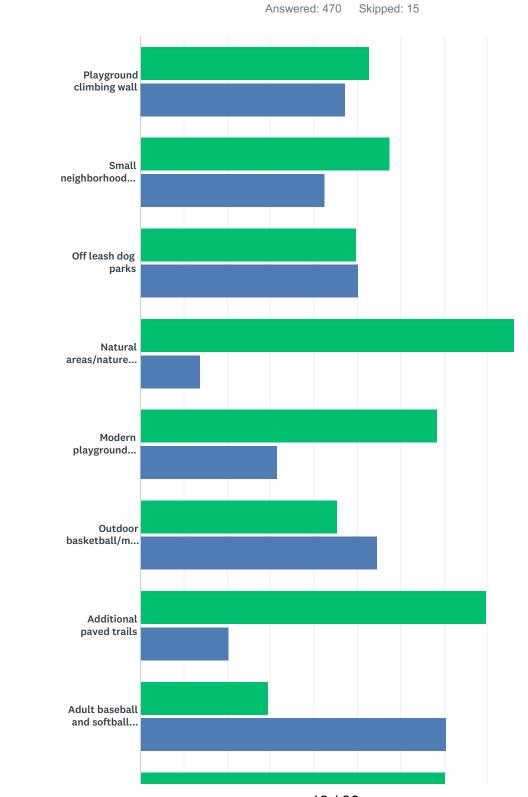


ANSWER CHOICES	RESPONSES	
Lack of amenities	52.93%	235
Lack of organization that participates in your interest	4.05%	18
Accessibility	6.31%	28
Lack of time	7.88%	35
Poor Maintenance	2.70%	12
Not aware of facilities, or their public availability	10.59%	47
Lack of money	0.23%	1
Lack of transportation	0.23%	1
Safety	1.13%	5

Lansing Parks and Recreation Master Plan Community Survey	Sur	rveyMonkey
No interest	4.73%	21
Other (please specify)	9.23%	41

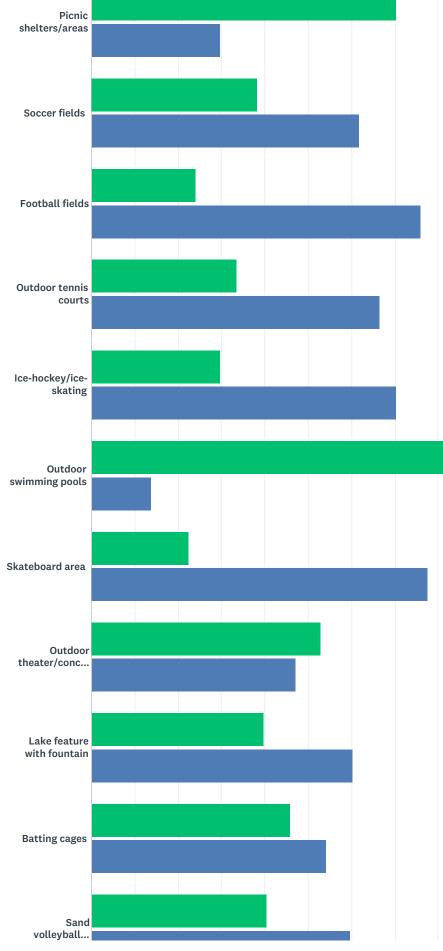
TOTAL

444



Q16 The City of Lansing would like your input regarding improvements to outdoor recreational facilities. Please indicate if YOU or any member of your HOUSEHOLD has a desire for each of the parks and recreational facilities listed below by indicating the YES OR NO next to the recreational facility. Does your household have a desire for:

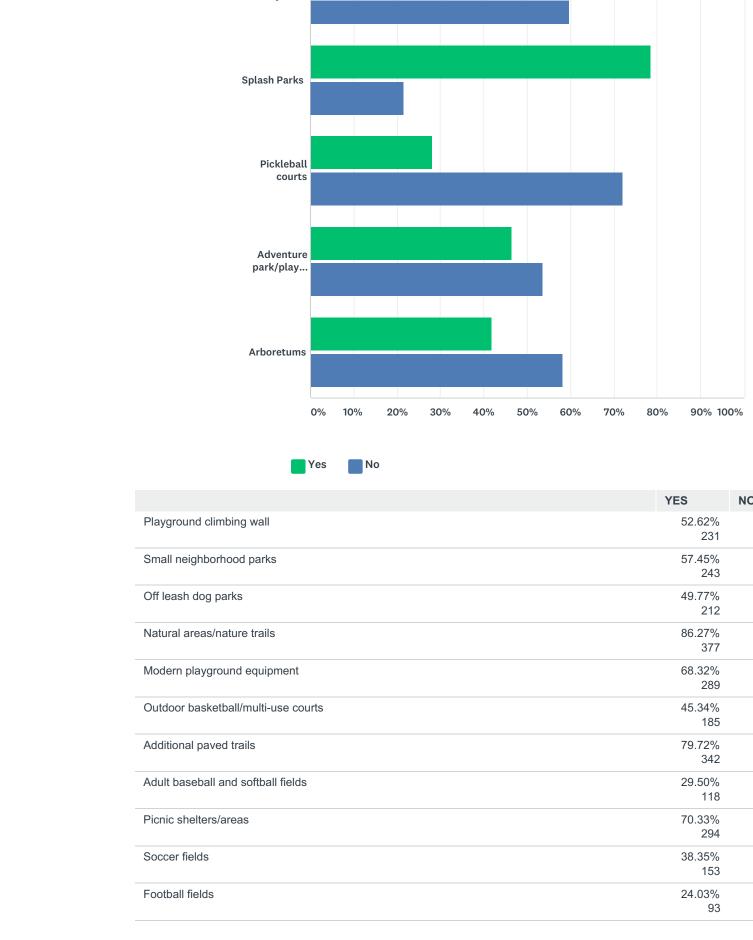
Lansing Parks and Recreation Master Plan Community Survey



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SurveyMonkey

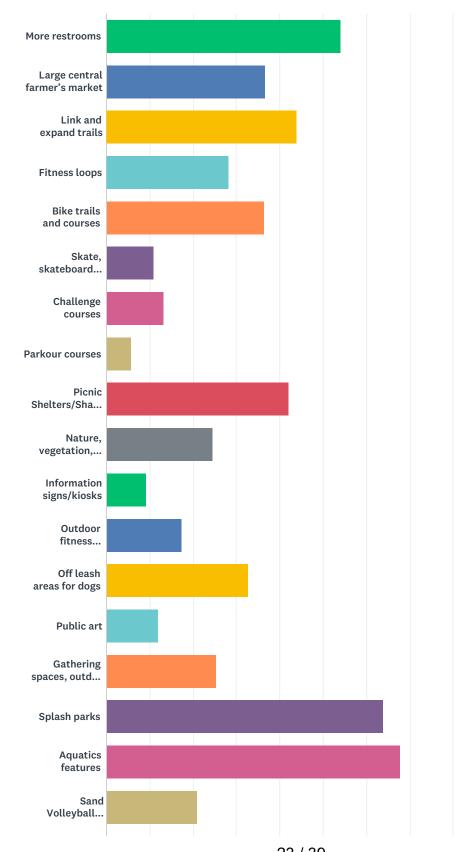
Lansing Parks and Recreation Master Plan Community Survey



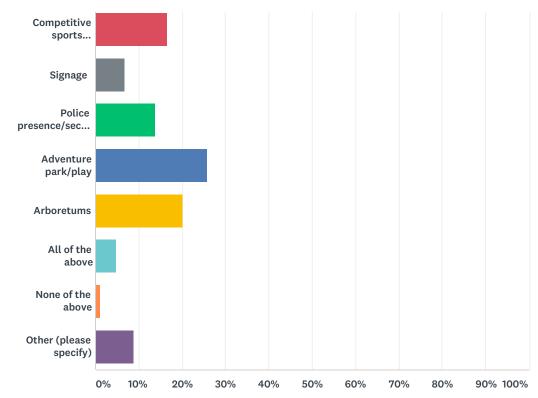
YES	NO	TOTAL
52.62%	47.38%	
231	208	439
57.45%	42.55%	
243	180	423
49.77%	50.23%	
212	214	426
86.27%	13.73%	
377	60	437
68.32%	31.68%	
289	134	423
45.34%	54.66%	
185	223	408
79.72%	20.28%	
342	87	429
29.50%	70.50%	
118	282	400
70.33%	29.67%	
294	124	418
38.35%	61.65%	
153	246	399
24.03%	75.97%	
93	294	387

Lansing Parks and Recreation Master Plan Community Survey		Survey	Monkey
Outdoor tennis courts	33.50%	66.50%	
	131	260	391
Ice-hockey/ice-skating	29.74%	70.26%	
	116	274	390
Outdoor swimming pools	86.28%	13.72%	
	390	62	452
Skateboard area	22.45%	77.55%	
	86	297	383
Outdoor theater/concert area	52.93%	47.07%	
	217	193	410
Lake feature with fountain	39.80%	60.20%	
	156	236	392
Batting cages	45.80%	54.20%	
	191	226	417
Sand volleyball courts	40.40%	59.60%	
	160	236	396
Splash Parks	78.52%	21.48%	
	340	93	433
Pickleball courts	27.99%	72.01%	
	110	283	393
Adventure park/play developed and managed by a third-party concessionaire	46.52%	53.48%	
	187	215	402
Arboretums	41.77%	58.23%	
	165	230	395

Q17 Which of these elements do you think that Lansing needs more of in their parks? (check all that apply)



Lansing Parks and Recreation Master Plan Community Survey



SurveyMonkey	
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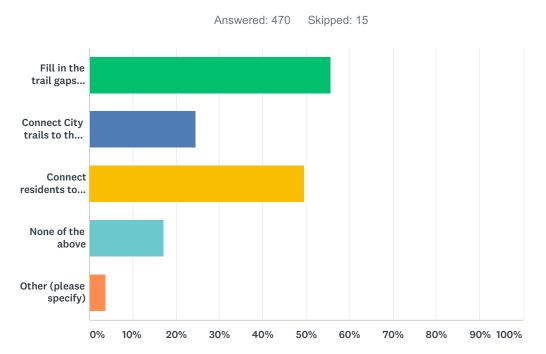
Lansing Parks and Recreation Master Plan Community Survey

Competitive sports facilities	16.60%	78
Signage	6.60%	31
Police presence/security	13.83%	65
Adventure park/play	25.74%	121
Arboretums	20.00%	94
All of the above	4.89%	23
None of the above	1.06%	5
Other (please specify)	8.72%	41
Total Respondents: 470		

ANSWER CHOICES	RESPONSES	
More restrooms	54.04%	254
Large central farmer's market	36.60%	172
Link and expand trails	43.83%	206
Fitness loops	28.30%	133
Bike trails and courses	36.38%	171
Skate, skateboard courses	10.85%	51
Challenge courses	13.19%	62
Parkour courses	5.74%	27
Picnic Shelters/Shade Structures	42.13%	198
Nature, vegetation, trees, gardens	24.47%	115
Information signs/kiosks	9.15%	43
Outdoor fitness equipment	17.45%	82
Off leash areas for dogs	32.55%	153
Public art	11.91%	56
Gathering spaces, outdoor seating	25.32%	119
Splash parks	63.83%	300
Aquatics features	67.87%	319
Sand Volleyball Courts	20.85%	98

SurveyMonkey

Q18 Which recreational trail gaps should be a priority to complete? (check all that apply)



ANSWER CHOICES	RESPONSES	
Fill in the trail gaps between residents and parks and recreation centers	55.74%	262
Connect City trails to the Metrogreen Trail Network	24.47%	115
Connect residents to schools	49.57%	233
None of the above	17.23%	81
Other (please specify)	3.83%	18
Total Respondents: 470		

Create large competitive... Expand park land to prov... Connect open space throug... Conserve park land that ha... Provide better maintenance ... Provide open space for... Create an arboretum None of the above Other (please specify) 10% 20% 30% 0%

ANSWER CHOICES	RESPONS	SES
Create large competitive sports parks to help keep our children playing locally and draw outside tourists	25.32%	119
Expand park land to provide closer parks to all residents	13.19%	62
Connect open space through expanded trails	20.21%	95
Conserve park land that has quality natural resources	8.94%	42
Provide better maintenance and care for park areas	9.36%	44
Provide open space for community agricultural gardens	1.91%	9
Create an arboretum	5.74%	27
None of the above	5.53%	26
Other (please specify)	9.79%	46
TOTAL		470

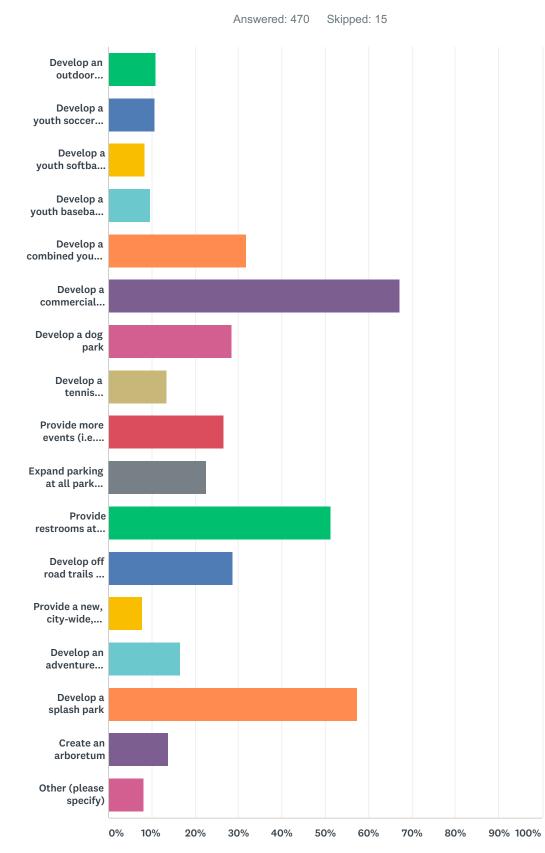
Q19 What should be Lansing's open space priorities?



SurveyMonkey

Lansing Parks and Recreation Master Plan Community Survey

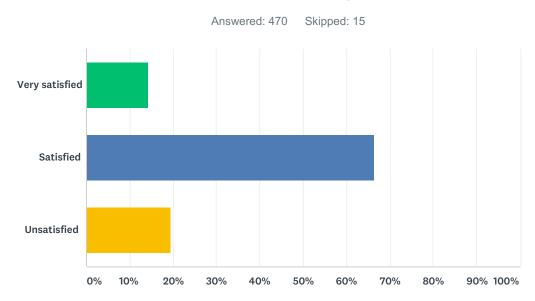
Q20 Please indicate what specific facilities Lansing needs to consider
building and or funding (check all that apply):



Sanshig Farks and Reeroadon Master Fran Community Sarvey	Surveyin	lonney
ANSWER CHOICES	RESPONS	SES
Develop an outdoor performing arts center	10.85%	51
Develop a youth soccer complex	10.64%	50
Develop a youth softball complex	8.30%	39
Develop a youth baseball complex	9.57%	45
Develop a combined youth sports complex (group all the above)	31.70%	149
Develop a commercial style pool, i.e. lazy river, tall slides, waver rider	67.23%	316
Develop a dog park	28.51%	134
Develop a tennis court/pickleball court	13.40%	63
Provide more events (i.e. festivals, celebrations, weekly events, etc.)	26.60%	125
Expand parking at all park facilities	22.55%	106
Provide restrooms at all park facilities	51.28%	241
Develop off road trails to connect with the existing parks system	28.72%	135
Provide a new, city-wide, parks wayfinding system that includes new signage and information kiosks	7.66%	36
Develop an adventure amusement area providing challenge elements for all ages	16.60%	78
Develop a splash park	57.23%	269
Create an arboretum	13.83%	65
Other (please specify)	8.09%	38
Total Respondents: 470		

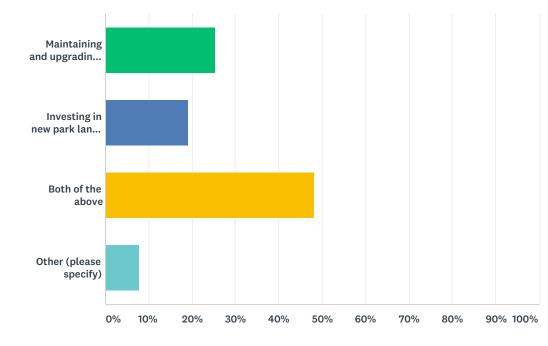
SurveyMonkey

Q21 Overall, how satisfied have you been with the current level of maintenance of Lansing's parks?



ANSWER CHOICES	RESPONSES	
Very satisfied	14.26%	67
Satisfied	66.38%	312
Unsatisfied	19.36%	91
TOTAL		470

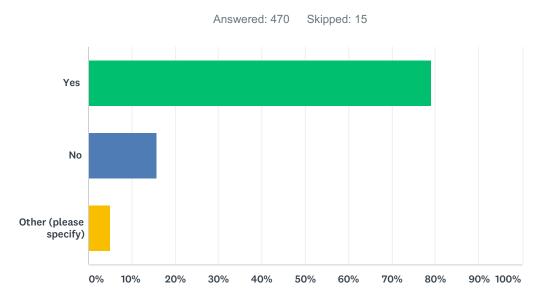
Q22 What should be the highest priority for Lansing?



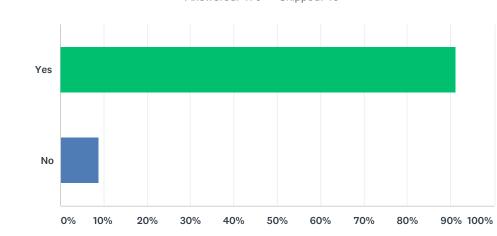
ANSWER CHOICES
Maintaining and upgrading existing parks
Investing in new park land and facilities
Both of the above
Other (please specify)
TOTAL

RESPONSES	
25.32%	119
18.94%	89
48.09%	226
7.66%	36
	470

Q23 Would Lansing benefit from adaptive recreation (includes abled bodied and differently abled) facilities and programs?



ANSWER CHOICES	RESPONSES	
Yes	79.15%	372
No	15.74%	74
Other (please specify)	5.11%	24
TOTAL		470





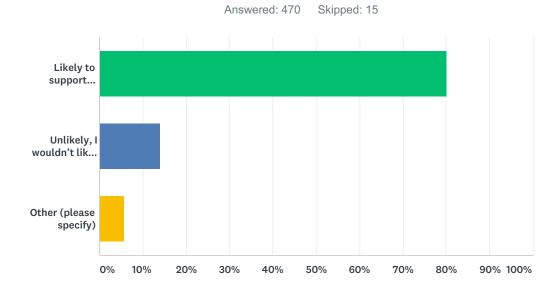


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TOTAL
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Q24 Do you live within the city limits of the City of Lansing?

RESPONSES	
91.28%	429
8.72%	41
	470

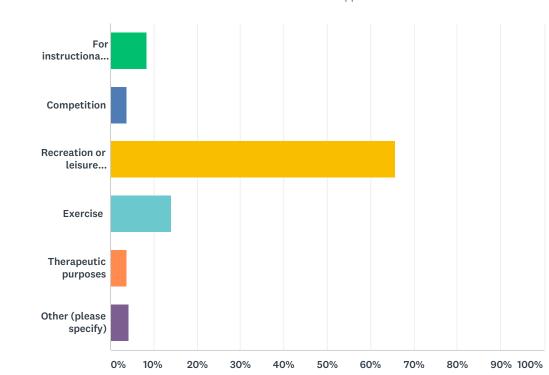
Q25 As we consider improving the parks system and our ability to have a more regional draw to our parks system, how willing are you and members of your household to pay for enhanced attractions like commercial aquatics facilities, large adventure parks?



ANSWER CHOICES	RESPONS	ES
Likely to support enhanced attractions, I appreciate the added revenue and sales tax they may bring	80.21%	377
Unlikely, I wouldn't like any enhanced attractions	14.04%	66
Other (please specify)	5.74%	27
TOTAL		470

Q26 Listed below are some purposes for which you and members of your household would use an outdoor aquatic facility. Please indicate which of these purposes best describe the reasons you or members of your household would use an outdoor aquatic facility.

Answered: 470 Skipped: 15



ANSWER CHOICES

For instructional classes

Competition

Recreation or leisure activities

Exercise

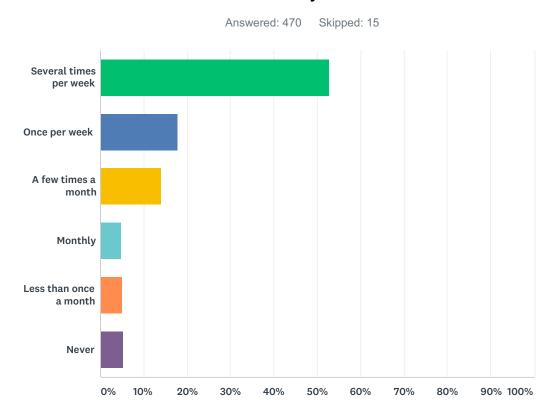
Therapeutic purposes

Other (please specify)

TOTAL

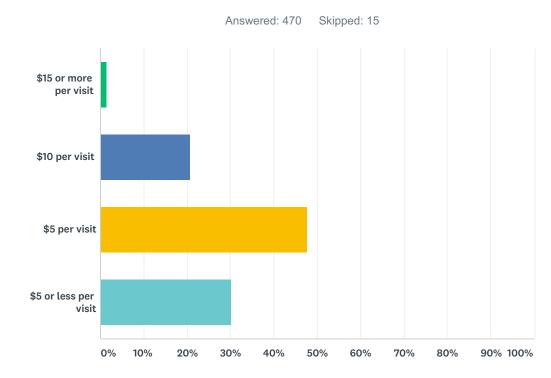
RESPONSES	
8.30%	39
3.83%	18
65.74%	309
14.04%	66
3.83%	18
4.26%	20
	470

Q27 If the City of Lansing builds a new outdoor aquatic facility with the features you prefer, which ONE of the following statements represents how often you or other members of your household would visit the facility?



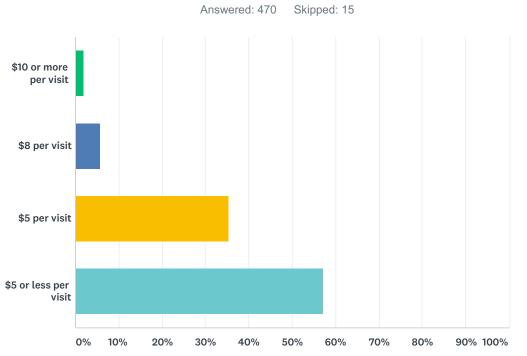
ANSWER CHOICES	RESPONSES	
Several times per week	52.77% 24	8
Once per week	17.87% 8	34
A few times a month	14.04% 6	6
Monthly	4.89% 2	23
Less than once a month	5.11% 2	24
Never	5.32% 2	25
TOTAL	47	0

Q28 If the City of Lansing builds a new outdoor aquatic facility with the features that are most important to your household, please select each option listed below of the MAXIMUM fees you and members of your household would be willing to pay. How much would you be willing to PAY PER VISIT for an ADULT to use the facility?



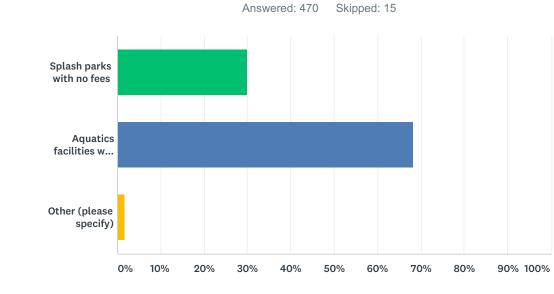
ANSWER CHOICES	RESPONSES	
\$15 or more per visit	1.49%	7
\$10 per visit	20.64%	97
\$5 per visit	47.66%	224
\$5 or less per visit	30.21%	142
TOTAL		470

Q29 How much would you be willing to PAY PER VISIT for a CHILD to use the facility?



	0% 10%	20%	30%	40%	50%	60%	70%	80%	90% 100%	
ANSWER CHOICES						RES	SPONSE	S		
\$10 or more per visit						1.91	1%			9
\$8 per visit						5.74	1%			27
\$5 per visit						35.3	32%			166
\$5 or less per visit						57.0)2%			268
TOTAL										470

Q30 Would you rather see the City of Lansing develop splash parks that would not require fees per visit, or an aquatics facility that would require fees per visit?



ANSWER CHOICES

Splash parks with no fees

- Aquatics facilities with fees
- Other (please specify)

TOTAL

\$5 or less TOTAL

RESPONSES	
30.00%	141
68.30%	321
1.70%	8
	470

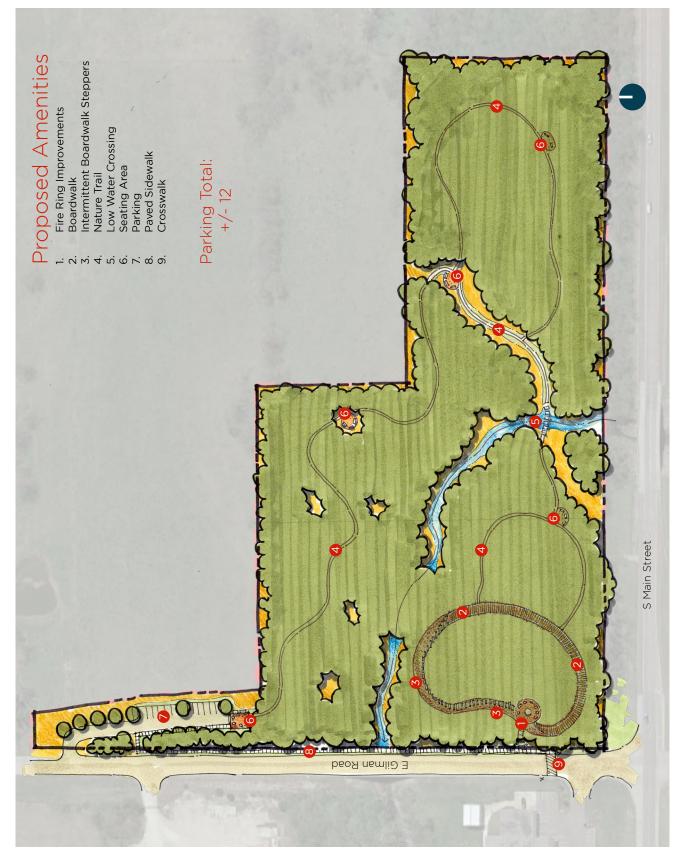
PARK DESIGN CONCEPTS BITTERSWEET PARK



PARK DESIGN CONCEPTS CITY PARK



PARK DESIGN CONCEPTS KELLY GROVE PARK



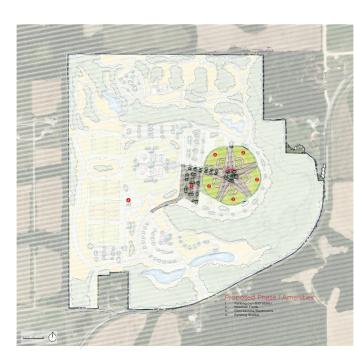
PARK DESIGN CONCEPTS BERNARD PARK

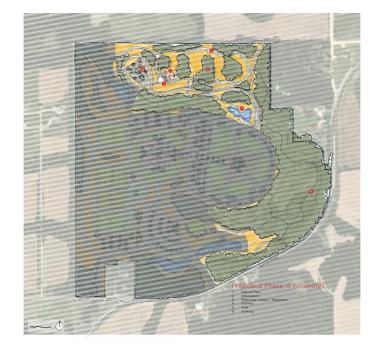


PARK DESIGN CONCEPTS WILLOW PARK



PHASING BERNARD PARK







PHASING CITY PARK





PHASING **BERNARD PARK PHASE 1**

Opinion of Probable Cost | Kenneth Bernard Park Lansing Parks and Recreation Master Plan January - 2020

Landscape Architecture - Site Improvements							
Pavements / Surfacing / Ramps	27000		4 6 00	A 4 62 000	\$ 162,000		
Concrete trails - 6" thick	27000	SF	\$ 6.00	\$ 162,000			
Park Wide Site Furnishing					\$ 21,750		
Picnic Table	6	EA	\$ 1,000.00	\$ 6,000	ş 21,750		
Drinking Fountain and Bottle Filler	1	EA	\$ 3,250.00	\$ 3,250			
Trash / Recycling Receptacle	5	EA	\$ 1,000.00	\$ 5,000			
Flag Pole	1	EA	\$ 7,500.00	\$ 7,500			
			+ . /	÷ . /000			
Baseball Fields					\$ 1,693,335		
Baseball Fields (5)	1	LS	\$ 1,550,835.00	\$ 1,550,835			
Field Irrigation	1	EA	\$ 140,000.00	\$ 140,000			
Dugout Benches	10	EA	\$ 250.00	\$ 2,500			
Soccer Fields							\$ 654,804
Soccer Fields (2)	1	LS	\$ 478,804.00			\$ 478,804	
Field Irrigation	1	EA	\$ 80,000.00			\$ 80,000	
6" Water Service	1800	LF	\$ 50.00			\$ 90,000	
Fescue Turf - Seed	20000	SF	\$ 0.30			\$ 6,000	
Connex Fields							¢ 574.004
Soccer Fields Soccer Fields (2)	1	LS	\$ 478,804.00			\$ 478,804	\$ 574,804
6" Water Service	1800	LS	\$ 478,804.00			\$ 90,000	
Fescue Turf - Seed	20000	SF	\$ 0.30			\$ 6,000	
Tescue Turi - Seed	20000	51	2 0.30			J 0,000	
Architecture - Site Improvements							
Shelters + Buildings					\$ 300,000		
Concession w/ Restroom & Storage	1	EA	\$ 300,000.00	\$ 300,000	+ ,		
			1 /				
andscaping and Irrigation							
Plants and Seed					\$ 41,700		
Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	12	EA	\$ 475.00	\$ 5,700			
Fescue Turf - Seed	120000	SF	\$ 0.30	\$ 36,000			
Civil Improvements							
Utilities 6" Water Service	2700		\$ 50.00	\$ 135,000	\$ 175,000		
		LF					
Backflow preventer (double check) Leechfield	1	EA EA	\$ 10,000.00	\$ 10,000 \$ 30,000			
Leechneid	1	EA	\$ 30,000.00	\$ 30,000			
Grading					\$ 20,000		
Allowance for Misc. General Grading	1	ALL	\$ 20,000.00	\$ 20,000	Ş 20,000		
Allowance for Mise. General Grading	-		\$ 20,000.00	<i>\$</i> 20,000			
Parking Area					\$ 175,000		
Granular Subbase 4" (2 tons per 100 sf.)	1000	TONS	\$ 25.00	\$ 25,000	· · · · · ·		
Asphalt parking & roads (chip & seal)	50000	SF	\$ 3.00	\$ 150,000			
Electrical Improvements							
Site Lighting					\$ 300,000		
Baseball Field Lighting	1	EA	\$ 300,000.00	\$ 300,000			
Electrical Service			4 50 00	A 105 000	\$ 105,000		
Provide Conduit and Power to Shelters/Fields	2100	LF	\$ 50.00	\$ 105,000			
	Tote	al Imp	provements	\$ 2,993,785			\$ 1,229,608
General Conditions	10%			\$299,378.50			\$122,960.80
Overhead	5%			\$149,689.25			\$61,480.40
Profit	5%			\$149,689.25			\$61,480.40
Inflation	3%			\$89,813.55			\$36,888.24
Design Contingency	6%			\$179,627.10			\$73,776.48
		Dr	oject Budget:	\$3,861,982.65		Soccer	\$1,586,194.32
			oject buuget.	<i>\$3,001,502.05</i>			\$1,500,154.S



PHASING BERNARD PARK PHASE 2

Opinion of Probable Cost |Kenneth Bernard Park

Lansing Parks and Recreation Master Plan

January - 2020

andscape Architecture - Site Improvements Pavements / Surfacing / Ramps					\$ 1,020,500
Concrete trails - 6" thick	157,000	SF	\$ 6.50	\$ 1,020,500	\$ 1,020,500
Decorative Pavement	0	SF	\$ 8.00	-	
Park Wide Site Furnishing					\$ 114,950
Park Bench	28	EA	\$ 2,000.00	\$ 56,000	+ == .,
Picnic Table	17	EA	\$ 1,000.00	\$ 17,000	
Drinking Fountain and Bottle Filler Bike Racks	3	EA EA	\$ 3,250.00 \$ 1,500.00	\$ 9,750 \$ 13,500	
Trash / Recycling Receptacle	11	EA	\$ 1,700.00	\$ 18,700	
Flag Pole	1	EA	\$ 7,500.00	\$ 7,500	
Aquatics/Spray Park					\$ 610,000
Fishing Docks	2	EA	\$ 30,000.00	\$ 60,000	
Spray Ground Materials	1	LS LS	\$ 350,000.00 \$ 200,000.00	\$ 350,000 \$ 200,000	
Spray Ground Installation	1	1.5	\$ 200,000.00	\$ 200,000	
Play Equipment					\$ 1,360,000
Nature Play Synthetic Turf	0 38000	LS SF	\$ 250,000.00 \$ 20.00	- \$ 760,000	
Large Play	1	LS	\$ 600,000.00	\$ 600,000	
Sports Fields Baseball Fields (5)	1	LS	\$ 1,550,835.00	\$ 1,550,835	\$ 1,110,804
Field Irrigation	1	EA	\$ 140,000.00	\$ 140,000	
Dugout Benches	10	EA	\$ 250.00	\$ 2,500	
Soccer Fields (2)	2	EA	\$ 239,402.00	\$ 478,804	\$ 654,804
Soccer Field Irrigation 6" Water Service	1 1800	EA LF	\$ 80,000.00 \$ 50.00	\$ 80,000 \$ 90,000	
Fescue Turf - Seed	20000	SF	\$ 0.30	\$ 6,000	
Cornhole	8	EA	\$ 2,000.00	\$ 16,000	
Disc Golf Pickleball	1 6	EA EA	\$ 200,000.00 \$ 40,000.00	\$ 200,000 \$ 240,000	
			+,	÷ = .9,000	
Signage & Wayfinding			6 15 000 CC	6 4F 000	\$ 45,000
Primary Secondary	1 3	EA EA	\$ 15,000.00 \$ 10,000.00	\$ 15,000 \$ 30,000	
			\$ 10,000.00	\$ 50,000	
rchitecture - Site Improvements					
Shelters + Buildings Vehicular Bridge	0	EA	\$ 500,000.00	-	\$ 1,930,000
Maintenance Building	1	EA	\$ 120,000.00	\$ 120,000	
Restroom	1	EA	\$ 120,000.00	\$ 120,000	
Pedestrian Bridge Concession w/ Restroom	1	EA	\$ 120,000.00 \$ 220,000.00	\$ 120,000 \$ 300,000	
Ampitheater	1	EA	\$ 500,000.00	\$ 500,000	
Medium Shelter w/ Restroom	1	EA	\$ 250,000.00	\$ 250,000	
Large Shelter w/ Restroom	1	EA	\$ 290,000.00	\$ 290,000	
Small Shelter Low Water Crossing	4	EA EA	\$ 120,000.00 \$ 50,000.00	\$ 480,000 \$ 50,000	
			+	+ ==,===	
andscaping and Irrigation Plants and Seed					\$ 516,150
Deciduous Trees - B&B 2" Cal - Swamp White Oak	110	EA	\$ 500.00	\$ 55,000	\$ 510,150
Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	150	EA	\$ 475.00	\$ 71,250	
Ornamental Trees - B&B 1.5" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper	100 10	EA EA	\$ 350.00 \$ 60.00	\$ 35,000 \$ 600	
Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush	40	EA	\$ 70.00	\$ 2,800	
Annuals/Perennials - 1 Gal - Russian Sage	60	EA	\$ 25.00	\$ 1,500	
Grasses - 1 Gal	40	EA	\$ 25.00	\$ 1,000	
Fescue Turf - Seed Native Blend - Seed Mix	330000 500000	SF SF	\$ 0.30 \$ 0.50	\$ 99,000 \$ 250,000	
ivil Improvements					ć F10.000
Utilities 6" Water Service	1000	LF	\$ 50.00	\$ 50,000	\$ 519,900
Backflow preventer (double check)	5	EA	\$ 10,000.00	\$ 50,000	
6" Sanitary Service Line with main connection	6460	LF	\$ 65.00	\$ 419,900	
Grading					\$ 350,000
Detention Areas	1	LS	\$ 250,000.00	\$ 250,000	- 550,000
Allowance for Misc. General Grading	1	ALL	\$ 100,000.00	\$ 100,000	
Parking Area					\$ 1,349,100
New Curb	0	LF	\$ 20.00	-	,,,,,+3,100
Granular Subbase 4" (2 tons per 100 sf.)	5740	TONS	\$ 25.00	\$ 143,500	
Asphalt parking spaces & roads 4" White Thermoplastic	287000 14400	SF LF	\$ 4.00 \$ 3.50	\$ 1,148,000 \$ 50,400	
4" white Thermoplastic Handicapped Pavement Markings symbol	40	EA	\$ 50.00	\$ 50,400 \$ 2,000	
ADA tactile warning strip (21' and 3')	26	EA	\$ 200.00	\$ 5,200	
lectrical Improvements					¢ 1 1FF 00
Site Lighting					\$ 1,155,000
Soccer Field Lighting	4	EA	\$ 135,000.00	\$ 540,000	
Baseball Field Lighting	1	EA	\$ 300,000.00	\$ 300,000	
T-ball Field Lighting Lansing Daze Lighting Allowance	2	EA LS	\$ 60,000.00 \$ 500,000.00	\$ 120,000 \$ 500,000	
			÷ 555,000.00	÷ 555,000	
Electrical Service			6 50.05	6 445 000	
Provide Conduit and Power to Shelters/Fields	2300	LF	\$ 50.00	\$ 115,000	
	Tot	al Im	provements	\$ 10,736,208	\$ 10,736,20
	101	ii		÷ 10,700,200	,, 50,20
General Conditions	10%			\$1,073,620.80	
Overhead Profit	5%			\$536,810.40	
	5%			\$536,810.40 \$322,086.24	
	3%				
Inflation Design Contingency	3% 6%			\$644,172.48	

The soccer number doubles if Phase I recommendations were not met.

PHASING BERNARD PARK PHASE 3

Opinion of Probable Cost | Kenneth Bernard Park Lansing Parks and Recreation Master Plan January - 2020

r avemen	tecture - Site Improvements			
	ts / Surfacing / Ramps Decomposed Granite, 6' wide	88000	SF	
	Decorative Pavement	0	SF	
Dark Wide	e Site Furnishing		_	
	Park Bench	4	EA	\$
	Picnic Table	9	EA	\$
	Drinking Fountain and Bottle Filler Bike Racks	1	EA EA	\$ \$
	Trash / Recycling Receptacle	7	EA	Ş
	Flag Pole	1	EA	\$
Aquatics/	Spray Park		-	
	Fishing Docks	2	EA	\$
	Spray Ground Materials Spray Ground Installation	1	LS LS	\$3 \$2
		1	1.5	ړ د
Play Equi				
	Nature Play Synthetic Turf	1 38000	LS SF	\$2
	Large Play	1	LS	\$6
Sports Fie	elds Baseball Fields (5)	1	LS	\$1,
	Field Irrigation	1	EA	\$1
	Dugout Benches	10	EA	
	Soccer Fields (2) Soccer Field Irrigation	2	EA EA	\$4 \$
	6" Water Service	1800	LF	
	Fescue Turf - Seed	40000	SF	
	Cornhole Disc Golf	8	EA	\$ \$ 2
	Pickleball	6	EA	<u>ې د</u>
	k Wayfinding Primary	1	EA	\$
	Secondary	3	EA	\$
itocture C'				
	te Improvements • Buildings		-	
	Vehicular Bridge	1	EA	\$5
	Maintenance Building	1	EA	\$1
	Restroom Pedestrian Bridge	0	EA	\$ 1 \$ 1
	Concession w/ Restroom	1	EA	\$2
	Ampitheater Medium Shelter w/ Restroom	1	EA	\$ 5 \$ 2
	Large Shelter w/ Restroom	1	EA	\$ 2 \$ 2 \$ 1
dscaping and Plants an	Small Shelter Irrigation d Seed	4	EA	\$ 1
dscaping and Plants an	Small Shelter I Irrigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm Ornamental Trees - B&B 1.5" Cal - Eastern Redbud Shrubs - S Gal - Fulterby Flow Lavender Butterfly Bush	4 40 60 20 10 40	EA EA EA EA EA EA	\$
scaping and Plants an	Small Shelter J sredgation J seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm Ornamental Trees - B&B 1.5" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage	40 60 20 10 40 60	EA EA EA EA EA EA	
Iscaping and Plants an	Small Shelter I Irrigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm Ornamental Trees - B&B 1.5" Cal - Eastern Redbud Shrubs - S Gal - Juniper Shrubs - 3 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal	40 60 20 10 40 60 40	EA EA EA EA EA EA EA	
dscaping and Plants an	Small Shelter J sredgation J seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm Ornamental Trees - B&B 1.5" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage	40 60 20 10 40 60	EA EA EA EA EA EA	
Iscaping and Plants an	Small Shelter Irrigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Fluterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix	40 60 20 10 40 60 40 294000	EA EA EA EA EA EA EA SF	
Iscaping and Plants an	Small Shelter J Irrigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 1.5" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Juniper Shrubs - 3 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush Annuals/Perennalis - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts	40 60 20 10 40 60 40 294000	EA EA EA EA EA EA EA SF	
Iscaping and Plants an Plants an Improveme Utilities	Small Shelter J sreigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm Ornamental Trees - B&B 1.5" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Fluterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service	40 60 20 10 40 60 294000 350000 5460	EA EA EA EA EA EA EA SF SF	
dscaping and Plants an Plants an Utilities	Small Shelter d Seed d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm Ornamental Trees - B&B 1.5" Cal - Eastern Redbud Shrubs - 5 Cal - Juniper Shrubs - 3 Cal - Juniper Shrubs - 3 Cal - Juniper Shrubs - 3 Cal - Flutterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Cal - Russian Sage Grasses - 1 Cal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service Backflow preventer (double check)	40 60 20 10 40 60 40 234000 35000 35000 35000 1	EA EA EA EA EA EA EA SF SF LF EA	\$1
dscaping and Plants an Plants an Utilities Utilities	Small Shelter J sreigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm Ornamental Trees - B&B 1.5" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Fluterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service	40 60 20 10 40 60 294000 350000 5460	EA EA EA EA EA EA EA SF SF	
dscaping and Plants an Plants an Plants an Utilities Utilities Grading	Small Shelter I trigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Linterby Flow Lavender Butterfly Bush Annual/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service Backflow preventer (double check) 6" Sanitary Service Line with main connection	40 60 20 10 40 60 294000 350000 350000 5460 1 6460	EA EA EA EA EA EA SF SF LF EA LF	\$
Iscaping and Plants an Improveme Utilities Grading	Small Shelter I trigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm Ornamental Trees - B&B 2" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Fluterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service Backflow preventer (double check) 6" Sanitary Service Line with main connection Detention Areas	40 60 20 10 40 60 40 234000 35000 35000 35000 1	EA EA EA EA EA EA EA SF SF LF EA	
dscaping and Plants an Plants an Improveme Utilities Grading	Small Shelter Jerigation J Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Juniper Shrubs - 3 Gal - Futterby Flow Lavender Butterfly Bush Annualy/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service Backflow preventer (double check) 6" Santiary Service Line with main connection Detention Areas Allowance for Misc. General Grading	40 60 20 10 40 60 294000 350000 5460 1 6460	EA EA EA EA EA EA EA EA EA EA LF EA LF LS	\$
dscaping and Plants an Plants an Unproveme Utilities Grading Parking A	Small Shelter J Irrigation J Seed Seciduous Trees - 8&8 2" Cal - Swamp White Oak Deciduous Trees - 8&8 2" Cal - Swamp White Oak Deciduous Trees - 8&8 2" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service Backflow preventer (double check) 6" Sanitary Service Line with main connection Detention Areas Allowance for Misc. General Grading rea	40 60 20 10 40 294000 35000 5460 1 6460 1 1 1 1	EA EA EA EA EA EA SF SF LF EA LF LS ALL	\$
Inproveme Utilities Grading Parking A	Small Shelter Jerigation J Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Juniper Shrubs - 3 Gal - Futterby Flow Lavender Butterfly Bush Annualy/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service Backflow preventer (double check) 6" Santiary Service Line with main connection Detention Areas Allowance for Misc. General Grading	40 60 20 10 40 60 294000 350000 5460 1 6460	EA EA EA EA EA EA EA EA EA EA LF EA LF LS	\$
scaping and Plants an Plants an Improveme Utilities Grading Parking A	Small Shelter Irrigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Futterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix ts f* Water Service Backflow preventer (double check) 6* Sanitary Service Line with main connection 6* Sanitary Service Line with main connection Detention Areas Allowance for Misc. General Grading rea New Curb Granular Subbase 4* (2 tons per 100 sf.) Asphalt parking spaces & roads	40 60 20 10 40 60 294000 350000 350000 5460 1 1 1 1 1 0 0 2460 2260 223000	EA EA EA EA EA EA EA EA EA LF LF LS ALL LF TONS SF	\$
scaping and Plants an Plants an Improveme Utilities Grading Parking A	Small Shelter Jerigation J Seed Jeciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm Ornamental Trees - B&B 2" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service Backflow preventer (double check) 6" Sanitary Service Line with main connection Detention Areas Allowance for Misc. General Grading rea New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads White Thermoplastic	40 60 20 10 40 60 294000 350000 350000 5460 1 6460 1 1 1 1 22460 123000 123000 124000	EA EA EA EA EA EA EA EA EA LF LF LS ALL LF TONS SF LF	\$
Improveme Utilities Grading Parking A	Small Shelter Irrigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Futterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix ts f' Water Service Backflow preventer (double check) 6" Sanitary Service Line with main connection f' Sanitary Service Line with main connection Detention Areas Allowance for Misc. General Grading rea New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads	40 60 20 10 40 60 294000 350000 350000 5460 1 1 1 1 1 0 0 2460 2260 223000	EA EA EA EA EA EA EA EA EA LF LF LS ALL LF TONS SF	\$
dscaping and Plants an Plants an Unproveme Utilities Grading Parking A	Small Shelter I trigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Emerald Sunshine EIm Ornamental Trees - B&B 1.5" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service Backflow preventer (double check) 6" Sanitary Service Line with main connection Detention Areas Allowance for Misc. General Grading rea New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces areads 4" White Thermoglastic Handicapped Pavement Markings symbol ADA tactile warning strip (21' and 3)	40 60 20 10 40 234000 35000 35000 1 5460 1 1 6460 1 1 1 1 0 2460 123000 123000 40	EA EA EA EA EA EA EA EA EA EA EA LF EA LF TONS SF LF EA	\$
dscaping and Plants an Plants an I Improveme Utilities Grading Parking A ctrical Improv	Small Shelter Irrigation d Seed Jeciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Savamp White Oak Deciduous Trees - B&B 2" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 3 Gal - Futterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix f Water Service Sourt - Seed Mix f Water Service Sourt - Seed Mix f Water Service Detention Areas Allowance for Misc. General Grading rea New Curb Granular Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4" White Thermoplastic Handicapped Pavement Markings symbol ApA tactle warning strip (21' and 3) rements	40 60 20 10 40 234000 35000 35000 1 5460 1 1 6460 1 1 1 1 0 2460 123000 123000 40	EA EA EA EA EA EA EA EA EA EA EA LF EA LF TONS SF LF EA	\$
dscaping and Plants an Plants an Umproveme Utilities Grading Parking A Parking A trical Improv Site Light	Small Shelter Irrigation d Seed Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Swamp White Oak Deciduous Trees - B&B 2" Cal - Eavern Redbud Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Luniper Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix ts f* Water Service Backflow preventer (double check) 6* Sanitary Service Line with main connection f* Sanitary Service Line with main connection erea New Curb Granual - Subbase 4" (2 tons per 100 sf.) Asphalt parking spaces & roads 4* White Thermoplastic Handicapped Pawement Markings symbol ADA tactile warning strip (21' and 3') rements Ing Soccer Field Lighting	40 60 20 10 40 234000 350000 350000 350000 350000 10 6460 11 1 1 1 1 1 0 2460 123000 14400 26 2450 123000 14400 0 2450 2450 2450 2450 2450 2450 245	EA EA EA EA EA EA SF SF SF LF EA LF LF EA LS ALL EA EA	\$ 2 5 1
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dscaping and Plants an Plants an il Improveme Utilities Grading Parking A ctrical Improv Site Light Electrical	Small Shelter J Seed J Seed J Seed Deciduous Trees - 8&8 2" Cal - Swamp White Oak Deciduous Trees - 8&8 32" Cal - Emerald Sunshine Elm Ornamental Trees - 8&8 32" Cal - Eastern Redbud Shrubs - 5 Gal - Juniper Shrubs - 5 Gal - Fulterby Flow Lavender Butterfly Bush Annuals/Perennials - 1 Gal - Russian Sage Grasses - 1 Gal Fescue Turf - Seed Native Blend - Seed Mix nts 6" Water Service Backflow preventer (double check) 6" Sanitary Service Line with main connection Detention Areas Allowance for Misc. General Grading rea New Curb Sphalt parking spaces & rodos 4" White Thermoplastic Handicapped Pavement Markings symbol ADA tactile warning strip (21' and 3') rements ing Soccer Field Lighting Tashing Daze Lighting Allowance Service Provide Conduit and Power to Shelters/Fields General Conditions Overhead	40 60 20 10 40 60 294000 350000 350000 350000 350000 123000 14400 2460 123000 14400 2460 123000 14400 26 40 12 200 2100 701 2100 701	EA EA EA EA EA EA EA EA EA LF LF LS ALL CIF TONS SF EA EA EA EA EA EA EA EA EA EA EA EA LF EA EA EA EA EA EA EA EA EA EA EA EA EA	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
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\$ 8.00	-	
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\$ 2,000.00	\$ 8,000	\$ 33,650
\$ 1,000.00	\$ 9,000	
\$ 3,250.00 \$ 1,500.00	\$ 3,250 \$ 1,500	
\$ 1,700.00	\$ 1,900	
\$ 7,500.00	\$ 7,500	
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\$ 200,000.00	\$ 200,000	
\$ 290,000.00	\$ 290,000	
\$ 120,000.00	\$ 480,000	
\$ 500.00	\$ 20,000	\$ 318,700
\$ 475.00	\$ 28,500	
\$ 350.00	\$ 7,000	
\$ 60.00 \$ 70.00	\$ 600 \$ 2,800	
\$ 25.00	\$ 1,500	
\$ 25.00	\$ 1,000	
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		\$ 283,000
\$ 50.00	\$ 273,000	÷ 285,000
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\$ 65.00	\$ 419,900	
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ovements	\$ 2,963,850	
	\$296,385.00	
	\$148,192.50 \$148,192.50	
	\$88,915.50	
	\$177,831.00	
at Dualante	62 022 2CC E0	
ect Budget:	\$3,823,366.50	

PHASING CITY PARK PHASE 1

Opinion of Probable Cost | City Park

Lansing Parks and Recreation Master Plan

January - 2020

Demo and Removal					\$ 4,200
Remove Playground (In-House)	0	LS	\$ 2,000.00	-	
Remove Structures (In-House)	0	LS	\$ 12,000.00	-	
Remove Pavement	1400	SF	\$ 3.00	\$ 4,200	
Landscape Architecture - Site Improvements					
Pavements / Surfacing / Ramps					\$ 13,200
Concrete trail/walkways - 6" thick	2200	SF	\$ 6.00	\$ 13,200	
Park Wide Site Furnishing					\$ 18,800
Park Bench	4	EA	\$ 2,000.00	\$ 8,000	+ _0,000
Picnic Table	4	EA	\$ 1,000.00	\$ 4,000	
Trash / Recycling Receptacle	4	EA	\$ 1,700.00	\$ 6,800	
Play Equipment					
Engineered Wood Fiber	0	SF	\$ 4.00	-	-
Destination Play	0	LS	\$ 350,000.00	-	
			+,		
Aquatics/Spray Park					\$ 675,00
Spray Ground	1	LS	\$ 675,000.00	\$ 675,000	
Architecture - Site Improvements					
Shelters + Buildings					\$ 100,00
Small Shelter	1	EA	\$ 100,000.00	\$ 100,000	
Landscaping and Irrigation					
Plants and Seed					\$ 7,475
Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	5	EA	\$ 475.00	\$ 2,375	<i>Ų1</i> ,175
Ornamental Trees - B&B 1.5" Cal - Eastern Redbud	3	EA	\$ 350.00	\$ 1,050	
Fescue Turf - Seed	13500	SF	\$ 0.30	\$ 4,050	
Civil Improvements					
Utilities					\$ 21,500
3" Water Service	100	LF	\$ 50.00	\$ 5,000	Ş 21,500
Backflow preventer (double check)	100	EA	\$ 10,000.00	\$ 10,000	
6" Sanitary Service Line with main connection	100	LF	\$ 65.00	\$ 6,500	
Grading Allowance for Misc. General Grading	1	ALL	\$ 10,000.00	\$ 10,000	\$ 10,000
Allowance for Misc. General Grading	1	ALL	\$ 10,000.00	\$ 10,000	
Electrical Improvements					
Electrical Service					\$ 5,000
Provide Conduit and Power to Shelter	100	LF	\$ 50.00	\$ 5,000	ş 5,000
	Tot	al Imp	rovements	\$ 855,175	
General Conditions	10%			\$85,517.50	
	5%			\$42,758.75	_
Overhead				\$42,758.75	
Overhead Profit	5%				
Overhead Profit Inflation	3%			\$25,655.25	
Overhead Profit					

PHASING CITY PARK PHASE 2

Opinion of Probable Cost | City Park Lansing Parks and Recreation Master Plan

Lansing Parks and Recreation Master Plan January - 2020

	nd Removal Remove Playground
	Remove Structures
	Remove Pavement
	Clearing and Grubbing
	itecture - Site Improvements
Pavemer	hts / Surfacing / Ramps
	ADA Curb Ramp Concrete trail/walkways - 6" thick
	Condicite trail/ waikways - 0 tritte
Park Wig	le Site Furnishing
	Park Bench
	Picnic Table
	Drinking Fountain and Bottle Filler
	Bike Racks Trash / Recycling Receptacle
Play Equ	ipment
	Fitness Equipment
	Engineer Wood Fiber
	Destination Play
Aquatics	/Spray Park
	Spray Ground
Sports Fi	elds
500.0011	Baseball Field Renovation
	Sand Volleyball
	Basketball Court
	o
Signage	& Wayfinding
	Primary
Architecture - S	ite Improvements
	+ Buildings
	Restroom
	Medium Shelter w/Restroom
	Small Shelter
	Pedestrian Bridge
Landscaping and	d Irrigation
Plants ar	
	Deciduous Trees - B&B 2" Cal - Swamp White Oak
	Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm
	Ornamental Trees - B&B 1.5" Cal - Eastern Redbud
	Fescue Turf - Seed
	Native Blend - Seed Mix
Civil Improveme	ents
Utiliti	
	3" Water Service
-	Backflow preventer (double check)
	6" Sanitary Service Line with main connection
<u> </u>	
Grading	
Grading	Allowance for Misc. General Grading
Parking	
	Area Asphalt Maintenance Road Concrete parking spaces
	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4"
	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic
	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4"
Parking /	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol
Parking /	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol
Parking /	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements
Parking / Electrical Impro	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements
Parking / Electrical Impro Site Ligh	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements ting Baseball Field Lighting - Keep Existing
Parking / Electrical Impro	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements ting Baseball Field Lighting - Keep Existing
Parking / Electrical Impro Site Ligh	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements ting Baseball Field Lighting - Keep Existing
Parking / Electrical Impro Site Ligh	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements ting Baseball Field Lighting - Keep Existing
Parking / Electrical Impro Site Ligh	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements ting Baseball Field Lighting - Keep Existing
Parking / Electrical Impro Site Ligh	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements ting Baseball Field Lighting - Keep Existing
Parking / Electrical Impro Site Ligh	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements ting Baseball Field Lighting - Keep Existing I Service Provide Conduit and Power to Shelters
Parking / Electrical Impro Site Ligh	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements ting Baseball Field Lighting - Keep Existing I Service Provide Conduit and Power to Shelters General Conditions
Parking / Electrical Impro Site Ligh	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements ting Baseball Field Lighting - Keep Existing I Service Provide Conduit and Power to Shelters General Conditions Overhead
Parking / Electrical Impro Site Ligh	Area Asphalt Maintenance Road Concrete parking spaces Granular Subbase 4" 4" White Thermoplastic Handicapped Pavement Markings symbol vements ting Baseball Field Lighting - Keep Existing I Service Provide Conduit and Power to Shelters General Conditions

					\$ 142,580
	1	LS	\$ 2,000.00	\$ 2,000	1 / / · · ·
	1	LS	\$ 12,000.00	\$ 12,000	
	40860	SF	\$ 3.00	\$ 122,580	
_	1	LS	\$ 20,000.00	\$ 20,000	
_					
					\$ 255,870
	5	EA	\$ 500.00	\$ 2,500	<i>Q</i> 200,070
	38980	SF	\$ 6.50	\$ 253,370	
_					\$ 77,700
_	16	EA	\$ 2,000.00	\$ 32,000	
_	14 2	EA	\$ 1,000.00	\$ 14,000	
_	10	EA EA	\$ 3,250.00 \$ 1,500.00	\$ 6,500 \$ 15,000	
-	6	EA	\$ 1,700.00	\$ 10,200	
			+ -/	+ ==)===	
					\$ 684,000
	1	LS	\$ 60,000.00	\$ 60,000	
	600	CY	\$ 40.00	\$ 24,000	
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	1	EA	\$ 100,000.00	\$ 100,000	+ == 0,000
	2	EA	\$ 10,000.00	\$ 20,000	
	1	EA	\$ 80,000.00	\$ 80,000	
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	1	EA	\$ 120,000.00	\$ 120,000	÷ 030,000
	1	EA	\$ 250,000.00	\$ 250,000	
	2	EA	\$ 100,000.00	\$ 200,000	
	1	EA	\$ 120,000.00	\$ 120,000	
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_	30	EA	É E00.00	¢ 1E 000	\$ 209,525
-	30	EA	\$ 500.00 \$ 475.00	\$ 15,000 \$ 16,625	
-	25	EA	\$ 350.00	\$ 8,750	
	131500	SF	\$ 0.30	\$ 39,450	
	251000	SF	\$ 0.50	\$ 125,500	
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_	0	LF EA	\$ 50.00 \$ 10,000.00	-	
-	0	LF	\$ 10,000.00 \$ 65.00		
-	0		÷ 05.00		
					\$ 40,000
	1	ALL	\$ 40,000.00	\$ 40,000	
_					\$ 441,880
_	7500	SF	\$ 4.00	\$ 30,000	
	57500	SF	\$ 6.50 \$ 25.00	\$ 373,750 \$ 28 750	
-	1150 2580	TONS LF	\$ 3.50	\$ 28,750 \$ 9,030	
	7	EA	\$ 50.00	\$ 350	
			+ 00	+ 200	
					\$ 15,000
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_	300	LF	\$ 50.00	\$ 15,000	
	Te			ć 2 771 FFF	
	101	а тр	provements	\$ 2,771,555	
	100/			6377 455 50	
	10% 5%			\$277,155.50 \$138,577.75	
	5% 5%			\$138,577.75	
-	3%			\$83,146.65	
	6%			\$166,293.30	
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et: \$3,575,30<u>5.95</u>

Lansing Parks and Recreation Master Plan

189

COST ANALYSIS BITTERSWEET PARK

COST ANALYSIS CITY PARK

Opinion of Probable Cost | City Park Lansing Parks and Recreation Master Plan November - 2019

Opinion of Probable Cost | Bittersweet Park

Lansing Parks and Recreation Master Plan November - 2019

Clearing and Grubbing 1 LS \$ 40,000.00 \$ 40,000 andscape Architecture - Site Improvements 5 5 5 5 Parements / Surfacing / Ramps 5 \$ 5.50 \$ 108,000 \$ Concrete trail-4' thick 19800 \$F \$ 5.50 \$ 108,000 \$ Park Wide Site Furnishing	Demolition and Removal					
Landscape Architecture - Site Improvements Site Improvements Site S 5.50 \$ 108,900 S 5 121,5 Concrete trail - 4' thick 19800 SF \$ 5.50 \$ 108,900 \$ 121,50 Decorative Powement 19800 SF \$ 5.50 \$ 108,900 \$ 121,50 Park Ench 6 EA \$ 2,000.00 \$ 12,000 \$ 39,40 Park Bench 6 EA \$ 4,000.00 \$ 22,000 \$ 33,400 Architectural and Seating Walls 6 EA \$ 4,000.00 \$ 33,400 Architectural and Seating Walls 750.00 \$ 90,000 \$ 90,000 \$ 90,000 Signage & Wayfinding 1 EA \$ 15,000 \$ 15,00 Primary 1 EA \$ 50,000 \$ 50,000 Architecture - Site Improvements \$ 50,000 \$ 50,000 \$ 50,000 Fabric Shade Structure 1 EA \$ 60,000 \$ 60,000 Iandscaping and Irrigation 5 \$ 50,30 \$ 54,000 \$ 50,000 Parus and Seed 1000 \$ 5	Demo and Removal					\$ 40,000
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Pavements Strating / Bamps \$ 121,5 Concrete trail-4* thick 19800 \$F \$ 5,50 \$ 108,900 Decorative Pavement 1800 \$F \$ 7,00 \$ 12,600 Park Wide Site Furnishing - \$ 33,4 Park Bench 6 EA \$ 2,000,00 \$ 12,000 Park Table 6 EA \$ 2,000,00 \$ 24,000 Trash / Recycling Receptacle 2 EA \$ 1,700,00 \$ 3,400 Architectural and Seating Walls - - \$ 90,0 Natural Stone Veneer Walls (2 - 2,5' ht) 20 IF \$ 750,00 \$ 90,000 Signage & Wayfinding - - \$ 560,00 \$ 515,000 Primary 1 EA \$ 15,000 \$ 515,000 Architecture - Site Improvements - \$ 560,00 \$ 560,00 Shelters - Buildings - - \$ 48,00 Primary 1 EA \$ 56,000 \$ 56,000 Grading 1 EA \$ 56,000 \$ 56,0						
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Park Table 6 EA \$ 4,000.00 \$ 24,000 Trash / Recycling Receptacle 2 EA \$ 1,700.00 \$ 3,400 Architectural and Seating Walls		6	EA	\$ 2.000.00	\$ 12.000	
Trash / Recycling Receptacle 2 EA \$ 1,700.00 \$ 3,400 Architectural and Seating Walls \$ 90,00 \$ 90,00 Natural Stone Veneer Walls (2 - 2.5' ht) 120 LF \$ 750.00 \$ 90,000 Signage & Wayfinding \$ 120 LF \$ 750.00 \$ 90,000 Signage & Wayfinding \$ 120 LF \$ 750.00 \$ 90,000 Architecture - Site Improvements \$ 1 EA \$ 15,000.00 \$ 60,000 Shetters - Buildings \$ 560.00 \$ 60,000 \$ 60,000 \$ 60,000 Iandscaping and Irrigation \$ EA \$ 60,00 \$ 60,000 \$ 60,000 Plants and Seed \$ 560.00 \$ 560.00 \$ 60,000 \$ 44,00 Shrubs - 5 Gal - Juniper 10 EA \$ 60,000 \$ 42,000 Mative Blend - Seed Mix 840000 \$ 5 \$ 0.30 \$ 5,400 Native Blend - Seed Mix 840000 \$ \$ 0,500 \$ 30,000 Civil Improvements \$ 0,000 \$ 30,000 \$ 30,000 General Conditions 10% \$ 444,447.50 \$ 444,447.50 Overhead 5% <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
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Plants and Seed \$48,0 Shrubs - 5 Gal - Juniper 10 EA \$60,00 \$600 Fescue Turf - Seed 18000 SF \$0.30 \$5,400 Native Blend - Seed Mix 84000 SF \$0.50 \$42,000 Civil Improvements Grading 1 ALL \$30,000 \$30,000 Allowance for Misc. General Grading 1 ALL \$30,000.00 \$30,000 General Conditions 10% \$44,447.50 General Conditions 10% \$44,447.50 Overhead 5% \$22,223.75 Figs colspan="3">Overhead S% \$22,223.75 Inflation 5% \$22,223.75 Design Contingency 10% \$44,447.50	Fabric Shade Structure	1	EA	\$ 60,000.00	\$ 60,000	
Shrubs - 5 Gal - Juniper 10 EA \$ 60.00 \$ 600 Fescue Turf - Seed 18000 SF \$ 0.30 \$ 5,400 Native Blend - Seed Mix 84000 SF \$ 0.50 \$ 42,000 Civil Improvements Grading 1 ALL \$ 30,000.00 \$ 30,000 Allowance for Misc. General Grading 1 ALL \$ 30,000.00 \$ 30,000 General Conditions 10% \$ 444,475 \$ 444,475 General Conditions 10% \$ 42,223.75 \$ 444,47.50 Overhead 5% \$ 22,223.75 \$ 10flation 5% \$ 22,223.75 Design Contingency 10% \$ 44,447.50 \$ 444,447.50	Landscaping and Irrigation					
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Native Blend - Seed Mix 84000 SF \$ 0.50 \$ 42,000 Civil Improvements \$ 30,00 Grading 1 ALL \$ 30,000.00 \$ 30,000 \$ 30,000 \$ 444,475 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447.50 \$ 444,447	Shrubs - 5 Gal - Juniper	10	EA	\$ 60.00	\$ 600	
Civil Improvements \$ 30,00 Grading 1 ALL \$ 30,000 \$ 30,000 Allowance for Misc. General Grading 1 ALL \$ 30,000 \$ 444,475 \$ 444,475 General Conditions 10% \$ 444,475.50 \$ 444,475.50 \$ 444,475.50 \$ 5% \$ 22,223.75 \$ 22,223.75 \$ 10flation 5% \$ 22,223.75 \$ 22,223.75 \$ 22,223.75 \$ 444,447.50	Fescue Turf - Seed	18000	SF	\$ 0.30	\$ 5,400	
Grading \$30,00 Allowance for Misc. General Grading 1 ALL \$30,000.00 \$30,000 Total Improvements \$444,475 \$444,475 General Conditions 10% \$44,447.50 Overhead 5% \$22,223.75 Profit 5% \$22,223.75 Inflation 5% \$22,223.75 Design Contingency 10% \$44,447.50	Native Blend - Seed Mix	84000	SF	\$ 0.50	\$ 42,000	
Grading \$30,00 Allowance for Misc. General Grading 1 ALL \$30,000.00 \$30,000 Total Improvements \$444,475 \$444,475 General Conditions 10% \$44,447.50 Overhead 5% \$22,223.75 Profit 5% \$22,223.75 Inflation 5% \$22,223.75 Design Contingency 10% \$44,447.50	Civil Improvements					
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General Conditions 10% \$44,447.50 Overhead 5% \$22,223.75 Profit 5% \$22,223.75 Inflation 5% \$22,223.75 Design Contingency 10% \$44,447.50		1	ALL	\$ 30,000.00	\$ 30,000	, ,
General Conditions 10% \$44,447.50 Overhead 5% \$22,223.75 Profit 5% \$22,223.75 Inflation 5% \$22,223.75 Design Contingency 10% \$44,447.50					<i></i>	A
Overhead 5% \$22,223.75 Profit 5% \$22,223.75 Inflation 5% \$22,223.75 Design Contingency 10% \$44,447.50		10	ται ιm	brovements	\$ 444,475	\$ 444,475
Overhead 5% \$22,223.75 Profit 5% \$22,223.75 Inflation 5% \$22,223.75 Design Contingency 10% \$44,447.50	General Conditions	10%			\$44.447.50	
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Inflation 5% \$22,223.75 Design Contingency 10% \$44,447.50						
Design Contingency 10% \$44,447.50						

Project Budget: \$600,041.25

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Demo	and Removal
	Remove Playground
	Remove Structures
	Remove Pavement
	Clearing and Grubbing
	hitecture - Site Improvements
Pavem	ents / Surfacing / Ramps
	ADA Curb Ramp
	Concrete trail/walkways - 6" thick
De els M	ide Cite Consisting
Park W	ide Site Furnishing Park Bench
	Picnic Table
	Drinking Fountain and Bottle Filler
	Bike Racks
	Trash / Recycling Receptacle
Diau Ea	uipment
Pidy Eu	Fitness Equipment
	Synthetic Turf
	Destination Play
	Destination ridy
Aquati	cs/Spray Park
Aquati	Spray Ground
Sports	Fields
Sports	Baseball Field Renovation
	Sand Volleyball
	Basketball Court
Signage	e & Wayfinding
	Primary
	·
chitecture -	Site Improvements
Shelter	s + Buildings
	Large Shelter w/ Restroom
	Medium Shelter w/ Restroom
	Small Shelter
	Pedestrian Bridge
	nd Irrigation
Plants	and Seed
	Deciduous Trees - B&B 2" Cal - Swamp White Oak
	Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm
	Ornamental Trees - B&B 1.5" Cal - Eastern Redbud
	Fescue Turf - Seed
	Native Blend - Seed Mix
vil Improven	
Utili	
	3" Water Service
	Backflow preventer (double check)
	6" Sanitary Service Line with main connection
Gradin	
	Allowance for Misc. General Grading
Parking	
	Asphalt Maintenance Road
	Concrete parking spaces
	Granular Subbase 4"
	4" White Thermoplastic
	Handicapped Pavement Markings symbol

Electrical Improvement

Site Lighting Baseball Field Lighting - Keep Existing

Electrical Service Provide Conduit and Power to Shelters

General Conditio Overhead Profit Inflation Design Contingency

					\$ 160,780
	1	LS	\$ 2,000.00	\$ 2,000	1,
	1	LS	\$ 12,000.00	\$ 12,000	
	42260	SF	\$ 3.00	\$ 126,780	
	1	LS	\$ 20,000.00	\$ 20,000	
_					
					\$ 270,170
	5	EA	\$ 500.00	\$ 2,500	
	41180	SF	\$ 6.50	\$ 267,670	
					\$ 96,500
	20	EA	\$ 2,000.00	\$ 40,000	\$ 90,000
	18	EA	\$ 1,000.00	\$ 18,000	
	2	EA	\$ 3,250.00	\$ 6,500	
	10	EA	\$ 1,500.00	\$ 15,000	
	10	EA	\$ 1,700.00	\$ 17,000	
					\$ 988,000
	1	LS	\$ 60,000.00	\$ 60,000	\$ 300,000
	16400	SF	\$ 20.00	\$ 328,000	
	1	LS	\$ 600,000.00	\$ 600,000	
					1 -00 000
	1	LS	\$ 650,000.00	\$ 650,000	\$ 700,000
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					\$ 200,000
	1	EA	\$ 100,000.00	\$ 100,000	1
	2	EA	\$ 10,000.00	\$ 20,000	
	1	EA	\$ 80,000.00	\$ 80,000	
					\$ 15,000
	1	EA	\$ 15,000.00	\$ 15,000	\$ 15,000
			+	+ ==>,===	
					\$ 900,000
	1	EA	\$ 290,000.00	\$ 290,000	
	2	EA EA	\$ 250,000.00 \$ 120,000.00	\$ 250,000 \$ 240,000	
-	1	EA	\$ 120,000.00	\$ 120,000	
			,	1 ./	
	20	54	ć 500.00	6 45 000	\$ 217,000
	30 40	EA EA	\$ 500.00 \$ 475.00	\$ 15,000 \$ 19,000	
	28	EA	\$ 350.00	\$ 9,800	
	145000	SF	\$ 0.30	\$ 43,500	
	251000	SF	\$ 0.50	\$ 125,500	
-	400				\$ 66,000
		LF	\$ 50.00	\$ 20.000	\$ 66,000
	2	LF EA	\$ 50.00 \$ 10,000.00	\$ 20,000 \$ 20,000	\$ 66,000
	2 400		\$ 50.00 \$ 10,000.00 \$ 65.00		\$ 66,000
		EA	\$ 10,000.00	\$ 20,000	
	400	EA LF	\$ 10,000.00 \$ 65.00	\$ 20,000 \$ 26,000	\$ 66,000 \$ 50,000
		EA	\$ 10,000.00	\$ 20,000	
	400	EA LF	\$ 10,000.00 \$ 65.00	\$ 20,000 \$ 26,000	\$ 50,000
	400	EA LF	\$ 10,000.00 \$ 65.00	\$ 20,000 \$ 26,000	
	400 1 7500 57500	EA LF ALL SF SF	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750	\$ 50,000
	400 1 7500 57500 1150	EA LF ALL SF SF TONS	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750	\$ 50,000
	400 1 7500 57500 1150 2580	EA LF ALL SF SF TONS LF	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030	\$ 50,000
	400 1 7500 57500 1150	EA LF ALL SF SF TONS	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750	\$ 50,000
	400 1 7500 57500 1150 2580	EA LF ALL SF SF TONS LF	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030	\$ 50,000 \$ 441,880
	400 1 7500 57500 1150 2580	EA LF ALL SF SF TONS LF	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030	\$ 50,000
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	400 1 7500 57500 1150 2580	EA LF ALL SF SF TONS LF	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030	\$ 50,000 \$ 441,880
	400 1 7500 57500 1150 2580 7	EA LF ALL SF SF TONS LF EA	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50 \$ 50.00	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030	\$ 50,000 \$ 441,880
	400 1 57500 1150 2580 7 0	EA LF ALL SF SF TONS LF EA EA	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50 \$ 50.00 \$ 3.50 \$ 290,000.00	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030 \$ 350 	\$ 50,000 \$ 441,880
	400 1 7500 57500 1150 2580 7	EA LF ALL SF SF TONS LF EA	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50 \$ 50.00	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030	\$ 50,000 \$ 441,880
	400 1 7500 57500 1150 2580 7 0 400	EA LF ALL SF SF TONS LF EA EA LF	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50 \$ 50.00 \$ 3.50 \$ 290,000.00	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030 \$ 350 	\$ 50,000 \$ 441,880
	400 1 7500 57500 1150 2580 7 0 400	EA LF ALL SF SF TONS LF EA EA LF	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50 \$ 50.00 \$ 290,000.00 \$ 290,000.00 \$ 50.00	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030 \$ 350 \$ 20,000 \$ 20,000 \$ 4,075,330	\$ 50,000 \$ 441,880 \$ 20,000
	400 1 7500 57500 1150 2580 7 0 400 Tot 10%	EA LF ALL SF SF TONS LF EA EA LF	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50 \$ 50.00 \$ 290,000.00 \$ 290,000.00 \$ 50.00	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030 \$ 350 - - \$ 20,000 \$ 4,075,330 \$ 407,533.00	\$ 50,000 \$ 441,880 \$ 20,000
	400 1 7500 57500 1150 2580 7 0 400 Tot 10% 5%	EA LF ALL SF SF TONS LF EA EA LF	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50 \$ 50.00 \$ 290,000.00 \$ 290,000.00 \$ 50.00	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030 \$ 350 \$ 20,000 \$ 4,075,330 \$ 407,533.00 \$ 203,766.50	\$ 50,000 \$ 441,880 \$ 20,000
	400 1 7500 57500 1150 2580 7 0 400 Tot 10%	EA LF ALL SF SF TONS LF EA EA LF	\$ 10,000.00 \$ 65.00 \$ 50,000.00 \$ 4.00 \$ 6.50 \$ 25.00 \$ 3.50 \$ 50.00 \$ 290,000.00 \$ 290,000.00 \$ 50.00	\$ 20,000 \$ 26,000 \$ 50,000 \$ 30,000 \$ 373,750 \$ 28,750 \$ 9,030 \$ 350 - - \$ 20,000 \$ 4,075,330 \$ 407,533.00	\$ 50,000 \$ 441,880 \$ 20,000

Project Budget: \$5,501,695.50

COST ANALYSIS KELLY GROVE PARK

Opinion of Probable Cost | Kelly Grove Park

Lansing Parks and Recreation Master Plan November - 2019

Demo and Removal					\$ 20,000
Clearing and Grubbing	1	LS	\$ 20,000.00	\$ 20,000	<i>\ 20)000</i>
dscape Architecture - Site Improvements					
Pavements / Surfacing / Ramps					\$ 168,750
Concrete walkways - 4" thick	6000	SF	\$ 5.50	\$ 33,000	\$ 108,750
Decomposed Granite, 6' wide	16500	SF	\$ 2.50	\$ 41,250	
Boardwalk	5300	SF	\$ 15.00	\$ 79,500	
Fire Ring Improvements	1	LS	\$ 15,000.00	\$ 15,000	
File king improvements	1	LS	\$ 15,000.00	\$ 15,000	
Park Wide Site Furnishing					\$ 27,400
Park Bench	12	EA	\$ 2,000.00	\$ 24,000	
Trash / Recycling Receptacle	2	EA	\$ 1,700.00	\$ 3,400	
Signage & Wayfinding					\$ 15,000
Primary	1	EA	\$ 15,000.00	\$ 15,000	÷ 10,000
		273	φ <u>1</u> 0,000.000	ý 10,000	
chitecture - Site Improvements					
Structures					\$ 50,000
Low Water Crossing	1	LS	\$ 50,000.00	\$ 50,000	
ndscaping and Irrigation					
Plants and Seed					\$ 26,825
Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	7	EA	\$ 475.00	\$ 3,325	
Native Blend - Seed Mix	47000	SF	\$ 0.50	\$ 23,500	
Parking Areas					\$ 56,130
Asphalt parking spaces	12100	SF	\$ 4.00	\$ 48,400	Ş 30,130
Granular Subbase 4"	242	TONS	\$ 25.00	\$ 6,050	
4" White Thermoplastic	180	LF	\$ 3.50	\$ 630	
Crosswalk	180	EA	\$ 1,000.00	\$ 1,000	
Handicapped Pavement Markings symbol	1	EA	\$ 50.00	\$ 50	
	То	tal Imp	provements	\$ 364,105	\$ 364,105
General Conditions	10%			\$36,410.50	
Overhead	5%			\$18,205.25	
Profit	5%			\$18,205.25	
Inflation	5%			\$18,205.25	
Design Contingency	10%			\$36,410.50	
Design contingency	10/8			\$30,410.30	
		_			

Project Budget: \$491,541.75

COST ANALYSIS BERNARD PARK

Opinion of Probable Cost | Kenneth Bernard Park Lansing Parks and Recreation Master Plan November - 2019

andscape Archi	tecture - Site Improvements
	ts / Surfacing / Ramps
	Concrete trails - 6" thick
	Decorative Pavement
	e Site Furnishing
	Park Bench
	Picnic Table
	Drinking Fountain and Bottle Filler
	Bike Racks
	Trash / Recycling Receptacle
	Flag Pole
Aquatics/	Spray Park
	Fishing Docks
	Spray Ground Materials
	Spray Ground Installation
Play Equi	amont
	Nature Play
	Synthetic Turf
	Large Play
Sports Fie	elds
	Baseball Fields (5)
	Field Irrigation
	Dugout Benches
	Soccer Fields (2)
	Soccer Field Irrigation
	6" Water Service
	Fescue Turf - Seed
	Cornhole
	Disc Golf
	Pickleball
Signage 8	Wayfinding
	Primary
	Secondary
	te Improvements
Shelters +	Buildings
	Vehicular Bridge
	Maintenance Building
	Restroom
	Pedestrian Bridge
	Concession w/ Restroom
	Ampitheater
	Medium Shelter w/ Restroom
	Large Shelter w/ Restroom
	Small Shelter
ndscaping and	Irrigation
Plants an	
rianto an	Deciduous Trees - B&B 2" Cal - Swamp White Oak
	Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm
	Ornamental Trees - B&B 1.5" Cal - Eastern Redbud
	Shrubs - 5 Gal - Juniper
	Shrubs - 3 Gal - Flutterby Flow Lavender Butterfly Bush
	Annuals/Perennials - 1 Gal - Russian Sage
	Grasses - 1 Gal
	Fescue Turf - Seed
	Native Blend - Seed Mix
il Improveme/	nts
Utiliti	es
	6" Water Service
	Backflow proventer (double check)

Backflow preventer (double check

iranular Subbase 4" (2 tons per 100 Concrete parking spaces & road

4" White Thermoplastic Handicapped Pavement Markings symb ADA tactile warning strip (21' and 3'

Electrical Improvemen

Site Lighting occer Field Lightir Baseball Field Lighting -ball Field Lighting Lansing Daze Lighting Allow

Electrical Service Conduit and Power to Shelters/Field

Design Contingen

				\$ 1,896,500
245000	SF	\$ 6.50	\$ 1,592,500	÷1,850,500
38000	SF	\$ 8.00	\$ 304,000	
				\$ 156,100
 32 26	EA EA	\$ 2,000.00 \$ 1,000.00	\$ 64,000 \$ 26,000	
 4 10	EA	\$ 3,250.00	\$ 13,000 \$ 15,000	
10	EA EA	\$ 1,500.00 \$ 1,700.00	\$ 30,600	
 1	EA	\$ 7,500.00	\$ 7,500	
				\$ 670,000
 4	EA LS	\$ 30,000.00 \$ 350,000.00	\$ 120,000 \$ 350,000	
1	LS	\$ 200,000.00	\$ 200,000	
				\$ 1,510,000
1 38000	LS SF	\$ 250,000.00	\$ 250,000 \$ 760,000	
1	LS	\$ 20.00 \$ 500,000.00	\$ 500,000	
 				\$ 3,288,943
1	LS	\$ 1,550,835.00	\$ 1,550,835	÷ 5,266,545
 1 10	EA EA	\$ 140,000.00 \$ 250.00	\$ 140,000 \$ 2,500	
2	EA	\$ 478,804.00	\$ 957,608	
1 1800	EA LF	\$ 80,000.00 \$ 50.00	\$ 80,000 \$ 90,000	
40000 8	SF EA	\$ 0.30 \$ 2,000.00	\$ 12,000 \$ 16,000	
1	EA	\$ 200,000.00	\$ 200,000	
 6	EA	\$ 40,000.00	\$ 240,000	
	e -	A 4 5 000 00	A 4 5 000	\$ 45,000
 1 3	EA EA	\$ 15,000.00 \$ 10,000.00	\$ 15,000 \$ 30,000	
				\$ 3,210,000
1	EA EA	\$ 500,000.00 \$ 120,000.00	\$ 500,000 \$ 120,000	
1	EA	\$ 120,000.00	\$ 120,000	
 3	EA EA	\$ 120,000.00 \$ 220,000.00	\$ 360,000 \$ 300,000	
1	EA EA	\$ 500,000.00	\$ 500,000	
2	EA	\$ 250,000.00 \$ 290,000.00	\$ 250,000 \$ 580,000	
 4	EA	\$ 120,000.00	\$ 480,000	
 160	EA	\$ 500.00	\$ 80,000	\$ 470,100
220 120	EA EA	\$ 475.00 \$ 350.00	\$ 104,500	
10	EA	\$ 60.00	\$ 42,000 \$ 600	
 40 60	EA	\$ 70.00 \$ 25.00	\$ 2,800 \$ 1,500	
40	EA	\$ 25.00	\$ 1,000	
 624000 101000	SF SF	\$ 0.30 \$ 0.50	\$ 187,200 \$ 50,500	
				\$ 802,900
 6460 6	LF EA	\$ 50.00 \$ 10,000.00	\$ 323,000 \$ 60,000	
6460	LF	\$ 65.00	\$ 419,900	
				\$ 700,000
 1	LS	\$ 500,000.00	\$ 500,000 \$ 200,000	
 1	ALL	\$ 200,000.00	\$ 200,000	
 25600	LF	\$ 20.00	\$ 512,000	\$ 3,234,600
8200	TONS	\$ 25.00	\$ 205,000	
 410000 14400	SF LF	\$ 6.00 \$ 3.50	\$ 2,460,000 \$ 50,400	
40	EA	\$ 50.00	\$ 2,000	
26	EA	\$ 200.00	\$ 5,200	
				\$ 2,980,000
4	EA	\$ 285,000.00	\$ 1,140,000	
2	EA EA	\$ 290,000.00 \$ 60,000.00	\$ 500,000 \$ 120,000	
1	LS	\$ 1,000,000.00	\$ 1,000,000	
4400	LF	\$ 50.00	\$ 220,000	
Tot	al Im	orovements	\$ 18,964,143	\$ 18,964,143
 10% 5%			\$1,896,414.30 \$948,207.15	
5%			\$948,207.15	
 5% 10%			\$948,207.15 \$1,896,414.30	
	Pr	oject Budget:	\$25,601,593.05	
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Lansing Parks and Recreation Master Plan

COST ANALYSIS WILLOW PARK

Opinion of Probable Cost | Willow Park

Lansing Parks and Recreation Master Plan

November - 2019

lition and Removal					
Demo and Removal					\$ 3,325
Remove Existing Walkway	50	LF	\$ 6.50	\$ 325	1 - /
Remove Structure	1	LS	\$ 1,000.00	\$ 1,000	
Remove Shed	1	LS	\$ 2,000.00	\$ 2,000	
			+ _)+++++	+ _,	
cape Architecture - Site Improvements					
Pavements / Surfacing / Ramps					\$ 220,940
ADA Curb Ramp	2	EA	\$ 500.00	\$ 1,000	+ ===)= · ·
Concrete walkways - 4" thick	38680	SF	\$ 5.50	\$ 212,740	
Concrete edging - 1'	360	LF	\$ 20.00	\$ 7,200	
condicte cuging 1	500		Ş 20.00	<i>Ş1,200</i>	
Park Wide Site Furnishing					\$ 91,450
Park Bench	8	EA	\$ 2,000.00	\$ 16,000	Ş J1,430
	o 14				
Park Table		EA	\$ 4,000.00	\$ 56,000	
Drinking Fountain and Bottle Filler	1	EA	\$ 3,250.00	\$ 3,250	
Bike Racks	4	EA	\$ 1,500.00	\$ 6,000	
Trash / Recycling Receptacle	6	EA	\$ 1,700.00	\$ 10,200	
Play Equipment					\$ 543,400
Fitness Equipment	1	LS	\$ 60,000.00	\$ 60,000	
Small Playground	1	LS	\$ 100,000.00	\$ 100,000	
Medium Playground	1	LS	\$ 250,000.00	\$ 250,000	
Synthetic Turf	6670	SF	\$ 20.00	\$ 133,400	
Aquatics/Spray Park					\$ 450,000
Spray Ground	1	LS	\$ 450,000.00	\$ 450,000	
			,		
Sports Fields					\$ 124,000
Bocce Ball	2	EA	\$ 15,000.00	\$ 30,000	÷ 124,000
Shuffleboard	2	EA	\$ 6,000.00	\$ 12,000	
Gagaball		EA	\$ 2,000.00	\$ 2,000	
	1				
Pickleball	2	EA	\$ 40,000.00	\$ 80,000	
					4 . =
Signage & Wayfinding					\$ 15,000
Primary	1	EA	\$ 15,000.00	\$ 15,000	
ecture - Site Improvements					
Shelters + Buildings					\$ 530,000
Large Shelter w/ Restroom	1	EA	\$ 290,000.00	\$ 290,000	
Small Shelter	2	EA	\$ 120,000.00	\$ 240,000	
caping and Irrigation					
Plants and Seed					\$ 62,500
Deciduous Trees - B&B 2" Cal - Swamp White Oak	30	EA	\$ 500.00	\$ 15,000	
Deciduous Trees - B&B 2" Cal - Emerald Sunshine Elm	30	EA	\$ 475.00	\$ 14,250	
Ornamental Trees - B&B 1.5" Cal - Eastern Redbud	15	EA	\$ 350.00	\$ 5,250	
Shrubs - 5 Gal - Juniper	10	EA	\$ 60.00	\$ 600	
Fescue Turf - Seed	38000	SF	\$ 0.30	\$ 11,400	
Native Blend - Seed Mix	32000	SF	\$ 0.50	\$ 16,000	
Native biend - Seed Mix	52000	51	Ş 0.50	\$ 10,000	
mprovements					¢ 22 200
Utilities			4 - 0 - 0		\$ 33,200
3" Water Service	100	LF	\$ 50.00	\$ 5,000	
Backflow preventer (double check)	1	EA	\$ 10,000.00	\$ 10,000	
6" Sanitary Service Line with main connection	280	LF	\$ 65.00	\$ 18,200	
Grading					\$ 20,000
Allowance for Misc. General Grading	1	ALL	\$ 20,000.00	\$ 20,000	
					\$ 47,305
Parking Areas		LF	\$ 20.00	\$ 10,000	. ,
	500		\$ 2.00	\$ 36,000	
New Curb	500 18000	SF		\$ 1,155	
New Curb Asphalt Overlay	18000	SF LF	\$ 3,50		
New Curb Asphalt Overlay 4" White Thermoplastic	18000 330	LF	\$ 3.50 \$ 50.00		
New Curb Asphalt Overlay	18000		\$ 3.50 \$ 50.00	\$ 150	
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol	18000 330	LF			¢ 14 000
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol cal Improvements	18000 330	LF			\$ 14,000
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol cal Improvements Electrical Service	18000 330 3	LF EA	\$ 50.00	\$ 150	\$ 14,000
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol cal Improvements	18000 330	LF			\$ 14,000
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol cal Improvements Electrical Service	18000 330 3	LF EA	\$ 50.00	\$ 150	\$ 14,000
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol cal Improvements Electrical Service	18000 330 3 280	LF EA LF	\$ 50.00 \$ 50.00	\$ 150 \$ 14,000	
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol cal Improvements Electrical Service	18000 330 3 280	LF EA LF	\$ 50.00	\$ 150	
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol cal Improvements Electrical Service Provide Conduit and Power to Shelter	18000 330 3 280 <i>To</i>	LF EA LF	\$ 50.00 \$ 50.00	\$150 \$14,000 \$2,155,120	
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol cal Improvements Electrical Service Provide Conduit and Power to Shelter General Conditions	18000 330 3 280 <i>To</i> 10%	LF EA LF	\$ 50.00 \$ 50.00	\$ 150 \$ 14,000 \$ 2,155,120 \$215,512.00	
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol cal Improvements Electrical Service Provide Conduit and Power to Shelter General Conditions Overhead	18000 330 3 280 700 10% 5%	LF EA LF	\$ 50.00 \$ 50.00	\$ 150 \$ 14,000 \$ 2,155,120 \$215,512.00 \$107,756.00	
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol ical Improvements Electrical Service Provide Conduit and Power to Shelter General Conditions Overhead Profit	18000 330 3 280 700 10% 5% 5%	LF EA LF	\$ 50.00 \$ 50.00	\$ 150 \$ 14,000 \$ 2,155,120 \$215,512.00 \$107,756.00 \$107,756.00	\$ 14,000
New Curb Asphalt Overlay 4" White Thermoplastic Handicapped Pavement Markings symbol ical Improvements Electrical Service Provide Conduit and Power to Shelter General Conditions Overhead	18000 330 3 280 700 10% 5%	LF EA LF	\$ 50.00 \$ 50.00	\$ 150 \$ 14,000 \$ 2,155,120 \$215,512.00 \$107,756.00	

Project Budget: \$2,909,412.00







