12

Implementation

12.1 Funding the Master Plan

The master plan establishes a 25 year vision for improvements at Lake Calhoun/Bde Maka Ska and Lake Harriet. It sets forth ideas to capture the public's imagination and support and positions the MPRB to take advantage of opportunities as they arise. In order to achieve the master plan's goals and initiatives, significant efforts will be needed in subsequent years to identify new funding sources and donors to supplement existing state and regional funding. Expanded interagency cooperation and perhaps public-private partnerships may be required. The MPRB will actively seek grants, collaborative funding agreements, donations, volunteer projects, and multi-agency projects to reduce the total cost to the MPRB. Implementation will require continued community advocacy and outside money.

Beginning with the 2017 budget, MPRB has applied a custom-created equity-based metric to the determination of capital projects in *neighborhood* parks. *Regional* park projects in the 2017-2022 Capital Improvement Plan (CIP) were selected based on infrastructure need and on cycling funds through all parks in the system. In 2017 MPRB will be developing an equity metric for selecting regional park capital projects, which will be used beginning in the 2018 budget cycle. Regional projects added to the CIP for the 2023 funding year will adhere to these equity metrics. At the time of the writing of this master plan, the regional equity metrics have not yet been developed, so it is impossible to know how the Minneapolis Chain of Lakes Regional Park will rank.

In addition to existing state and regional funding sources, the Met Council expects to initiate a competitive grant program for capital projects based on improving equitable access to regional facilities. Though at the time of the writing of this master plan, the criteria for this program have not yet been finalized, it may be possible for MPRB to access some of this funding for Calhoun/Bde Maka Ska and Harriet, particularly in light of numerous master plan recommendations and projects targeted to serve minority populations and/or people with disabilities.

Existing funds from Met Council for the Minneapolis Chain of Lakes Regional Park should be directed to replacement of existing popular but deteriorated facilities in the parks, such as trail paving or access points. Resolving safety issues should also be a priority. Construction of new initiatives shown in the master plan might occur if non-traditional sources of funding become available.

12.2 Public Services Infrastructure Needs

The master plan recommendations for Calhoun/Bde Maka Ska-Harriet will require investment in non-recreational public infrastructure, services, and utilities. Existing roads, electricity, gas, water, and sewer services are available in nearby neighborhoods and commercial areas. However, several facilities proposed in the master plan will necessitate extensions and modifications to these in-place utilities. These costs are factored into the individual project costs.

Plumbed restrooms, requiring water and sanitary sewer, are proposed for the following locations:

- NE Calhoun/Bde Maka Ska (the 2016 plan for the Refectory calls for a new separate restroom building)
- NW Calhoun/Bde Maka Ska
- SW Calhoun/Bde Maka Ska
- William Berry near the existing maintenance garage
- Lake Harriet Bandshell area (additional restroom building)
- Lyndale Park

Many public storm sewers, managed by the City of Minneapolis and other municipalities, empty into the Chain of Lakes The maintenance and repair of those storm sewer systems which only drain parkland are the solely responsibility of the MPRB. Some of these systems need overhaul and replacement and are identified as projects in the implementation plan. The Lower Road along the east side of Lake Harriet and the open space at NW Calhoun/Bde Maka Ska are two areas around the lakes that flood frequently and need significant storm sewer infrastructure investment. Master plan recommendations for both of these areas considered water, flooding, and storm sewer issues.

MPRB Environmental Stewardship staff suggest that all of the storm sewer infrastructure at Minneapolis Chain of Lakes Regional Park is in need of a condition assessment. They predict that many components will need replacement in the next twenty-five years.

12.3 Public Infrastructure Related to Recreation

The key public infrastructure projects necessary to complete the Calhoun/Bde Maka Ska-Harriet vision include: a land bridge, road realignments, and trail additions and modifications to complete key gaps within the system. Because of jurisdictional issues, these projects will be implemented in collaboration with other agencies, namely Hennepin County and the City of Minneapolis. MPRB has developed a good working relationship with both entities and expects to continue envisioning changes together. The projects listed below are described in depth in the Master Plan - Focus Areas chapters.

Bridges

- A land bridge at the north end of Lake Calhoun/Bde Maka Ska over West Lake Street would provide a parkland connection between Lake of the Isles and Lake Calhoun/ Bde Maka Ska. Since Hennepin County has jurisdiction over West Lake Street and major modifications to the road bed would be required to make the land bridge accessible, this project is dependent on Hennepin County support.

Roads

- Realigning West Calhoun Parkway at NW Calhoun/ Bde Maka Ska would create additional space along the lakeshore for new recreational uses and existing trails.
- Realign lanes for eastbound traffic on West Lake Street, east of Thomas Avenue, to create more parkland for off-street bicycle trails (Hennepin County jurisdiction).
- Convert a segment of West Harriet Parkway, along the west side of the parking lot at the Bandshell, to two-way traffic
- Close Lower Road along east Lake Harriet to vehicles, redirecting traffic to upper East Lake Harriet Parkway.

Trails

- Lake Calhoun/Bde Maka Ska: When West Lake Street is reconstructed, expand the bicycle trail on the south side and convert it to a two-way system.
- William Berry: Add a two-way trail through the east side of William Berry to W 36th Street, providing a shortcut for cyclists to W 36th Street.
- Lake Harriet: Convert the Lower Road on the east side of Lake Harriet to a two-way bicycle trail and remove the existing one way bicycle trail.
- Lyndale Park: Add an off-street multi-use trail to the west side of Rose Way Road

12.4 Historical Infrastructure

The Chain of Lakes is included in the Grand Rounds, which has been determined eligible for listing in the National Register of Historic Places as a historic district. Resources in the Grand Rounds were inventoried and evaluated between 2008 and 2010 and included in a draft National Register nomination. At that time, the period of significance was determined to be 1887–1942. This timeframe is currently being reevaluated to include modifications made to update and unify the system in the 1970s. Between 1973 and 1978, the Grand Rounds received its first comprehensive update following the plans of landscape architects Eckbo, Dean, Williams and Austin, as well as the recommendations of the local Citizens Parkway Committee. An inventory of buildings, structures, objects and sites, as well as consultant recommendations related to the nomination are included in a report in the Appendix for this document. As projects are implemented, historic structures will be identified and assessed for condition. The design team will work with historians to determine actions needed to retain these features of the parks.

As part of the master planning process, the MPRB invested in a study which assessed the condition of historic WPA walls around the two lakes, at north Calhoun/Bde Maka Ska, southeast Calhoun/Bde Maka Ska, and west Harriet. Because the walls are in such poor condition, they must be rebuilt, a cost estimated in 2016 at $933,225. The MPRB has a number of WPA walls and other structures in its park system. It is seeking state funding to address the deterioration of these historic features.

Other projects with historic significance that were identified during the master planning process include

- Restoration of the WWI Naval Memorial at northeast Calhoun/Bde Maka Ska
- Reinstallation of the sinking boulder with the bronze plaque commemorating the Pond Brothers on the east side of Calhoun/Bde Maka Ska
- Replacing the chain link fence around the Rose Garden at Lyndale Park with a more historically appropriate style.

12.5 Estimated Development Costs

The estimated development costs for implementing the master plan are $126 million based on 2016 construction costs, including a 25% contingency for design and engineering and other project "soft costs" (testing, survey, etc). A 5% inflation factor should be added each year. A table of projects and associated cost estimates follows.

The MPRB updates its six-year Capital Improvement Plan (CIP) on an annual basis. Before a Calhoun/Bde Maka Ska - Harriet Master Plan project is added to the MPRB's CIP, its scope and cost estimate should be scrutinized and refined to adjust for inflation and project "soft costs" such as surveys, testing, design and engineering, and additional community engagement.

12.6 Phasing Plan

The CAC reviewed the list of master plan projects and the preliminary priority status assigned to each. Some adjustments were made to the list during the last CAC meeting held in May 2015. Each project was assigned a short-term, medium-term, or long-term priority.

Projects that require significant coordination, approvals, and/or funding from other agencies or organizations such as the City of Minneapolis, the Minnehaha Creek Watershed District, Hennepin County, or private interests are designated as "Dependent." Implementation can only occur as a joint project with the relevant partnering agency(ies). Cost estimates for these "Dependent" projects reflect expenditures expected for MPRB only.

The following tables show condensed and extended versions of the list of master plan projects. Number can be referenced back to each of the focus area graphics.

No	Project	Location	Priority	Cost
Overall Improvements				
	Water Quality and Natural Resources			
1	**In-lake Alum Treatment**	both lakes	**Short**	$1,500,000
	Access and Circulation			
2	**Overall pedestrian/bicycle trail and access improvements**	both lakes	**Short**	$4,480,000
3	**Shuttle/bus circulator**	both lakes	**Short/DEPENDENT**	TO BE DETERMINED
Lake Calhoun/Bde Maka Ska and William Berry				
	Water Quality and Natural Resources			
4	**Erosion control, native restoration, stabilization, and enhancements**	Lake Calhoun/Bde Maka Ska	**Short**	$430,000
5	**Drainage, stormwater treatment, flooding correction**	Lake Calhoun/Bde Maka Ska	**Short**	$2,070,000
	Access and Circulation			
6	**Pedestrian/bicycle circulation improvements at N Calhoun/Bde Maka Ska and Lake of the Isles connection**	N Calhoun/Bde Maka Ska	**Short/On-going**	$1,345,000
7	**Land bridge connection over Lake Street to Lake of the Isles**	N Calhoun/Bde Maka Ska	**Long**	$39,500,000
8	**Pedestrian/bicycle circulation improvements at NE Calhoun/Bde Maka Ska and Lakes of the Isles connection**	NE Calhoun/Bde Maka Ska	**Short**	$1,775,000
9	**Resolve pedestrian circulation at pinch points and improved lake access points**	Lake Calhoun/Bde Maka Ska	**Short**	$4,945,000
10	**Realignment of W Calhoun Parkway and promenade from Market Plaza**	NW Calhoun/Bde Maka Ska	**Medium**	$5,292,000
11	**Pedestrian/bicycle improvements at SW Calhoun/Bde Maka Ska**	SW Calhoun/Bde Maka Ska	**Medium**	$790,000
12	**Pedestrian/bicycle improvements at S Calhoun/Bde Maka Ska and William Berry Area**	S Calhoun/Bde Maka Ska and William Berry Area	**Short**	$3,480,000
13	**New trolley stop at William Berry area**	William Berry	**Long/DEPENDENT**	TO BE DETERMINED
	Recreation/Programming/Events			
14	**Not Used**	N Calhoun/Bde Maka Ska		
15	**New boat launch area at NW Calhoun/Bde Maka Ska**	NW Calhoun/Bde Maka Ska	**Short**	$1,000,000
16	**Improve park buildings and facilities**	Lake Calhoun/Bde Maka Ska	**Medium**	$11,700,000
17	**Improve rental facilities**	Lake Calhoun/Bde Maka Ska	**Long**	$1,750,000
18	**Improve recreation amenities**	Lake Calhoun/Bde Maka Ska	**Medium**	$5,525,000
19	**Mixed-use development at former surface parking lot area**	NW Calhoun/Bde Maka Ska	**Long/DEPENDENT**	TO BE DETERMINED
	Cultural/Historic Resources			
20	**Restoration of WPA walls and historic monuments**	Lake Calhoun/Bde Maka Ska	**Medium**	$770,000
21	**Overall wayfinding and Interpretation signage**	Lake Calhoun/Bde Maka Ska	**Medium**	$300,000
22	**Incorporate Cloudman Village interpretation area**	S Calhoun/Bde Maka Ska	**Short/On-going**	$350,000
Lake Harriet				
	Water Quality and Natural Resources			
23	**Erosion control, native restoration, stabilization, and enhancements**	Lake Harriet	**Short**	$500,000
24	**Drainage, stormwater treatment, flooding correction**	Lake Harriet	**Short**	$640,000
	Access and Circulation			
25	**Improved multi-modal circulation at Band Shell area**	Band shell	**Short**	$3,100,000
26	**Improved circulation at E Harriet/Lower Road**	E Harriet/Lower Road	**Short**	$380,000
27	**Improved circulation at Lyndale Park/Rose gardens area**	Lyndale Park	**Medium**	$750,000
	Recreation/Programming/Events			
28	**Improve park buildings and facilities**	Lake Harriet	**Medium**	$4,325,000
29	**Improve rental facilities**	Band shell	**Medium**	$800,000
30	**Improve recreation amenities**	Lake Harriet	**Long**	$2,525,000
	Cultural/Historic Resources			
31	**Restoration of WPA walls and historic monuments**	Lake Harriet	**Medium**	$170,000
32	**Overall wayfinding and Interpretation signage**	Lake Harriet	**Short**	$225,000

* Estimate is based on 2017 project costs. A 3 to 5% increase should be considered for every additional year.

Subtotal estimated costs	$100,417,000
Contingency Design and Engineering	$25,104,250
Total estimate costs*	**$125,521,250**

Condensed List of Master Plan Projects

Extended List of Master Plan Projects

No	Project	Location	Priority	Cost
Overall Improvements				
	Water Quality and Natural Resources			
1	**In-lake Alum Treatment**	both lakes	**Short**	$1,500,000
1a	Alum Treatment for Lake Calhoun/Bde Maka Ska	Lake Calhoun/Bde Maka Ska		$810,000
1b	Alum treatment for Lake Harriet	Lake Harriet		$690,000
	Access and Circulation			
2	**Overall pedestrian/bicycle trail and access improvements**	both lakes	**Short**	$4,480,000
2a	Restore/improve existing trail conditions not reflected in focus areas	both lakes		$4,340,000
2b	Include ped ramps and additional curb cuts	both lakes		$140,000
3	**Shuttle/bus circulator**	both lakes	**Short/DEPENDENT**	TO BE DETERMINED
Lake Calhoun/Bde Maka Ska and William Berry				
	Water Quality and Natural Resources			
4	**Erosion control, native restoration, stabilization, and enhancements**	Lake Calhoun/Bde Maka Ska	**Short**	$430,000
4a	Regrading, address erosion issues	Lake Calhoun/Bde Maka Ska		$50,000
4b	Restoration of native species and natural habitats	Lake Calhoun/Bde Maka Ska		$380,000
4b-1	Oak Savannah at E Calhoun/Bde Maka Ska	E Calhoun/Bde Maka Ska		$50,000
4b-2	Cottonwoods at N Calhoun/Bde Maka Ska	N Calhoun/Bde Maka Ska		$30,000
4b-3	Pollinator gardens within sun pockets	Lake Calhoun/Bde Maka Ska		$70,000
4b-4	Improved green edge along W Calhoun parkway at SW Calhoun/Bde Maka Ska	W and SW Calhoun/Bde Maka Ska		$130,000
4b-5	Wetland restoration at William Berry area	William Berry		$100,000
5	**Drainage, stormwater treatment, flooding correction**	Lake Calhoun/Bde Maka Ska	**Short**	$2,070,000
5a	Bio-engineer extension of lake, vegetation filter at NW and E Calhoun/Bde Maka Ska. Wetland and emergent vegetation improvements at boardwalk and pier areas	NW and E Calhoun/Bde Maka Ska		$250,000
5b	Stormwater infrastructure/outlets improvements at NW and E Calhoun/Bde Maka Ska	NW and E Calhoun/Bde Maka Ska		$300,000
5c	Improve field condition, drainage, and stormwater run-off capture at NW Calhoun/Bde Maka Ska	NW Calhoun/Bde Maka Ska		$320,000
5d	Field/open space drainage improvements at SW Calhoun/Bde Maka Ska	SW Calhoun/Bde Maka Ska		$300,000
5e	New and existing parking lot improvements/incorporate stormwater BMP's	Lake Calhoun/Bde Maka Ska		$800,000
5f	Improve open space, drainage, and stormwater run-off capture at William Berry area	William Berry		$100,000
	Access and Circulation			
6	**Pedestrian/bicycle circulation improvements at N Calhoun/Bde Maka Ska and Lake of the Isles connection**	N Calhoun/Bde Maka Ska	**Short/On-going**	$1,345,000
6a	Bike and pedestrian on-grade Lake St. crossing at Thomas Ave.	N Calhoun/Bde Maka Ska		$355,000
6b	Bike and pedestrian on-grade Lake St. crossing at Dean Parkway	N Calhoun/Bde Maka Ska		$340,000
6c	Improved ped/bike circulation at N Calhoun/Bde Maka Ska per Hennepin County Lake Street improvements	N Calhoun/Bde Maka Ska		$350,000
6d	New gateway monument at W Calhoun entrance	N Calhoun/Bde Maka Ska		$50,000
6e	Pedestrian and bike improvements west of new N Calhoun/Bde Maka Ska land bridge area	N Calhoun/Bde Maka Ska		$250,000
7	**Land bridge connection over Lake Street to Lake of the Isles**	N Calhoun/Bde Maka Ska	**Long**	$39,500,000
7a	Lowering Lake Street to meet bridge clearance	N Calhoun/Bde Maka Ska		$8,500,000
7b	Bridge structure/overpass component	N Calhoun/Bde Maka Ska		$25,000,000
7c	Native restoration	N Calhoun/Bde Maka Ska		$1,500,000
7d	Park amenities	N Calhoun/Bde Maka Ska		$4,500,000
8	**Pedestrian/bicycle circulation improvements at NE Calhoun/Bde Maka Ska and Lakes of the Isles connection**	NE Calhoun/Bde Maka Ska	**Short**	$1,775,000
8a	Gateway sign at triangle property	NE Calhoun/Bde Maka Ska		$75,000
8b	Crosswalks and paths for both peds and bikes at Lake St. and E Calhoun Pkwy	NE Calhoun/Bde Maka Ska		$1,300,000
8c	Improve Pedestrian and Bicycle connection under the Lake St. Bridge and to concessions	NE Calhoun/Bde Maka Ska		$250,000
8d	Remove boat launch and harvester loading area	NE Calhoun/Bde Maka Ska		$30,000
8e	Improve pedestrian circulation along E Calhoun Parkway and drop-off zone	NE Calhoun/Bde Maka Ska		$120,000

No	Project	Location	Priority	Cost
Lake Calhoun/Bde Maka Ska and William Berry, Cont.				
9	**Resolve pedestrian circulation at pinch points and improved lake access points**	Lake Calhoun/Bde Maka Ska	**Short**	$4,945,000
9a	Replace/upgrade existing steps along E Calhoun Parkway	E Calhoun/Bde Maka Ska		$150,000
9b	Replace/upgrade existing steps and add ADA access at 32nd Street	E Calhoun/Bde Maka Ska		$150,000
9c	Improved pier area with added green space at NE Calhoun/Bde Maka Ska	NE Calhoun/Bde Maka Ska		$2,300,000
9d	Improved pedestrian connection along shoreline including boardwalk at NW Calhoun/Bde Maka Ska and E Calhoun/Bde Maka Ska	NW and E Calhoun/Bde Maka Ska		$2,100,000
9e	Informal water access points	Lake Calhoun/Bde Maka Ska		$80,000
9f	Small docks at SW Calhoun/Bde Maka Ska	SW Calhoun/Bde Maka Ska		$165,000
10	**Realignment of W Calhoun Parkway and promenade from Market Plaza**	NW Calhoun/Bde Maka Ska	**Medium**	$5,292,000
10a	Short realignment improvements of W Calhoun Parkway	NW Calhoun/Bde Maka Ska		$1,900,000
10b	Improved bicycle circulation along the new realigned parkway	NW Calhoun/Bde Maka Ska		$150,000
10c	Promenade/woonerf connection from Excelsior Blvd. to W Calhoun Pkwy	NW Calhoun/Bde Maka Ska		$3,000,000
10d	Improved bicycle and pedestrian connection through Market Plaza and from LRT Station	NW Calhoun/Bde Maka Ska		$192,000
10e	Gateway and improved entrance at Market Plaza intersection	NW Calhoun/Bde Maka Ska		$50,000
11	**Pedestrian/bicycle improvements at SW Calhoun/Bde Maka Ska**	SW Calhoun/Bde Maka Ska	**Medium**	$790,000
11a	Improved parking lot and drop-off area	SW Calhoun/Bde Maka Ska		$550,000
11b	Improved bicycle circulation along the parkway	SW Calhoun/Bde Maka Ska		$100,000
11c	Relocate pedestrian circulation near the shoreline	SW Calhoun/Bde Maka Ska		$110,000
11d	Include sidewalk connection at wetlands	SW Calhoun/Bde Maka Ska		$30,000
12	**Pedestrian/bicycle improvements at S Calhoun/Bde Maka Ska and William Berry Area**	S Calhoun/Bde Maka Ska and William Berry Area	**Short**	$3,480,000
12a	New multi-purpose roundabout at 36th Street intersection	SE Calhoun/Bde Maka Ska		$850,000
12b	Improved bicycle and pedestrian circulation along the lakeshore area at S Calhoun/Bde Maka Ska	S Calhoun/Bde Maka Ska		$420,000
12c	Barnes dance crossing improvement at W Calhoun Pkwy and Richfield Rd.	S Calhoun/Bde Maka Ska		$50,000
12d	Add bicycle trail along east edge of William Berry with connection to 36th St bicycle lanes	William Berry and SE Calhoun/Bde Maka Ska		$1,200,000
12f	New pedestrian circulation through William Berry space	William Berry		$320,000
12g	Improved circulation north of William Berry playground area. Includes narrowing of William Berry Pkwy vehicular travel lanes to accommodate improved green buffer and bike trail.	William Berry		$640,000
13	**New trolley stop at William Berry area**	William Berry	**Long/DEPENDENT**	TO BE DETERMINED
	Recreation/Programming/Events			
14	**Not Used**	N Calhoun/Bde Maka Ska		
15	**New boat launch area at NW Calhoun/Bde Maka Ska**	NW Calhoun/Bde Maka Ska	**Short**	$1,000,000
15a	New drop-off area, ADA, temporary parking, and boat trailer parking lot	NW Calhoun/Bde Maka Ska		$750,000
15b	New boat launch, AIS and harvester loading area	NW Calhoun/Bde Maka Ska		$250,000

No	Project	Location	Priority	Cost
Lake Calhoun/Bde Maka Ska and William Berry, Cont.				
16	**Improve park buildings and facilities**	Lake Calhoun/Bde Maka Ska	Medium	$11,700,000
16a	New restroom/changing rooms shelter and storage area at NE Calhoun/Bde Maka Ska	NE Calhoun/Bde Maka Ska		$450,000
16b	New interpretive building OR restroom/changing rooms shelter and storage area at N Calhoun/Bde Maka Ska Area which could also serve Sailing School and Club	N Calhoun/Bde Maka Ska		$1,500,000
16c	New multi-functional building for sailing school, visitor center, restrooms, etc. at NW Calhoun/Bde Maka Ska	NW Calhoun/Bde Maka Ska		$5,000,000
16c-1	Supporting facilities for sailing school along the shoreline (pier and launching space)	NW Calhoun/Bde Maka Ska		$550,000
16c-2	Patio, picnic, and small flexible open space outside of multi-functional building	NW Calhoun/Bde Maka Ska		$200,000
16d	New pavilion with restooms, changing rooms and storage at SW Calhoun/Bde Maka Ska	NW Calhoun/Bde Maka Ska		$1,250,000
16e	Add on-street parking at Richfield Rd and west side of William Berry Parkway	William Berry and S Calhoun/Bde Maka Ska		$150,000
16f	Multi-functional facility for maintenance and other park uses at William Berry area. Includes access drive and small parking area	William Berry		$3,500,000
17	**Improve rental facilities**	Lake Calhoun/Bde Maka Ska	Long	$1,750,000
17a	New location for rental concessions (wheel of fun)	NE Calhoun/Bde Maka Ska		$150,000
17b	Refectory building renovations. Convert restroom into storage area	NE Calhoun/Bde Maka Ska		$1,600,000
18	**Improve recreation amenities**	Lake Calhoun/Bde Maka Ska	Medium	$5,525,000
18a	New playground location at N Calhoun/Bde Maka Ska	N Calhoun/Bde Maka Ska		$500,000
18b	Integrate skateboard space within promenade at NW Calhoun/Bde Maka Ska	NW Calhoun/Bde Maka Ska		$250,000
18c	Improved beach facilities at N Calhoun/Bde Maka Ska	N Calhoun/Bde Maka Ska		$250,000
18d	Improved beach facilities at Thomas beach including universal access	SW Calhoun/Bde Maka Ska		$350,000
18e	New picnic facilities around perimeter of play field area	NW Calhoun/Bde Maka Ska		$500,000
18f	Small picnic facilities at N Calhoun/Bde Maka Ska	N Calhoun/Bde Maka Ska		$200,000
18g	Relocate volleyball courts, amenity/furniture, diversity of picnic areas	SW Calhoun/Bde Maka Ska		$425,000
18h	Add small picnic area adjacent to S Calhoun/Bde Maka Ska parking lot	S Calhoun/Bde Maka Ska		$50,000
18i	New universal access playground and small shelter space at SW Calhoun/Bde Maka Ska	SW Calhoun/Bde Maka Ska		$1,100,000
18j	Improved beach amenities including renovation of 32nd Beach playground area. Integrate nature play activities	SW Calhoun/Bde Maka Ska		$800,000
18k	New adult exercise equipment stations at E Calhoun/Bde Maka Ska	E Calhoun/Bde Maka Ska		$200,000
18l	New small and large picnic facilities at William Berry area	William Berry		$350,000
18m	Improved Archery facilities	William Berry		$550,000
19	**Mixed-use development at former surface parking lot area**	NW Calhoun/Bde Maka Ska	Long/DEPENDENT	TO BE DETERMINED
	Cultural/Historic Resources			
20	**Restoration of WPA walls and historic monuments**	Lake Calhoun/Bde Maka Ska	Medium	$770,000
21	**Overall wayfinding and Interpretation signage**	Lake Calhoun/Bde Maka Ska	Medium	$300,000
22	**Incorporate Cloudman Village interpretation area**	S Calhoun/Bde Maka Ska	Short/On-going	$350,000

No	Project	Location	Priority	Cost
Lake Harriet				
	Water Quality and Natural Resources			
23	**Erosion control, native restoration, stabilization, and enhancements**	Lake Harriet	Short	$500,000
23a	Regrading, address erosion issues	Lake Harriet		$100,000
23b	Restoration of native species and natural habitats	Lake Harriet		$400,000
23b-1	Upland restoration at E Harriet Lower Road	E Harriet		$200,000
23b-2	Upland restoration at N Harriet	N Harriet		$90,000
23b-3	Pollinator gardens and pollinator lawns within sun pockets	N and E Harriet		$30,000
23b-4	Enhanced planting habitat/gardens at the lakeshore including wetland gardens south of rose garden	N Harriet		$80,000
24	**Drainage, stormwater treatment, flooding correction**	Lake Harriet	Short	$640,000
24a	Bio-engineer extension of lake, vegetation filter. Wetland and emergent vegetation improvements at boardwalk and pier areas	N and E Harriet		$100,000
24b	Stormwater infrastructure/outlets improvements at N Harriet, Lower Road, and SW Harriet	N, SW, and E Harriet		$180,000
24c	Existing parking lot improvements/incorporate stormwater BMP's	Lake Harriet		$360,000
	Access and Circulation			
25	**Improved multi-modal circulation at Band Shell area**	Band shell	Short	$3,100,000
25a	New bicycle circulation at W Lake Harriet Pkwy	Band shell		$150,000
25b	New pedestrian promenade north of band shell	Band shell		$275,000
25c	Improved ADA access to Bird's Sanctuary	Band shell		$80,000
25d	Improved pedestrian circulation along the shoreline including boardwalk/pier	N Harriet		$900,000
25e	Two-way circulation segment with roundabout	Band shell		$900,000
25f	Improved west and east parking lots	Band shell		$145,000
25g	Conversion of roundabout to open space/plaza area	Band shell		$275,000
25h	Improve boat launch circulation, boat roundabout, dock, and ADA parking	Band shell		$375,000
26	**Improved circulation at E Harriet/Lower Road**	E Harriet/Lower Road	Short	$380,000
26a	Conversion of lower road to bicycle trail	E Harriet/Lower Road		$120,000
26b	Improved access (steps and ADA ramp) at 44th Street	E Harriet/Lower Road		$80,000
26c	Improvements to Minnehaha Parkway bicycle/pedestrian connection	E Harriet/Lower Road		$60,000
26d	Improve existing steps/access to lake including informal water access points	E Harriet/Lower Road		$120,000
27	**Improved circulation at Lyndale Park/Rose gardens area**	Lyndale Park	Medium	$750,000
27a	Improved bicycle and pedestrian circulation along Roseway Rd connecting to Kings Hwy	Lyndale Park		$220,000
27b	Add on-street parking at SE side of Roseway Road	Lyndale Park		$150,000
27c	Improved connection from Peace garden and parking lot to Rose Gardens	Lyndale Park		$80,000
27d	Integrate raised table crossing between lakeshore area and Rose gardens	Lyndale Park		$200,000
27e	Improve access within peace garden area	Peace garden		$100,000
	Recreation/Programming/Events			
28	**Improve park buildings and facilities**	Lake Harriet	Medium	$4,325,000
28a	New restroom facility N of band shell	Band shell		$375,000
28b	Improve men's restroom building	Band shell		$150,000
28c	Improve AIS facilities	Band shell		$50,000
28d	Improve maintenance area with new multi-use maintenance facility, restrooms, and reorganized exterior storage	Lyndale Park		$3,750,000
29	**Improve rental facilities**	Band shell	Medium	$800,000
29a	Improved rental concessions (wheel fun) space with pier at N Harriet	Band shell		$350,000
29b	Improve food concessions area	Band shell		$450,000
29b-1	Improved seating area and circulation at food concessions	Band shell		$250,000
29b-2	Improve restroom facilities	Band shell		$200,000
30	**Improve recreation amenities**	Lake Harriet	Long	$2,525,000
30a	Expansion of green pier at lakeshore	Band shell		$1,825,000
30b	Improved North beach facilities	N Harriet		$150,000
30c	Restore rose gardens, providing accessible paths and improved amenities including fence	Lyndale Park		$300,000
30d	Informal picnic facilities at band shell east parking lot	Band shell		$50,000
30e	Beard's Plaisance tennis court improvements	SW Harriet		$200,000
	Cultural/Historic Resources			
31	**Restoration of WPA walls and historic monuments**	Lake Harriet	Medium	$170,000
32	**Overall wayfinding and Interpretation signage**	Lake Harriet	Short	$225,000

* Estimate is based on 2017 project costs. A 3 to 5% increase should be considered for every additional year.

Subtotal estimated costs	$100,417,000
Contingency Design and Engineering	$25,104,250
Total estimate costs*	**$125,521,250**

12.7 Rationale for Selection of Projects for CIP Funding Currently Available

The short-term (high) priority projects far exceed the $2.4 million available in current CIP funding. MPRB has decided to direct most of this funding towards trail and access improvements, as well as site amenities that recognize the historical Dakota presence in the area. Both of these initiatives were considered by the CAC to be short-term priority projects. Focusing on them aligns with the community engagement completed for the Master Plan.

Additional reasons for selecting the projects to implement with current CIP funding include:

- The CAC defined Stewardship as one of the guiding principles of the master plan: “Care for what exists before introducing new things. Use current funding to resolve existing problems.”
- 80% of the estimated five million visits to the Minneapolis Chain of Lakes Regional Park are trail visits. The bicycle and pedestrian asphalt trails were constructed in 1997 and the pavement is aging. A Trail Condition Assessment report conducted in 2015 determined that 6700 lineal feet of trails around each lake were in poor to fair condition.
- Access points to the trail system from transit stops, parking, and adjacent neighborhoods are not ADA compliant. Improving and adding accessible entry points into an already accessible trail system benefits all trail users.
- General congestion at NE Calhoun/Bde Maka Ska, the narrow trail on the West Lake St bridge over the channel, and pedestrian/bicycle conflicts were major concerns for the CAC and many survey participants. The City and County were willing partners in the funding and construction of improvements.
- The intersection of parkways and trails at the SE corner of Harriet and those of W Minnehaha Parkway is complex. Eastbound cyclists entering onto an on-street bike lane are at risk of entering traffic lanes.
- Revealing and acknowledging the historical presence of Native Americans--in particular the Dakota and Chief Cloud Man--around the lakes was identified as a short term or high priority by the CAC and the community during the master planning process. In 2016, the MPRB and partners applied to Minneapolis’ Art in Public Places program to celebrate this aspect of the cultural history of the lakes. The project was awarded $225,000. In addition to the Art in Public Places funding, a small portion of the CIP funding will be used for site improvements that will “set the stage” for the art.

SE Harriet Trail and Access Improvements.