

**Roseville Parks and Recreation
Commission Meeting
Tuesday October 1, 2013
6:30 P.M.
Roseville City Hall
2660 Civic Center Drive**

AGENDA

- 1. Introductions**
- 2. Public Comment Invited**
- 3. Approval of Minutes of September 7, 2013**
- 4. Park and Recreation Renewal Program**
 - a. Lexington Park Building**
 - b. Natural Resource & Trails Projects**
 - c. Final Design Process**
 - d. Other**
- 5. Staff Report**
- 6. Other**
- 7. Adjournment**

**Roseville Parks and Recreation
“Building Community through People, Parks and Programs”
www.ci.roseville.mn.us**

*Be a part of the picture...get involved with your City...Volunteer!
For more information, call Roseville Parks and Recreation at 651-792-7006
or check our website at www.cityofroseville.com
Volunteering, a Great Way to Get Involved!*

MEMORANDUM

To: Parks and Recreation Commission
From: Lonnie Brokke
Date: September 24, 2013
Re: Notes for Commission Meeting on Tuesday **October 1, 2013**

1. **Introductions**

Commissioners and staff will be introduced.

2. **Public Comment Invited**

Public participation and public comment is encouraged.

3. **Approval of Minutes of the September 7, 2013 Meeting**

Enclosed is a copy of the minutes of September 7, 2013. Please be prepared to approve or amend.

Requested Commission Action: Approve/amend meeting minutes of September 7, 2013.

4. **Park and Recreation Renewal Program Preliminary Plans and General Discussion**

Lexington Park Building

At your September 7, 2013 meeting you provided advice and guidance to the architecture team on the Lexington Park building image and type. The team took that information along with other information that has evolved to date and developed a proposed final design. The proposed final design was presented to and approved by the City Council on September 16, 2013 and is included in your packet. There was very good discussion at the City Council meeting involving systems and methods (attached is a summary of those items discussed). The City Council approved moving forward with the final design and was also interested in learning more about the systems and methods as we continue.

On Thursday, September 19, 2013 there was a pre-proposal meeting for contractors interested in the Lexington Park building as well as announcing the entire Renewal Program. There was a very good turnout with more than 20 attending. Opinions were sought on the notion of providing the Lexington Park building as an early delivery construction project, receiving mixed reaction. While they indicated that anything can be done, it may make sense from a cost and weather perspective to package it with the rest of the renewal program projects with the plan to start the project in the spring.

Given recent discussions with the City Council, the desire to work more thoroughly and thoughtfully through the building systems and methods and the feedback from contractors at the pre-proposal meeting, it is our plan now to still have an early plan and specifications delivery of the Lexington Park building but package the construction of it with the rest of the Renewal Program with construction in the spring. This will give appropriate time to discuss general building systems and methods further and use it as a guide for the other buildings and shelters in the Renewal Program. This provides everyone time to understand it better and make good, informed choices.

Requested Commission Action: Discuss and provided input/advice.

Natural Resource and Trail Projects

Attached are spreadsheets and cost estimates for the natural resource and trail projects for you to review, discuss and provide input on. The Natural Resources and Trails Subcommittee (NRATS) will be reviewing this at their Thursday, September 26 meeting.

Requested Commission Action: Discuss and provided input/advice.

Final Design Process

The final design and construction packaging for the remaining projects in the Renewal Program are expected to be complete in late November or early December with requests for proposals for construction occurring in January/February. 2014 will be a very active year.

Any additional progress on the Renewal Program will be reported at the meeting. Comments, questions and suggestions from the Commission are welcome and encouraged.

Requested Commission Action: Discuss and provided input/advice.

5. **Staff Report**
6. **Other**
7. **Adjournment**

**ROSEVILLE PARKS AND RECREATION COMMISSION
DRAFT MEETING MINUTES FOR SEPTEMBER 7, 2013
ROSEVILLE CITY HALL ~ 9:00AM**

PRESENT: Azer, Diedrick, Doneen, Gelbach, D. Holt, M. Holt, Simbeck, Stoner, Wall
ABSENT: Boehm notified staff ahead of time about being unable to attend
STAFF: Anfang, Brokke, Evenson
OTHERS: Michael Schroeder from LHB, Tim McILwain and Dan Lawrence from HCM Architects

1. APPROVAL OF MINUTES – AUGUST 6, 2013 MEETING

Commission Recommendation:

Minutes for the August 6, 2013 meeting were approved unanimously.

2. COTTONWOOD HOLDINGS PARK DEDICATION

The commission reviewed the Cottonwood Holdings proposal and discussed the specific Park Dedication requirement.

Commission recommendation: Commissioner Diedrick recommended the Council accept cash in lieu of land dedication for the 5 units at \$3500 per unit for a total of \$17,500 for the Cottonwood Holdings, second by Commissioner Wall. Motion passed unanimously.

3. PARK AND RECREATION RENEWAL PROGRAM

Michael Schroeder from LHB and Tim McILwain and Dan Lawrence from HCM Architects were in attendance to discuss park building designs for Lexington Park, as well as, Autumn Grove, Villa, Oasis and Sandcastle Parks.

- Schroeder briefed Commissioners on site work currently taking place in the parks;
 - Sunde Land Surveying is currently working in the parks
 - American Engineering Testing will begin soil borings in the parks next week. These soil borings will help staff understand conditions to support park buildings. These borings and tests are simple investigative work.
 - HCM Architects will be designing the enclosed buildings as well as working on the restoration work at the Skating Center and the Nature Center. Architects working for LHB will be working on the open shelters in Central Park.

Commission Chair Holt inquired into project signage. Schroeder acknowledged working with staff to make signage happen and help keep the community informed.

- McILwain introduced HCM Architects, a local firm that has designed 94 park buildings in the past 12 years. McILwain commented that smaller commercial park buildings are difficult to cost out; smaller buildings tend to result in higher costs. After refining costs, design professionals are suggesting the Roseville park buildings will cost approximately \$260-\$275/square foot.
 - The goal in design for these buildings is to make them as multi-use as possible.
 - McILwain talked through the process for designing multiple buildings using a system building component that best serve the individual parks.
- McILwain and Lawrence talked through the evolution of design for the building in Lexington Park. Design staff have thoroughly familiarized themselves with the Master Plan and are using this document for guidance.
 - Commissioners inquired into maintenance considerations for building designs as well as the inclusion of special features (ie. Fireplace).
 - McILwain explained the next step is to fully cost out the Lexington building
 - Schroeder spoke to using add-alternates for these special features

- Commissioner D. Holt mentioned interest in the Lexington building as a flagship facility to demonstrate to the community the types of renewal projects they can expect in designated parks.
- McILwain and Lawrence briefly discussed the plans for Autumn Grove, Oasis, Villa and Sandcastle Parks.
 - Design staff are working off the idea that these buildings are gathering spaces that should be beacons that glow with activity and feature spaces that are visual from main access points. Spaces should be dynamic, using lighting that encourages people to wonder what's happening in the park.
- McILwain challenged Commissioners to share their vision for the park buildings using 5 words to describe how these facilities should represent the community.
 - Commissioner Simbeck suggested the following;
 - Welcoming & Warm
 - Inclusive
 - Safe
 - Aesthetically Pleasing & Appropriate
 - Fun (inspiring the feeling of "I can't wait to go to the park")
 - Other Commissioners also suggested;
 - Open & Airy
 - Inviting
 - Good Investment
- The design staff also asked the Commission to weigh in on their impressions of specific architectural styles for the buildings.
 - A classic look representing civic importance
 - Cottage architecture tends to have features that tie into the landscape
 - Contemporary architecture is warm and welcoming
- HCM staff spoke of all of the buildings having similar details and feel, a like type of presence in the park. The buildings need to have a bigger presence; they need a strength of form.
 - Commissioner Gelbach inquired into plans to curtail vandalism.
 - McILwain explained that the Master Plan has sited the buildings for visibility with good potential for supervision.
 - McILwain also talked about lighting considerations and attention to the selection of materials to address vandalism concerns.
 - McILwain commented that by showing care, attention and making the investment lends to people taking care of the facility.
 - These investments demonstrate what the park means to the community.
 - The parks identified for building improvements are surrounded by neighborhoods also contributing to a layer of protection.
 - Commissioner Doneen added the need for consideration to a balance in design between durability and attractiveness, using architectural design/features that do not look like a bunker/shed, creating character without compromising durability.
 - McILwain also added the need to be smart on how we expend funds so that we create volume in the structures
- Additional Commissioner comments on park building designs include;
 - Stoner identified the need to focus on access technology to maximize availability for the community.
- Doneen added that Roseville neighborhoods have strong 50's and 60's style/design ... is there a way of incorporating these iconic figures?

- D. Holt mentioned that the civic style does not normally exude a comfortable feeling. Is there a way of using a timelier articulated architecture that is contemporary in a classic way that fits into the Minnesota setting ☺
- McILwain's final comment was that the HCM staff will work toward an order and rhythm through design that has a public quality.
- Brokke updated the Commission that staff are working through the Lexington Park building using a 5-week time frame. Because of this, the Commission will not see more design drafts before the park proposals go to the Council on September 16. Proposals will be going out based on the upcoming Council meeting.
 - A Best Value Pre-Proposal meeting for Lexington Park is scheduled for September 19.
 - The goal is still to begin work this fall. 2014 will be a BIG year. Staff are working methodically, we do not want to error in any way. Lexington Park will be a real signature piece in our park system.
- Brokke also added that the remaining park plans are on schedule for an 18 week delivery of plans and specs with the Best Value Pre-Proposal meeting scheduled for November.

4. RECAP OF JOINT MEETING WITH THE CITY COUNCIL

- D. Holt updated the Commission on his follow up discussions with Council Members on key topics from the joint meeting.
 - The next step in regards to the Park Board consideration is for the Commission to further explore and discuss the options followed up by a strong recommendation with documented direction for the Council to consider. The Commission will identify time at a future meeting to further discuss PIP/CIP funding along with a soul searching discussion on the Commission's interest in establishing a Park Board.
 - Commissioners further discussed Park Board considerations to help all better understand the background of this item.
 - The Park Board consideration was originally approached due to the volatility of park maintenance and operation funding.
 - Commissioners inquired into the funding history for both PIP and CIP
 - Response included the need to move funding of CIP and PIP forward to support assets – a Park Board operation might be the best solution for supporting the work done through the renewal program.
 - Consideration for a Volunteer Coordinator was discussed with Council Members earlier.
 - Brokke reminded the Commission that the 2014 budget included 3 additional parks and recreation staff positions – 2 of these positions are meant to replace positions that were eliminated in previous years during budget reductions plus a volunteer coordinator to address community response in the Imagine Roseville 2025 document and the Parks and Recreation Master Plan.
 - The City Manager recommended budget does include one parks and recreation position, parkkeeper.
 - Commissioners pointed out how a volunteer coordinator could support the Natural Resources efforts. Council members discussed with Holt the possibility of reallocating bonding funds to fund a natural resources volunteer coordinator.
 - Staff will continue to explore ways to accommodate a volunteer management position within the Parks and Recreation budget.
 - Lastly, Holt spoke to Council representatives about a Council liaison to the Parks and Recreation Commission. Mayor Roe suggested that the Commission may want to

consider scheduling quarterly presentations/meetings within scheduled Council meetings for updates and the sharing of information and ideas.

Traditional Meeting adjourned at 11:00am
Annual Park Tour followed meeting.

Commissioners visited the Press Gym site to help better understand options for the possible acquisition of the property adjacent to Rosebrook Park.

Commissioners also visited Howard Johnson, Oasis and Langton Lake Parks focusing on Natural Resource Management projects. The tour of Langton Lake Park gave the Commission an opportunity to see the impact of June's storm that took down hundreds of park trees and the results of the invasive plant clean-up (Buckthorn) and lake shore restoration projects supported by state funded grants.

Tour adjourned at 1:00pm

Respectfully Submitted,
Jill Anfang, Assistant Director



HAGEN, CHRISTENSEN & MCILWAIN
ARCHITECTS

MEMORANDUM

To: Roseville PRC and
Design Team

From: Tim McIlwain

Date: 9/20/2013

Comm. No: 1353

Subject: Roseville Parks

Copies To: File

Park Renewal Program

Responses to City Council Comments from 9.16.2013 meeting

The following are responses to questions and comments received at the Roseville City Council meeting on 9.16.2013 regarding the final design for the Community Gathering Building at Lexington Park.

1. **The proposed in-floor heating system is redundant with furnace (HVAC) system.**
Response: The in-floor heating is very efficient and provides heat and warm surfaces at the occupied level of the building. The building could be heated and cooled strictly by furnaces but it would not have the same comfort level. The in-floor heat will be bid as an Alternate cost.
2. **The building needs to be current in technology (Wi-Fi, A/V systems, fiber lines).**
Response: The budget for the building may not be able to provide for all the desired technology and systems. The building will be prepped/ready to add those systems in the future.
3. **The building should have remote monitoring and control of doors**
Response: The budget for the building may not be able to provide for all the desired systems. The hardware and wiring for those devices could reach \$2,000 per door. The building will be prepped/ready to add those systems in the future.
4. **The building needs a more durable exterior (i.e. brick/stone).**
Response: The proposed exterior finish is cement-fiber siding (Hardiplank) which is a very durable and easily maintainable (paint) material. Relative costs for exterior finishes are:
Fiber cement siding = \$12.00 /SF
Brick = \$25.00 /SF
Stone = \$40.00/SF
5. **The building should have a metal roof (50 year).**
Response: The relative costs of roofing are:
Laminated Asphalt Shingles (Timberline type) = \$4.00/SF
Wood Shingles = \$8.00/SF
Standing Seam Metal = \$12.00/SF

6. The design should explore clerestory windows

Response: The design team agrees that we need to bring natural light in high in the main gathering space to provide the open and airy feeling desired. The design does combine a vaulted space with windows up high on the side walls. This will deliver natural light up high and be a less costly option than a clerestory structure and much less likely to leak than skylights.

7. The design should explore sustainable systems/concepts (solar, geothermal, etc)

Response: The design team agrees that we need to explore sustainable options and incorporate as many as possible within the budget. Easy solutions to incorporate include:

- Low flow plumbing fixtures
- Light sensors
- LED fixtures
- Certified lumber
- Recycled materials
- Required separation and recycling of construction waste
- Storm water treatment
- Low VOC finishes/materials

Other more costly systems such as solar heating of water will be explored and the building should be prepared to allow those systems to be installed at a future date. Some systems such as geothermal for a building such as this do not make sense financially as the payback is too long.

8. Building spaces and volumes should not be excessive to heat & cool.

Response: The building's vaulted spaces will be created by using scissor style wood trusses that provide for a more modest height but one that is appropriate for community gathering space.



Best Value Overview Presentations

Thursday, September 19, 2013, 2:00pm – 4:00pm (Session #1)

Thursday, November 14, 2013, 9:30am – 11:30am (Session #2)

City Hall Council Chambers (2660 Civic Center Rd., Roseville, MN, 55113)

Summary

The City of Roseville has partnered with Arizona State University to deliver the \$19M Parks and Recreation Renewal Program. The City has used best value (BV) for design and architectural services, and is now preparing to begin the construction phase of the renewal program. Contractors, specialty trades, and other groups are encouraged to attend both best value educational presentations. The presentations will cover:

- Best value process overview; minimizing and managing risk; Questions & Answer session
- Recommendations for preparing a BV proposal
- **Mandatory** pre-proposal meeting for the Lexington Park structure project (September 19 meeting)
- **Mandatory** pre-proposal meeting for the remaining projects (November 14 meeting)

Scope and Timeline

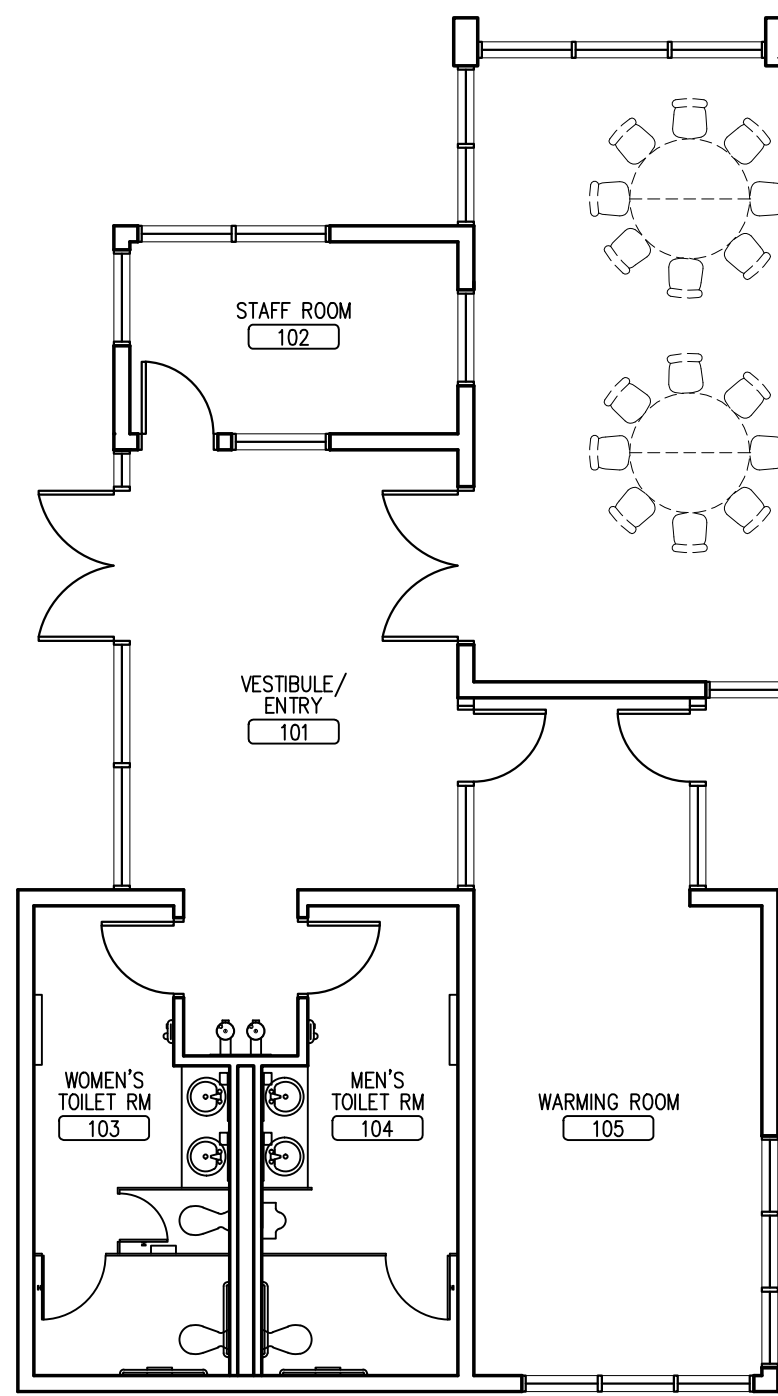
The total construction budget of the renewal program is \$13.475M. While the City expects to award several contracts, it is open to contractor proposals for alternate packaging of work described below. Generally, the City is looking for two delivery timeframes, with the Lexington Park structure and a few smaller specialty projects starting fall of 2013, and the rest of the projects listed below to follow. Project scope is anticipated to include:

- Lexington Park Structure - \$500,000 (early delivery, construction to start Fall 2013)
- Stand alone irrigation - \$220,000
- Stand alone courts – \$600,000
- Stand alone rinks – \$600,000
- Structures and general site work (could include several specialty areas) – \$5,755,000
- Stand alone athletic fields – \$1,300,000
- Specialty projects - \$1,000,000
- Natural Resource projects - \$1,500,000
- Pathways and trails - \$2,000,000

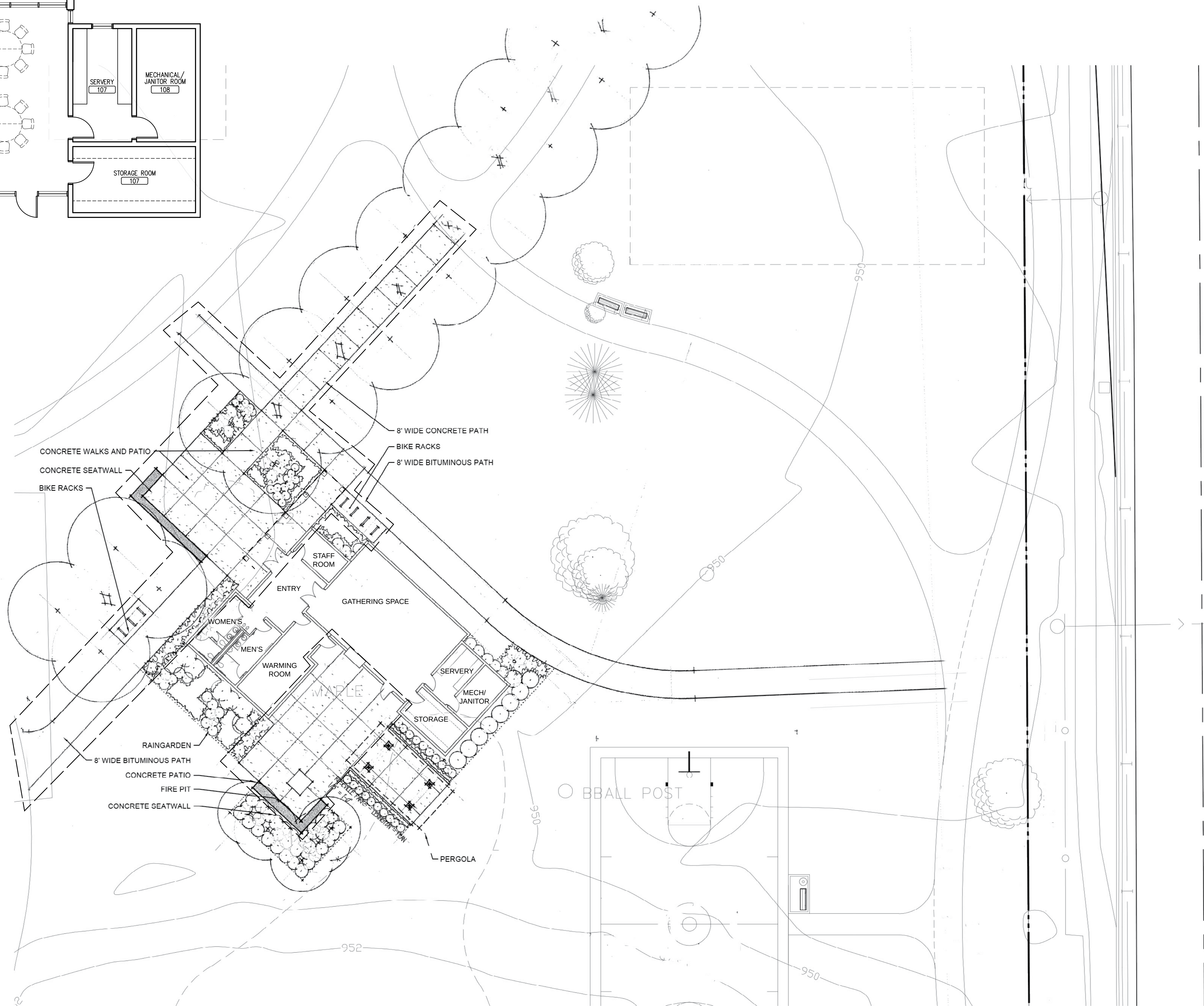
While the attached project summary and timeline represents the City's best estimate on scope, budget, and timeline, proposers should refer to the official RFPs once they are released for final project details.

Questions?

Contact Jeff Evenson at jeff.evenson@ci.roseville.mn.us or 651-792-7107. RFPs will be posted at <http://www.cityofroseville.com/index.aspx?NID=890>. Learn more about the renewal program at <http://www.ci.roseville.mn.us/index.aspx?NID=2243>. See ASU's website (www.pbsrg.com) for information on best value.

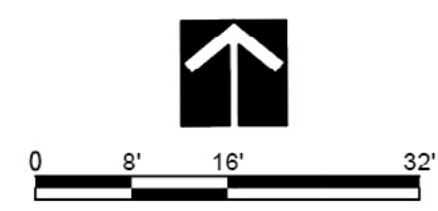


2 FLOOR PLAN
SCALE: 1/8" = 1'-0"



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1 SITE PLAN
Scale: 1/16" = 1'-0"



ROSEVILLE PARKS & RECREATION
2660 CIVIC CENTER DRIVE
ROSEVILLE, MINNESOTA 55113

LHB
PERFORMANCE
DRIVEN DESIGN.
LHBcorp.com
250 3rd Ave. N, Ste 450 | Minneapolis, MN 55401 | 612.338.2029



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1	09/12/2013	FINAL DESIGN
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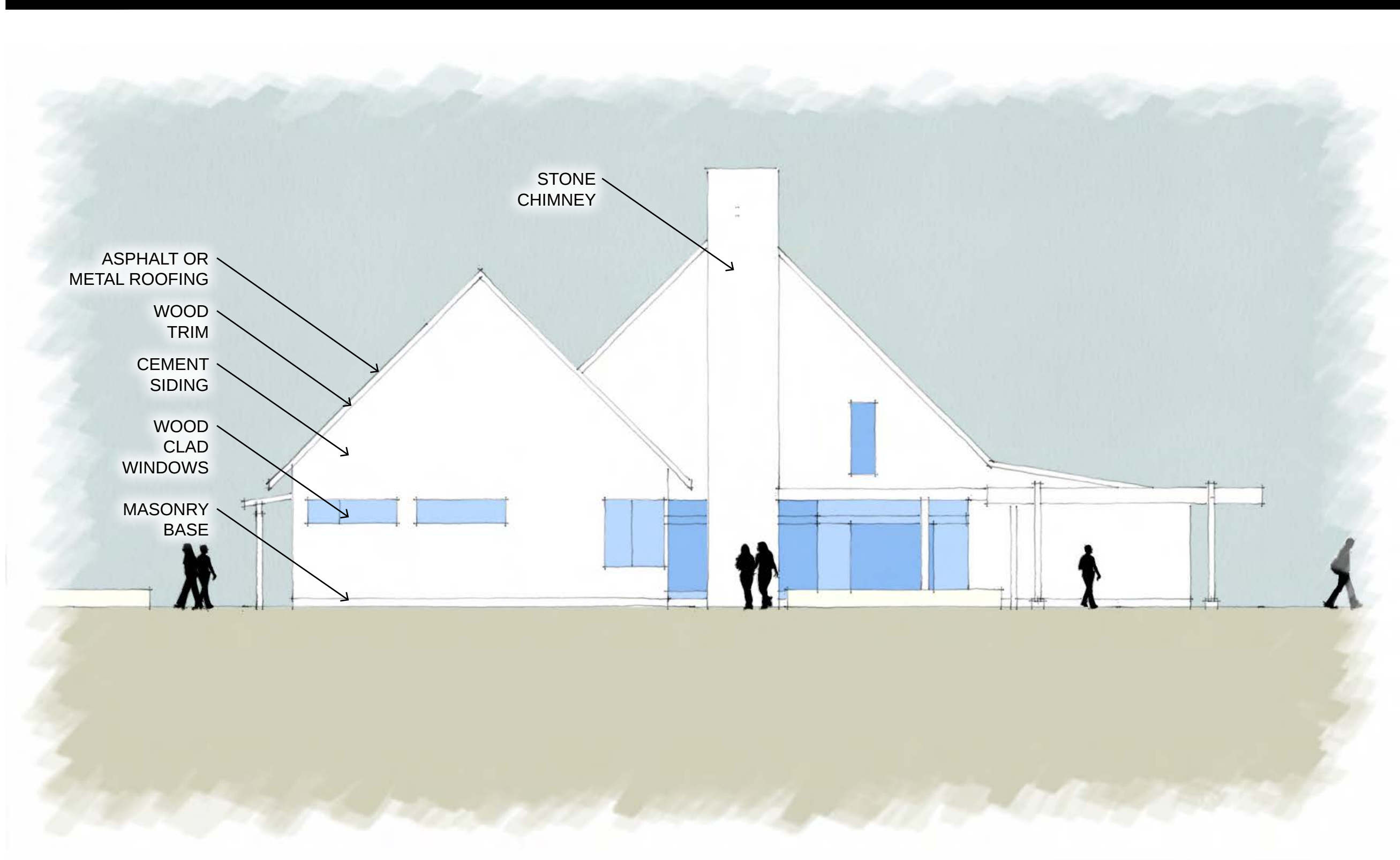
PROJECT NAME:
ROSEVILLE PARK
AND RECREATION
RENEWAL PROGRAM

LEXINGTON PARK

DRAWING TITLE:
FINAL DESIGN

SITE PLAN AND
FLOOR PLAN

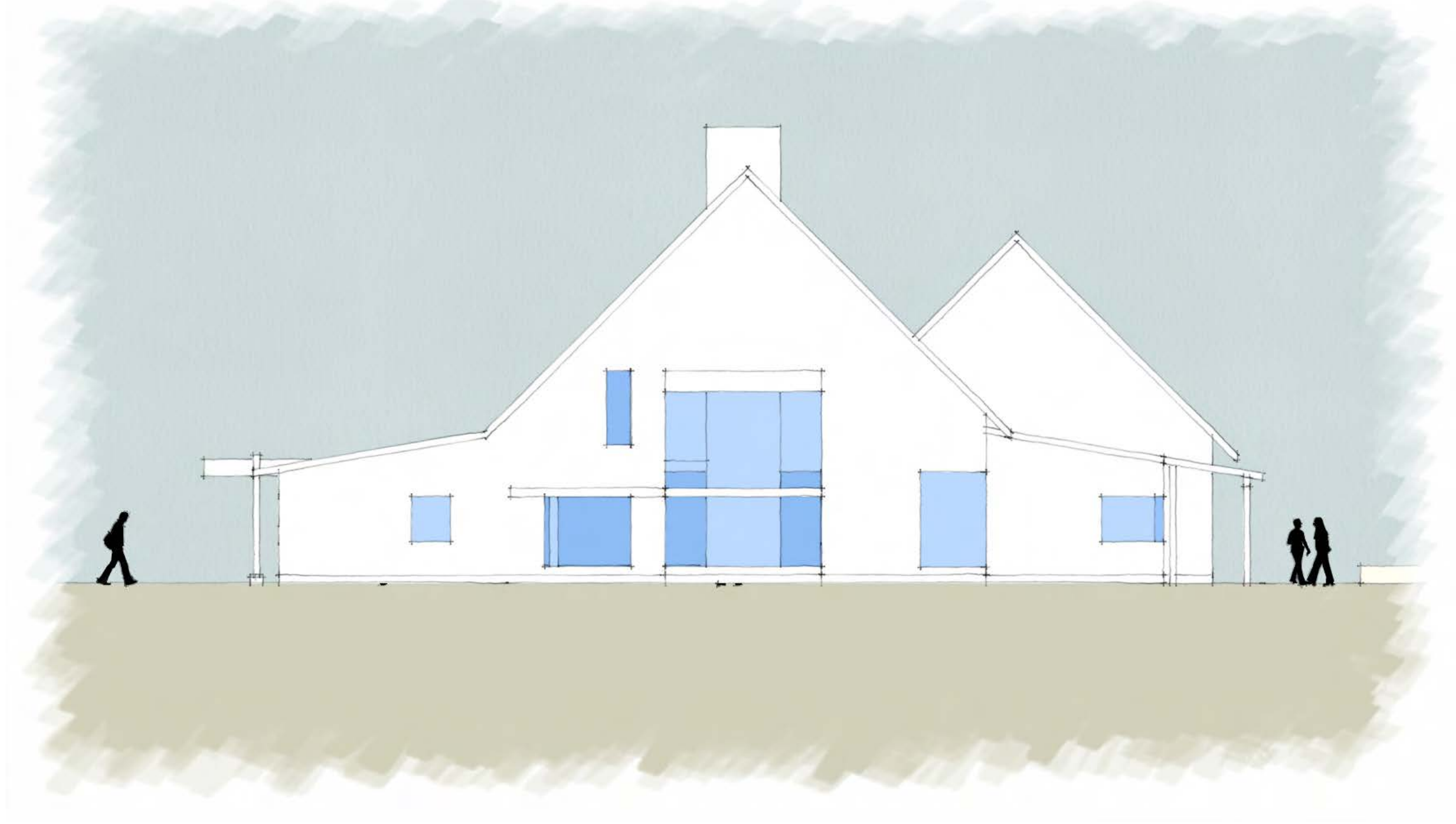
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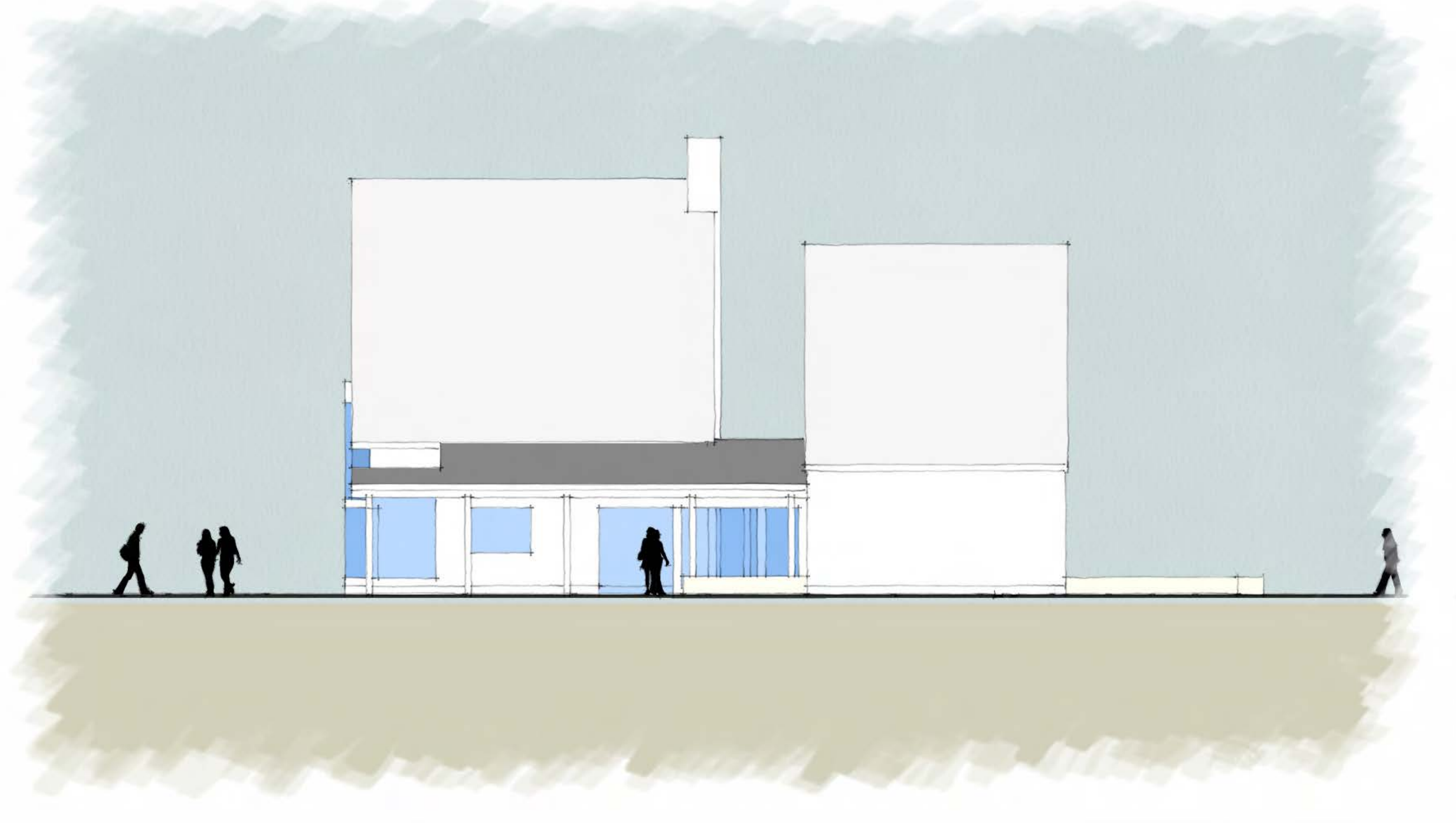
1 SOUTHWEST ELEVATION
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2 SOUTHEAST ELEVATION
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3 NORTHEAST ELEVATION
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4 NORTHWEST ELEVATION
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PROJECT NAME:
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AND RECREATION
RENEWAL PROGRAM
LEXINGTON PARK
DRAWING TITLE:
FINAL DESIGN
ELEVATIONS

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PROJ. NO: 130225
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1 EASTERN BIRDSEYE PERSPECTIVE
NOT TO SCALE



2 NORTHERN BIRDSEYE PERSPECTIVE
NOT TO SCALE



3 WESTERN BIRDSEYE PERSPECTIVE
NOT TO SCALE



4 SOUTHERN BIRDSEYE PERSPECTIVE
NOT TO SCALE



ROSEVILLE PARKS & RECREATION

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PROJECT NAME:
**ROSEVILLE PARK
AND RECREATION
RENEWAL PROGRAM**

LEXINGTON PARK

DRAWING TITLE:
FINAL DESIGN
PERSPECTIVE VIEWS

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
ACORN	SW Parking Lot	Rain garden – Parking Lot	300	Medium-low		X	\$8,400	X	X		N	Rain garden to take Parks parking lot runoff. Somewhat marginal site. Assumes drain tile may be needed.	
ACORN	County Road C – bus stop	Rain garden – Street runoff	450	Medium		X	\$17,100	?	X		N	Rain garden to take street runoff	
ACORN	NW of ball fields	Turf-to-native conversion	~0.1 AC	Medium-low	X	X	\$2,000	X	X		N	Convert turf to mid-height native grass/flower mix	
ACORN	NE side of east ballfield	Infiltration area	0.25	Medium-low		X	\$3,500				N	This would be a turf-to-native conversion in a low area that currently takes runoff	
ACORN	Various	Interpretive signs	5	Medium			\$10,000	X			N	Install interpretive signage at five locations around park, including interpretation of features such as rain gardens, wetland restoration, forest restoration, invasive wetland plants, biocontrol, etc.	
APPLEWOOD PARK	inside corner of trail adjacent to PID 1481	Rain garden - Park runoff	1,800 SF	Medium-high	x	x	\$5,000	X			N	This bioswale planting has become overgrown with weedy brush and forbs. The swale should be actively managed and restored to desirable natives in a mixed planting, or a more formal bed. Cut/treat sandbar willow, spray weeds, supplemental planting and two years of maintenance.	
AUTUMN GROVE	Hamline Ave. east side of tennis courts	Infiltration area	0.25 AC	High		X	\$5,000	X	X		N	Turf-to-native conversion in road ditch, no soil amendment necessary	
AUTUMN GROVE	Along Albert Street	Rain garden – Street runoff	350SF	Medium		X	\$7,700	X	X		N	Rain garden to treat Street Runoff, no underdrain necessary, sandy soil to 26"+. Rain garden size should be further analyzed.	
AUTUMN GROVE	Rain Garden/ Infiltration feature	Interpretive sign	NA	Medium			\$2,000	X			N	Interpretive sign design, manufacture, install	
EVERGREEN PARK	Southwest, along Fairview Ave.	Rain garden	1500	Medium		X	\$42,000	X	X		N	Rain garden would capture and treat runoff from swale along south border of park. Requires Tile.	
EVERGREEN PARK	SW and SE, outside of ball fields	Turf-to-native conversion	0.5 AC	Low			\$2,500				N	Convert turf to native plantings, estimated 0.5 acres, total. Spray 2X, native seeding, two years of grow-in maintenance.	
HOWARD JOHNSON	Rain Garden, NE side of north parking lot.	Rain garden - Parking lot	450	Medium-high		X	\$17,100	X	X		N	Rain garden would likely require a drain tile.	
KELLER MAYFLOWER	Along Fernwood	Rain garden - Street runoff	900	Medium		X	\$25,200	X	X		N	Rain gardens (up to 3) could be developed along Fernwood Ave. These could be integrated into park signage. Cost assumes 2 RWG.	
KELLER MAYFLOWER	on east/SE side of current pond buffer	Turf-to-native conversion	0.25	Medium			\$2,000				N	Plant Buffer around existing natural area	
LADYSLIPPER	along south side of trail, south of Owasso Blvd	Turf-to-native conversion	0.75 AC	Medium	X	X	\$3,000	X	X		N	Estimated total of .75 acres	
LANGTON LAKE	County Road C2, as well as north side of Lydia Avenue	Rain garden – Street runoff	2900	Medium		X	\$81,200	??	X		N	Anticipated to include one large rain garden at the south side of the circle where Arthur and CR C2 meet, as well as at least one (potentially two) rain gardens on the north side of Lydia. All require drain tile. Cost Assumes 3 RWG.	
LANGTON LAKE	South side of the intersection of Arthur and CR C2, east of paved park trail	Turf-to-native conversion	0.5 AC	Medium	X		\$2,500	X			N	Convert turf area to savanna grasses, sedges and flowers. Treat turf with herbicide 2X, native grass, sedge, and flower seed, plus two years of grow-in maintenance.	
LANGTON LAKE	Various	Interpretive signage	5 signs	Medium			\$7,500	X			N	Includes design, manufacture and installation. Signs may address natural history topics such as woodland ecology, woodland wildlife, wetlands, shallow lakes, urban natural areas, plant identification, etc.	

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
LEXINGTON	Four potential locations in park	Turf-to-native conversion	1 AC		X	X	\$5,000	X	X		N	Estimated total acres. Includes basic turf-to-native conversion, as well as expansion of a pre-existing landscape feature, the latter of which will be incorporated into a park redevelopment project Plan & Spec.	
LEXINGTON	Rain garden renovation	Rain garden - Parking lot	1 AC	Medium	X	X	\$5,000	X	X		N	East of parking lot, renovate existing rain garden to improve aesthetics (functionality appears to be reasonable?). To be taken care of as part of park redevelopment (non-NR related)	
LEXINGTON	Five potential locations within park. Four along Lexington Ave., and one on SW side	Rain garden - Street runoff	1800	Medium		X	\$50,400.00	X	X		N	Potential CWP grant opportunity. Budget for four rain garden locations within park	
PIONEER	Under open-grown bur oaks, slope on back side of Zuettel Memorial flower gardens	Turf-to-native conversion	0.25 AC	Medium-low	X		\$3,500	X			N	Treat turf 2x, native seeding, native flower/grass plugs, mulch/ESC, two years of grow-in maintenance.	
PIONEER	SW side of park, along Chatsworth Avenue	Rain garden - Street runoff	250 SF	Medium-low		X	\$9,500.00	X	X		N	Requires drain tile.	
RESERVOIR WOODS	West side of new SPWW tank	Native plant community reconstruction	2 AC	Low	X		\$10,000	X	X		N	Currently, the St. Paul WaterWorks has crushed concrete aggregate piles west of their new storage tank. The disturbed area could be reshaped after aggregate is removed, topsoiled and seeded to a native grass and flower seed mix with the long-term goal of prairie, savanna, or native hardwood forest.	
RESERVOIR WOODS	Various	Interpretive Signage	5??	???			\$25,000				N	Potential for interpretive signs that could address forest ecology, urban green space, wetland ecology, prairie ecology, forest ecology or similar. Cost would include design, manufacture and installation.	
RESERVOIR WOODS	SW corner of parking lot at Alta Vista and Stuber Dr.	Rain garden - Parking lot	300SF	Medium		X	\$11,400	X	X		N	A rain garden just off the SW side of the parking area would treat runoff from the parking lot and SPWW access road.	
ROSEBROOK	NE side of North parking lot	Rain garden - Parking lot	450 SF	Medium		X	\$17,000	X	X		N	Rain garden with retaining wall and drain tile.	
ROSEBROOK	SE side of North parking lot	Rain garden - Parking lot	450 SF	Medium		X	\$12,600	X	X		N	Rain garden with drain tile.	
ROSEBROOK	Park building - new	Rain garden - Roof	450 SF	Medium		X	\$12,600	X	X		N	Rain garden(s) to treat roof runoff for new park building. Requires drain tile.	
SANDCASTLE	Southeast side of entrance trail off of Stanbridge Street	Turf-to-native conversion	0.1 AC	Medium	X		\$7,500	X			N	Concept plan calls for wildflower walk. Estimated cost is for low maintenance native grass/flower seeding and flower plug planting with interpretive sign on trail side of seeding	
SANDCASTLE	Rain garden off of Patton Road, near current parking lot entrance	Rain garden - Street runoff	450 SF	Medium		X	\$12,600				N	Concept plan calls for abandoning of existing parking lot/entrance off of Patton Rd. This area may be suitable for a rain garden with a drain tile.	

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
TAMARACK	SE side of park	Rain garden	200 SF	Low		X	\$11,400	X			N	Currently, this area ponds water and would be suited to conversion to rain garden. There is a pre-existing plastic tile line that empties out to the south along the slope down to the wetland. This project may be best tied to other park redevelopment.	
VILLA	Parking lot near ice sheets along Cohansey Avenue	Rain garden - Parking lot	900	Medium		X	\$19,800	X	X		N	Potentially part of park redevelopment. Some spots in park have sandy soil. Assumed no tile needed.	
VILLA	Street runoff from Cohansey Avenue	Rain garden - Street runoff	1000	Medium-low		X	\$28,000	X	X		N	Adjacent to woodland area, take street runoff, treat and overflow into wetland to west. Tile discharge to wetland.	
Total New Projects							\$485,000						

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
CENTRAL PARK DALE EAST	CP-U4	Woodland/Forest Restoration	7.5	Medium	X		\$45,000	X	X		Y	Cut/treat invasives, native seeding, Rx burn, follow-up treat invasive brush	1
CENTRAL PARK DALE EAST	CP-U5	Prairie Reconstruction	0.3 AC	High	X		\$4,000	X			Y	Educational/interpretive prairie at HANC. Area needs supplemental seeding, plug planting, Rx burns for 2 years in a row and spot invasive weed treatment for 2 years.	1
CENTRAL PARK DALE EAST	HANC Prairie/ Woodland plantings	Interpretive Signage	5??	???			\$25,000				Y	New interpretive signs for prairie and woodland gardens? Is this covered in other areas???	1
CENTRAL PARK DALE EAST	CP-W1	Wetland Restoration	35.5	High	X	X	\$125,000 - \$200,000	X	X		Y	Cost varies, depending on the level of study necessary for study/implementation of hydrologic (water level) restoration. Hydrologic restoration should occur before/simultaneously with vegetative restoration and management of excessive nutrients from the City compost facility. Bioreleases for purple loosestrife, fall spray for Reed Canary Grass by aerial application (helicopter w/ microfoil boom?). This is a high priority site because it is part of the HANC interpretive programming/facility.	1
CENTRAL PARK DALE EAST	Compost Facility	Water quality improvements	675 LF, 2 RWG	HIGH		X	\$70,000	??			Y	Construction of BMPs to stop/mitigate nutrient-rich runoff from compost piles to HANC wetland. Proposed approach include diversion/treatment swale and 2 RWG and site clean-up. Additional analysis and design to determine if feasible - \$17,000.	1
CENTRAL PARK LEXINGTON	CP-U1	Woodland/Forest Restoration	2.75 AC	Medium-high	X		\$20,000	X	X		Y	Cut/treat invasive, nonnative shrubs (and select nonnative/invasive trees), prescribed burn of select areas, supplemental native seeding, follow-up treatment of invasives for two years. Includes restoration of areas between trails on north side of Bennett Lake.	1
CENTRAL PARK LEXINGTON	CP-U2	Woodland/Forest Restoration	2.5 AC	Medium-high	X		\$6,000/ AC	X	X		Y	Cut/treat invasive, nonnative shrubs (and select nonnative/invasive trees), prescribed burn of select areas, supplemental native seeding, follow-up treatment of invasives for two years.	1
CENTRAL PARK LEXINGTON	Bennett Lake Shoreline	Shoreline restoration	.25 AC	Medium-high	X	X	\$10,000	X	X		Y	Treat reed canary grass 2X in select buffer areas accessible by equipment, prescribed burn, native seeding, plug planting, goose protection fencing two years of grow-in maintenance. Estimated average 20' width X ~600 LF	1
CENTRAL PARK LEXINGTON	Frog pond buffer management/ expansion	Shoreline restoration	1 AC	Medium-high	X	X	\$10,000	X	X		Y	Manage existing buffer restoration (cut woody spp., spot treat, prescribed burn, supplemental seeding, and maintenance. Expand native plantings to the east, convert ~.75 ac. of turf-to-natives (spray, spray, seed, 2 years grow-in maintenance)	1
CENTRAL PARK LEXINGTON	Bennett Lake	Lake Restoration	28 ac	Medium-high	X	X	\$42,000	X	X		Y	Map and treat curly leaf pondweed for 3 years, apply for MN DNR AIS treatment grant. THIS EFFORT SHOULD OCCUR IN CONCERT WITH MANAGING WATER QUANTITY/QUALITY WITHIN THE BROADER WATERSHED. Total lake area ~ 28 AC	1
CENTRAL PARK LEXINGTON	Bennett Lake	Stock piscivorous fish	Lake	Medium-high			\$0				Y	Coordinate potential stocking with/by MN DNR to reduce number of small fish that feed on zooplankton. Fish may also be purchased and released from private hatchery with permit.	1

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
CENTRAL PARK LEXINGTON	Bennett Lake	Alum treatment	Lake	Medium-low			\$40,000				Y	Alum treatmeent should only be considered after other water quantity/quality projects are implemented in the watershed. Estimate from NRMP	1
CENTRAL PARK LEXINGTON	Bennett Lake	Shoreline restoration	300 LF	Medium	X	X	\$54,300				Y	Assume 300 LF X 20 FT wide (average) w/toe protection.	1
CENTRAL PARK NORTH	CP-W8, W9, W10, W11	Wetland Restoration	9.5 AC	Low	X		\$38,000	X	X		Y	This is a large wetland complex between CR C and Lake Owasso. Management of invasives would be the highest priority, although there would likely be limited return on investment for restoration effort (unlikely to significantly reduce purple loosestrife or reed canary grass). Best opportunity is likely through additional biocontrol release for purple loosestrife.	1
CENTRAL PARK NORTH	Upland on east/west of large wetland	Woodland/Forest Restoration	5.6 AC	Low	X		\$33,600	X			Y	Potential management activities could include cut/treat of invasive woody plants, treat invasive herbaceous plants, supplement enrichment of native grasses and forbs.	1
CENTRAL PARK NORTH	SW side of Lake Owasso	Woodland/Forest Restoration	2 AC, est	Low	X		\$12,000	X			Y	Area includes semi-open woodland/grassland dominated by nonnatives. This site is a relatively low priority, from an ecological perspective.	1
CENTRAL PARK NORTH	SW side of Lake Owasso	Wetland Restoration	5-15 AC, Est.	Low	X		\$45,000	X				Area includes narrowleaf cattail and purple loosestrife, as well as reed canary grass. Restoration of native vegetation through active management likely difficult and may not be effective.	1
CENTRAL PARK VICTORIA EAST	CP-U3	Woodland/Forest Restoration	13.8 AC	Medium	X		\$82,800	X	X		Y	Includes some smaller, narrow areas outside of the original area mapped as CP-U3 in the Parks NRMP. Cut/treat invasives, native seeding, follow-up treat invasives	1
CENTRAL PARK VICTORIA EAST	CP-W2, W3, W4, W5	Wetland Restoration	24.3	Low	X		\$50,000	X	X		Y	These areas could potentially be reviewed (further study) for hydrologic restoration, as well as vegetative restoration. However, these wetland areas may have minimal opportunity for significant improvement given constraints of existing recreational features in park, and with neighboring yards/residences. Need to determine feasiblity of work - requires some survey - \$12,500.	1
Central Park Total							\$581,700						
LANGTON LAKE	Previously managed woodland areas. LL-U1, LL-U3	Woodland/Forest Restoration	???	High	X		\$20,000	X	X		Y	Inlcudes current project, partially funded by MN DNR CPL grant. Budget amount does not includEstimated 20 acres. Estimated \$1,000/ac for two years	2
LANGTON LAKE	LL-U2, LL-U3	Woodland/Forest Restoration	10 AC est.	Medium	X		\$60,000	X	X		Y	Management of new woodland areas. Estimated 10 acres. Estimated \$6,000/ac for two years.	2
LANGTON LAKE	LL-W1	Wetland Restoration	0.1 AC	High	X	X	\$15,000	X			Y	Hydrologic and vegetative restoration of drained wetland. Spray reed canary grass, restore original outlet elevation. Construction cost may require combining with Acorn Wetland Restoration to meet cost.	2
LANGTON LAKE	Shoreline restoration	Shoreline restoration	~50LF	High	X	X	\$20,000	X	X		Y	Includes area already funded by CPL. No additional shoreline restoration areas are noted at this time.	2
Langton Lake Total							\$115,000						
RESERVOIR WOODS	RW-U1, RW-U5, RW-U7	Woodland/Forest Restoration	34	High	X		\$204,000	X	X		Y	NATIVE FOREST: Invasive brush management, invasive herbaceous vegetation management, supplemental native seeding of 10 acres, two years of ongoing invasive/nonnative treatment. With exception of RW-U5, these areas have not been previously managed. These areas will require intense management.Includes area west of Victoria.	3

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
RESERVOIR WOODS	RW-U3, RW-U4, RW-U6	Woodland/Forest Restoration	41 AC	Medium-high	X		\$123,000	X	??		Y	ADVENTIVE/PLANTED FORESTS: Invasive brush management, invasive herbaceous vegetation management, supplemental native seeding of 10 acres, two years of ongoing invasive/nonnative treatment.Avg estimated cost, \$3,000/ac., including previously managed areas.	3
RESERVOIR WOODS	RW-U2	Prairie/Savanna Restoration	10.5 AC	High	X		\$68,250	X	X		Y	This area is the last, best remaining prairie/ savanna remnant in Roseville. It has become significantly overgrown in the last 50 years and will require extensive work to restore, including: invasive brush/tree cut/treat, prescribed burning, supplemental native seeding and 2 years of grow-in maintenance. Estimated \$6,500/ac.	3
RESERVOIR WOODS	RW-W2	Wetland Restoration	8.1 AC	High	X		\$32,400	X	X		Y	This wetland is among the top quality wetlands in Roseville's park system. Management work should include cut/treat of invasive brush during winter time, spot treatment of reed canary grass in early summer and fall for two years, as well as biocontrol release for purple loosestrife. Recommended that work occurs for 2-3 years. May be a candidate for grant funding.	3
RESERVOIR WOODS	RW-W1	Shoreline restoration	0.25 AC	Medium	X	X	\$25,000	X			Y	Manage reed canary grass/invasive on shoreline buffer, seed/plant native buffer and emergent plants, install/maintain goose protection fencing, two years grow-in maintenance. Estimated 1,950 feet of total buffer length X an estimated average 50 foot width of shore buffer.	3
Reservoir Woods Total							\$452,650						
VILLA	VL-U1, VL-U2, VL-U3, and adventive woodland areas elsewhere in the park	Woodland/Forest Restoration	22 AC	Medium-high	X		\$132,000	X	X		Y	Woodland has historically supported breeding pair of red-shouldered hawks, a stat-listed species. Woodland restoration would benefit natural areas quality and wildlife. Cut/treat invasive trees and shrubs, treat invasive/nonnative herbaceous species, potentially native seed, two years of maintenance activities. Est. \$6,000/ac.	4
VILLA	VL-W1	Wetland Restoration	~ 3 AC	Medium-high	X	X	\$25,000	X	X		Y	This project is being included in the event that the hydrologic/vegetative restoration of this wetland basin is not included in the work being conducted with the Capital Region Watershed District. Work may include tile location/disablement and management of invasive, nonnative herbaceous vegetation (i.e. purple loosestrife and reed canary grass)	4
Villa Total							\$157,000						

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
LADYSLIPPER	East side of wetland, north of Owasoso Blvd	Woodland/Forest Restoration	1 AC	Low	X		\$6,000	X			Y	Cut/treat invasive, nonnative shrubs. This is relative low priority due to proximity to residential lots, poor accessibility.	5
LADYSLIPPER	Wetland	Wetland Restoration	~10 AC	Very low	X			X			Y	Manage narrow-leaf cattail and other potential invasives.	5
Ladyslipper Total							\$6,000						
OASIS	Multiple locations around park	Woodland/Forest Restoration	3.8 AC	Medium	X		\$22,800	X			Y	Invasive cut/treat, reintroduce native woodland grasses and flowers where possible, two years of follow-up treatments.	6
OASIS	NE side of park, CR C2 cul de sac	Shoreline restoration	225 LF	Medium-high	X	X	\$29,925	X	X		Y	Between proposed boardwalk/trail and lake shore. Potential CWP and/or watershed project. Approximately 225 LF of shoreline	6
OASIS	Outlet channel, East side	Stream restoration	0.3 AC. 320 LF est.	Medium-high		X	\$15,000	X			Y	Improvements to stream outlet infrastructure/riffles and vegetative restoration to improve both stability and water quality. Requirs hyrologic anaysis and additional analysis to determine if feasible - \$8,000	6
Oasis Total							\$67,725						
ACORN	Woodland/Forest AC-U1, AC-U2, AC-U3	Woodland/Forest Restoration	25 AC	High	X		\$150,000	X			Y	Cut/treat invasives, native seeding, Rx burn, follow-up treat invasive brush. Approximately 24.7 acres.	7
ACORN	AC-W2	Wetland Restoration	0.25 AC est.	High to medium	X	X	\$15,000	X	X		Y	Hydrologic (ditch block), vegetation management. Could qualify as a water quality project (increase storage/treatment). Construction cost estimate requires to be combined with Langton Wetland Restoration Project.	7
ACORN	AC-W5	Wetland Restoration	5 AC	Low	X		\$25,000				Y	Manage purple loosestrife with biocontrol, invasive vegetation management (RCG & glossy buckthorn) in areas mapped as wet meadow and willow swamp (MLCCS): total estimated 5 acres	7
ACORN	AC-W1	Wetland Restoration	4 AC est	Low	X		\$2,500	X			Y	Purple loosestrife biocontrol release	7
ACORN	Between disc golf fairways	Prairie Reconstruction	2 AC	Medium	X		\$4,000	X	X		Y	Treat nonnatives, burn, interseed natives	7
Acorn Total							\$196,500						
APPLEWOOD OVERLOOK	Slope of pond	Prairie/Savanna Restoration	0.75 AC	Medium	X	X	\$12,000	X	X		Y	Cut/treat invasive nonnatives and select trees, chip/remove from site, site prep herbicide x2, native seeding, 2 years of grow-in maintenance. Low potential, but may be funded by CWL fund and/or watershed as buffer restoration.	8
APPLEWOOD PARK	East border	Woodland/Forest Restoration	0.25 AC	Low	X		\$10,000	X			Y	Cut/treat invasive woody brush/trees, chip/remove, selective thin to favor native hardwood trees, spray ground layer x2, native seeding & 2 years grow-in maintenance.	8
Applewood Total							\$22,000						

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
AUTUMN GROVE	SE Park sign	Native landscaping	250SF	Low			\$1,000	X			Y	Convert plantings around sign to formal native landscaping	8
Autumn Grove Total							\$1,000						
KELLER MAYFLOWER	Pond Buffer	Pond Buffer Restoration	.6 AC	Medium			\$6,000				Y	Cut/treat invasive brush and invasive weeds, remove SOME coarse woody debris, seed/plant natives in woodland edge and in seasonal wetland itself. This is a small area with limited benefit, ecologically.	9
Keller Mayflower Total							\$6,000						
HOWARD JOHNSON	Pond Buffer	Pond Buffer Restoration	2.8 AC	Medium	X	X	\$16,800	X			Y	Manage pond buffer (cut/treat invasives, restore native vegetation) and management/plant wetland edge/emergent wetland vegetation. Two years of ongoing management. Estimated cost \$6,000/ac.	10
Howard Johnson Total							\$16,800						
WILLOW POND	All woodland areas	Woodland/Forest Restoration	7 AC	Medium	X		\$52,500	X			Y	Cut/treat invasives (very thick), native woodland seeding, potential planting of native bare root tree stock, 2 years grow-in maintenance. Est. \$7,500/ac. Not likely a good candidate for grant funding due to lack of pre-existing native habitats.	11
WILLOW POND	Wetland in north arm of park	Wetland Restoration	0.9 AC	Medium-low	X		\$7,500	X			Y	This wetland is dominated by the nonnative reed canary grass, as well as the native river bulrush. Treatment of reed canary grass may or may not result in significant improvement in the quality of the vegetative community at this site.	11
WILLOW POND	Northeast shoreline area	Shoreline restoration	0.5 AC	Medium-high	X	X	\$35,000	X	X		Y	Shoreline restoration in this area would provide a high profile restoration with reasonably high opportunity for success. Cost also includes design, manufacture and install of interpretive sign (\$5K). Cost includes native vegetative restoration along shoreline with primarily seeding. Installation of plant plugs would require additional cost.	11
Willow Pond Total							\$95,000						

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
MATERION	All woodland areas	Woodland/Forest Restoration	10 AC	Medium	X		\$75,000	X			Y	Work to include cut/treat of invasive, nonnative shrubs and select nonnative trees (release cuts for desirable native trees), native seeding. Lack of pre-existing quality native plant communities makes this site a relatively poor candidate for outside habitat restoration funding. Due to the prevalence of invasive, nonnative species at all structural layers, natural areas restoration of this park will require a significant effort.	12
Materiion Total							\$75,000						
COTTONTAIL PARK	Entire park	Woodland/Forest Restoration	7.75 AC	Medium-low	X		\$62,000	X			Y	This nonnative, invasive-dominated woodland is in severely degraded condtion and will require extensive management to improve in native species composition, habitat value and overall structure/function. Cut/treat invsive shrubs and select nonnative trees to release desirable native trees (it is not practical to consider cutting all Siberian elm here), Rx fire, native seeding, plant native hardwood bare root seedlings, 2 years follow-up management/maintenance. Est. \$8,000/ac.	13
Cottontail Park Total							\$62,000						
OWASSO HILLS	Throughout upland areas	Woodland/Forest Restoration	3.5 AC	Medium-high	X		\$21,000	X			Y	Includes some areas of remnant prairie/savanna, as well as disturbed woodland restoration. Cut/treat invasive trees/shrubs, treat invasive nonnative herbaceous vegetation, Rx burn of area between trail and RR tracks, native seeding, two years of maintenance	14
OWASSO HILLS	Wetland area to NW of play structures	Wetland Restoration	0.25 AC	Medium-high	X		\$4,500	X			Y	This project primarily involves management of invasive, nonnative reed canary grass with supplemental native seeding/plantings of native sedges, grasses, flowers.	14
OWASSO HILLS	Storm pond buffers	Wetland Restoration	1 AC	Medium-low	X	X	\$9,000.00	X			Y	Relatively low priority project to manage invasive, nonnative reed canary grass and seed/plant native grasses, sedges and flowers.	14
Owasso Hills Total							\$34,500.00						

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
PIONEER	Woodland areas	Woodland/Forest Restoration	2.3 AC	Medium	X		\$13,800	X			Y	Invasive cut/treat, reintroduce native woodland grasses and flowers where possible, two years of follow-up treatments. This site was significantly disturbed in the past, but is an important extension of the natural areas in Reservoir Woods.	15
Pioneer Total							\$13,800						
POCAHONTAS	unmaintained areas on east side of park	Woodland/Forest Restoration	1.5	Medium-low	X		\$10,000	X			Y	This forest restoration would be a little different than other parks. The area is relatively open with a herbaceous layer dominated by nonnative grasses and invasive weeds. This area would be difficult to restore to prairie. Preferred route would be to cut/treat select invasive trees and shrubs, and then heavily stock area with desirable native hardwood bare root tree seedlings. Includes 2 years of grow-in spot treatment of invasives,. Assumes 12-18" bare root stock planted at ~600 tree seedling per acre (also assumes ~50% loss). Planting 40 - #5 pot trees/ac. with mulch and watering would cost approximately the same amount. Converting herbaceous layer to all natives not recommended due to high cost and low chance for success	16
POCAHONTAS	SE side	Wetland Restoration	.25 AC	Low	X		\$7,500	X			Y	This project would primarily be managing reed canary grass and attempting to convert to natives. Wetland appears to have significant water level bounce. This project would have a low probability of success and is therefore not recommended.	16
Pocahontas Total							\$17,500						
VALLEY	All woodland areas	Woodland/Forest Restoration	4.5 AC	Medium	X		\$27,000	X			Y	For the most part, this forest is significantly disturbed and included recently developed forest as well as remnant oak forest that has been disturbed by past filling and/or encroachment. Activities include cut/treat of invasive species, native seeding, reforestation of west side of south storm pond.	17
VALLEY	Downstream Storm Pond	Wetland Restoration	1 AC	Medium		X	\$9,000	X	X		Y	Install and maintain native emergent and shoreline buffer vegetation, including protective fencing and grow-in maintenance.	17
Valley Total							\$36,000						
TAMARACK	All woodland areas	Woodland/Forest Restoration	4.2 AC	Medium	X		\$25,200	X			Y	Plant communities at this site are adventive and relatively degraded, but provide valuable continuity with the Ramsey County wetland mitigation site and other city-owned sites further west/northwest. Work would include invasive brush/tree management, herbaceous invasive/nonnative management. Not likely a good candidate for a grant	18
Tamarack Total							\$25,200						

ROSEVILLE PARKS RENEWAL PROGRAM - NATURAL RESOURCE PROJECTS													
Park	Location within park	Type	Size	Est. Priority	Type		Project cost estimate		Funding		Maintenance	Comments	Rank
			AC, SF or LF		Habitat	Water quality		PRRP	Grant	Other			
ROSEBROOK	East boundary, along Snelling Avenue	Wetland Restoration	1 AC	Low	X		\$7,500	X			Y	Treat invasive herbaceous plants and restore native vegetation to wetland and wetland edge areas between trail and MnDOT right-of-way	19
ROSEBROOK	South boundary	Woodland/Forest Restoration	0.2 AC	Low	X		\$3,000	X			Y	Cut/treat invasive brush, spray invasive herbaceous vegetation, seed native woodland grasses andflowers, 2 years of grow-in vegetation management	19
Rosebrook Total							\$10,500						
AUTUMN GROVE	Along Hamline Ave., north of tennis courts	Woodland/Forest Restoration	1.1 AC	Medium	X		\$6,500	X			Y	Cut/treat invasives, native seeding, follow-up treatment of invaisives for two growing season	20
Autumn Grove Total							\$6,500						
WOODHILL	East side of	Woodland/Forest Restoration	1.6 AC	Medium	X		\$10,000	X			Y	East side of road is 1.6 acres, west side of road is 1.3 acres. Woodland restoration needed on east side of road. Cost assumes work to occur only on east side of Western Ave.	21
Woodhill Total							\$10,000						
EVERGREEN PARK	South border	Woodland/Forest Restoration	0.1 AC	Low	X		\$1,500	X			Y	Cut/treat invasive brush. This is a small area with limited benefit, ecologically.	22
Evergreen Total							\$1,500						
TOTAL INVASIVES / RESTORATION PROGRAM							\$2,009,875						
						TOTAL	\$2,494,875						

PRRP Trails Component

Priority and estimated construction costs
18-Sep-13

Park	Priority	Description	Trail improvement			Strategy
			bituminous	concrete	soft	
			<i>linear feet at 8' wide</i>	<i>linear feet at 6' wide</i>	<i>linear feet at 10' wide</i>	
B-2	1					Highest ranking through public process
Pocahontas	2	safety along road, internal loop		560		Correcting a safety issue
Howard Johnson	3	accessible connection to play area and tennis court		230		Accessibility
Langton Lake	4	C2 play area access		160		Accessibility
Villa	5	access to Upper Villa play area				Accessibility
Mapleview	6	internal path, maintenance to rink, curb cut to accommodate strollers		1200		Curb cut and path to play area needed for access to play area
Lexington	7	complete Lexington to building, Eldridge loop		890		Complete existing pathway loop/potential safety issue/access to new structure
Rosebrook	8	complete loop at north end		320		Complete existing pathway loop
Autumn Grove	9	internal spine and park loop		1920		Complete loop/recreation amenity/complete park area
Acorn	10	trike path, connection to Western along Brooks		190		Recreational
Tamarack	11	play area access		1380		Accessibility, park plan needs to be approved
Evergreen	12	neighborhood link to east, through natural area				Connectivity, SW plan must be completed
Oasis	13	soft trail at pond		300	1200	Recreational/high priorty for neighbors
Materion	14	link to Hand cul-de-sac to Grandview cul-de-sac		280		Connection to neighborhoods
Villa	15	parallel Cohansey and wetland, another bridge crossing		510	710	Recreational
Bruce Russell	16	link to Lexington		600		Connection to neighborhoods/constellation
Southwest Roseville	N/A	Saint Stephens trail to CR B		4000		Constellation connection
total length				12540	710	1200
cost per linear foot at specified width			\$ 40	\$ 36	\$ 10	
subtotal			\$ 501,600	\$ 25,560	\$ 12,000	
miscellaneous (tree removal, curb cuts, subcut culvert) at 10 percent			\$ 50,200	\$ 2,600	\$ 1,200	
contingency at 20%			\$ 110,400	\$ 5,700	\$ 2,700	
TOTAL			\$ 662,200	\$ 33,860	\$ 15,900	
Total for trails internal to parks			\$ 711,960			
B2 sidewalk			\$ 1,200,000			
Total PRRP estimate for trails component			\$ 1,911,960			

How to Design a City for Women

<http://www.theatlanticcities.com/commute/2013/09/how-design-city-women/6739/>

- CLARE FORAN

In 1999, officials in Vienna, Austria, asked residents of the city's ninth district how often and why they used public transportation. "Most of the men filled out the questionnaire in less than five minutes," says Ursula Bauer, one of the city administrators tasked with carrying out the survey. "But the women couldn't stop writing."

The majority of men reported using either a car or public transit twice a day -- to go to work in the morning and come home at night. Women, on the other hand, used the city's network of sidewalks, bus routes, subway lines and streetcars more frequently and for a myriad reasons.

"The women had a much more varied pattern of movement," Bauer recalls. "They were writing things like, 'I take my kids to the doctor some mornings, then bring them to school before I go to work. Later, I help my mother buy groceries and bring my kids home on the metro.'"

Women used public transit more often and made more trips on foot than men. They were also more likely to split their time between work and family commitments like taking care of children and elderly parents. Recognizing this, city planners drafted a plan to improve pedestrian mobility and access to public transit.

Additional lighting was added to make walking at night safer for women. Sidewalks were widened so pedestrians could navigate narrow streets. And a massive staircase with a ramp running through the middle was installed near a major intersection to make crossing easier for people with strollers and individuals using a walker or a wheelchair.



The barrier-free staircase in Vienna's ninth district. (Image courtesy flickr user: Josef Lex)

The decision to look at how men and women used public transit wasn't a shot in the dark. It was part of a project aimed at taking gender into account in public policy. In Vienna, this is called gender mainstreaming.

Gender mainstreaming has been in place in the Austrian capital since the early 1990s. In practice, this means city administrators create laws, rules and regulations that benefit men and women equally. The goal is to provide equal access to city resources. And so far, officials say it's working.

Vienna has adopted gender mainstreaming in a number of areas of city administration, including education and health care policy. But nowhere has it had more of an impact than on the field of urban planning. More than sixty pilot projects have been carried out to date. As the size and scale of these projects increase, gender mainstreaming has become a force that is literally reshaping the city.

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Urban planners have been melding mainstreaming and city design in Vienna for over two decades and they've gotten it down to something of a science. Before a project gets underway, data is collected to determine how different groups of people use public space.

"There are so many questions that need to be asked," Eva Kail tells me. Kail has been instrumental in bringing gender mainstreaming to Vienna and currently works as a gender expert in the city's Urban Planning Group. "You need to know who is using the space, how many people, and what are their aims. Once you've analyzed the patterns of use of public space, you start to define the needs and interests of the people using it," she explains. "Then planning can be used to meet these needs."

Mainstreaming got off the ground in Vienna in 1991 when Kail and a group of city planners organized a photography exhibit titled "Who Owns Public Space -- Women's Everyday Life in the City." It depicted the daily routines of a diverse group of women as they went about their lives in the Austrian capital. Each woman tracked a different route through the city. But the images made clear that safety and ease of movement were a priority for all of them.

It sparked a media firestorm. "Newspapers, television and radio were all covering it and 4,000 people visited," Kail says. "At the time it was something completely new. But politicians quickly realized it was something people were interested in and they decided to support it."

Soon after, the city green lit a series of mainstreaming pilot projects. One of the first to be carried out was an apartment complex designed for and by women in the city's 21st district. In 1993, the city held a design competition for the project, which was given the name Frauen-Werk-Stadt or Women-Work-City.

The idea was to create housing that would make life easier for women. But what exactly did that mean? Time use surveys compiled by Statistik Austria, the Austrian national statistics office, showed that women spent more time per day on household chores and childcare than men. Women-Work-City was built with this in mind. It consists of a series of apartment buildings surrounded by

courtyards. Circular, grassy areas dot the courtyards, allowing parents and children to spend time outside without having to go far from home. The complex has an on-site kindergarten, pharmacy and doctor's office. It also stands in close proximity to public transit to make running errands and getting to school and work easier.



A view into one of the courtyards at Women-Work-City. (Image courtesy archive Franziska Ullmann)



Women-Work-City has an on-site kindergarten. (Image credit: Paolo Mazzoleni)

"What made the project unique was that we worked to define the needs of the people using the space first and then looked for technical solutions," Kail says. "Very often it is the opposite, where technical or aesthetic solutions determine the end result."

Following completion of Women-Work-City, city officials turned their attention to Vienna's network of public parks and commissioned a study to see how men and women use park space. What they found was surprising.

The study, which took place from 1996 to 1997, showed that after the age of nine, the number of girls in public parks dropped off dramatically, while the number of boys held steady. Researchers found that girls were less assertive than boys. If boys and girls would up in competition for park space, the boys were more likely to win out.

City planners wanted to see if they could reverse this trend by changing the parks themselves. In 1999, the city began a redesign of two parks in Vienna's fifth district. Footpaths were added to make the parks more accessible and volleyball and badminton courts were installed to allow for a wider variety of activities. Landscaping was also used to subdivide large, open areas into semi-enclosed pockets of park space. Almost immediately, city officials noticed a change. Different groups of people -- girls and boys -- began to use the parks without any one group overrunning the other.



A city park in Vienna. Photo courtesy of David Bohmann.

People have started to pay attention. In 2008, the United Nations Human Settlements Program included Vienna's city planning strategy in its registry of best practices in improving the living environment. Vienna's park redesign project, along with a program to create a gender mainstreaming pilot district, has even been nominated for the United Nations Public Service Award, a badge of honor recognizing efforts to improve public administration.

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This change hasn't come without criticism, however.

"When we came up with the idea for the exhibit "Who Owns Public Space" a lot of our colleagues thought it was ridiculous," Kail says. "Everyone we worked with had to give feedback. People said things like, "does this mean we should paint the streets pink?"

"Gender can be an emotional issue," Bauer adds. "When you tell people that up until now they haven't taken the women's perspective into account they feel attacked. We still have people asking, 'Is this really necessary?'"

Planners also run the risk of reinforcing stereotypes in attempting to characterize how men and women use city space. To distance themselves from this, city officials have begun to shy away from the term gender mainstreaming, opting instead for the label 'Fair Shared City.'

Whatever its limitations, there's no question that mainstreaming has left an indelible mark on the Austrian capital. It began as a way to look at how men and women use city space differently. Today, however, mainstreaming has evolved into a much broader concept. It's become a way of changing the structure and fabric of the city so that different groups of people can coexist. "For me, it's a political approach to planning," Kail says. "It's about bringing people into spaces where they didn't exist before or felt they had no right to exist."

Keywords: Gender, Urban Planning

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The Minnesota Landscape Arboretum's waterfall provides the perfect background to bring out the garden's true beauty.

IN BLOOM

Warm up to summer in Minnesota's most succulent gardens.

BY MOLLY ABEL

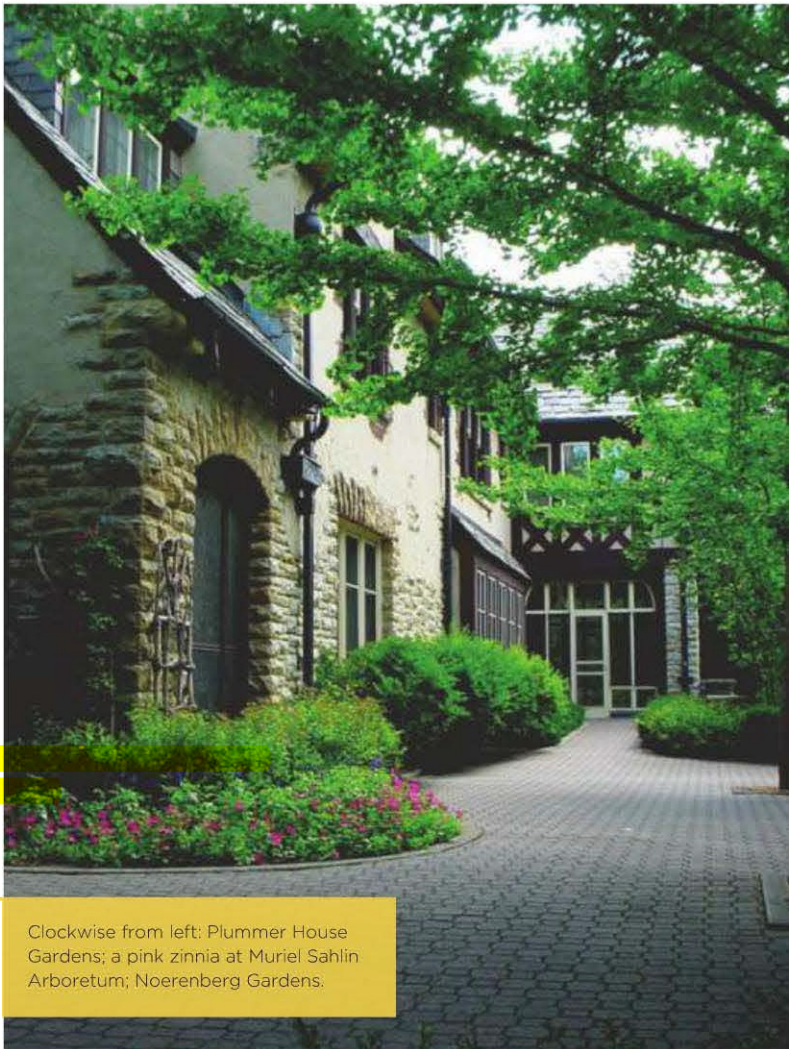
INSTINCTIVELY, AS THE SNOW MELTS and temperatures rise, Minnesotans crave spending time outdoors. There's no shame in admitting that being stuck inside a typical whitewashed room during a meeting is unappealing. If the lush, tranquil call of a verdant garden isn't enough to convince you to consider it as your next event's location, just listen to the experts: A 2005 study in Psychological Science found spending time outdoors not only improves mood, but also memory and cognition. Shed the glare of fluorescent office lights and head outside for the natural warmth of the sun at one of these local gardens. .

Minnesota Landscape Arboretum, Chanhassen

The famed Minnesota Landscape Arboretum began as the Fruit Breeding Farm in 1908. With 1,137 acres dedicated to agrarian research, public education, recreation and inspiration, the arboretum also offers substantial indoor and outdoor space. The 45,000-square-foot Oswald Visitor Center alone comprises five different meeting spaces, including a spacious great hall 40 feet high, framed by huge windows and skylights, a 375-seat auditorium, a cafeteria-style restaurant, an art gallery with rotating exhibits and two well-equipped classrooms. In addition to the abundance of natural light, an automated Lighting system is in place and the heating and cooling of the center are powered by geothermal energy. Event packages are available, as well as free Wi-Fi, ample parking and catering. Outdoor spaces, of course, abound with several areas specifically designed for gatherings, such as the Margot Picnic Area, which also has access to restrooms and electricity.

Muriel Sahlin Arboretum, Roseville

Whether it's spring, summer or autumn, the Muriel Sahlin Arboretum in Roseville is a serene and naturally gorgeous garden. The grounds are available for events of up to 300 guests, and up to 100 attendees can be accommodated in the Shirlee Klaus Pavilion, an open-walled focal point of the arboretum. Tents are allowed for protection during rain showers or to provide shade, and there is access to a climate-controlled indoor changing facility with restrooms. The arboretum is also very accommodating to events. Every year, it hosts the Taste of Rosefest, which gives local restaurants an opportunity to showcase their fare.



Clockwise from left: Plummer House Gardens; a pink zinnia at Muriel Sahlin Arboretum; Noerenberg Gardens.



PHOTO COURTESY OF: JEFFERY A. MORTON; MURIEL SAHLIN ARBORETUM; DEREK J. DICKINSON.

Noerenberg Memorial Gardens, Wayzata

The Noerenberg Memorial Gardens were formerly the residence of the Noerenberg family and, at their request, the estate was donated to the Three Rivers Park District and transformed into a garden, presently open from May 1 through mid-October. The garden includes unusual annuals and perennials, plus a large daylily collection and a gazebo overlooking Crystal Bay on Lake Minnetonka. Six different sites are available for events, with capacities up to 200. Canopies are allowed in most of the areas. Temporary restrooms are located on-site, and electrical access and a total of 50 parking spaces are available. Planners should note tile restrictions on food and beverages; terms from tile donation of tile garden to tile park district prohibit eating and drinking on tile property.

Como Park Zoo and Conservatory, St. Paul

It's hard to beat the convenience of the Como Park Zoo and Conservatory. The St. Paul-based zoo boasts both manicured outdoor and spacious indoor options, making Como a perennially popular choice for events. The Marjorie McNeely Conservatory and adjacent Visitor Center (which expanded this spring to include such additions as The Ordway Gardens, a \$2.8 million wing to tile conservatory) offer a setting among lush greens in tile convenience of a sheltered venue, which is used as a backup venue during inclement weather. Options include several serene outdoor garden spaces, such as tile butterfly-attracting Enchanted Garden with a capacity for 250 seated, or the indoor Sunken Garden, home to seasonal flower shows. The Covered Porch inside tile Visitor center with floor-to-ceiling windows overlooking the lily ponds has a 500 person reception-style capacity.

Plummer House Gardens, Rochester

A notable tourist attraction, the gardens at Rochester's Plummer House of the Arts have been the site of parties, weddings, receptions and meeting for up to 100 guests. Formal gardens, careful landscaping, a bird trail, quarry, two foundations, a water tower and a picturesque stairway that leads from the lower garden and wraps around the back of the Plummer House are just some of the features on the 11 acres are also used during events. The first two floors of the Plummer House are available for guests on the date of the garden rental.

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