



# Schuylkill River Park

## Conceptual Design for Gateway Improvements

Taney and Pine Streets Philadelphia, PA 19103  
February 2011 • Project Number 2010-12

**COMMUNITY DESIGN**

COLLABORATIVE

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# Schuylkill River Park

## Conceptual Design for Gateway Improvements

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February 2011 • Project Number 2010-12

Prepared for  
**Friends of Schuylkill River Park**  
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Philadelphia, Pennsylvania 19103  
Sean O'Rourke, Vice President

Prepared by  
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Reports printed by



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## About Us

Building neighborhood visions as communities and design professionals work together; the Community Design Collaborative is a 501(c) 3 nonprofit that provides preliminary architectural, engineering, and planning services to nonprofit organizations.

Design professionals—volunteering their services *pro bono* through the Collaborative—help nonprofits communicate their goals for improving the physical and social fabric of their neighborhoods through design.

The Collaborative relies on a variety of resources to achieve its goal of assisting nonprofits in need of preliminary design services. Our programs are supported through grants from the City of Philadelphia's Office of Housing and Community Development, The William Penn Foundation, PNC Bank Foundation, Wachovia Foundation, Claneil Foundation, Connelly Foundation, AIA Philadelphia, Citizens Bank Foundation, NEA Design Arts, The Quaker Chemical Foundation and the Union Benevolent Association.

Operational support is also provided through the generosity of individual and corporate donors. The Collaborative's Annual Bowling Ball is a signature event, raising funds while offering a night of fun for firms, friends, and fans. In addition, the Collaborative's volunteers donate hundreds of hours of in-kind services each year.

To learn more about the Collaborative, visit our website at [www.cdesignc.org](http://www.cdesignc.org) or contact us at [cdesignc@cdesignc.org](mailto:cdesignc@cdesignc.org).

The Community Design Collaborative's products are intended to provide visual concepts and to assist in the preliminary phase of project design and planning. All drawings and construction budgeting figures are limited to conceptual design and are neither intended nor may be used for construction. The Community Design Collaborative and our project volunteers assume no responsibility or liability for our services including the recommendations of our volunteers, the technical accuracy of our work product or for any unauthorized use.

Building Neighborhood Visions...



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### **Description of Services**

*Value of Services Donated*

# Introduction

## Schuylkill River Park

### Conceptual Design for Gateway Improvements

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The gateway to Schuylkill River Park, at the corner of Pine and Taney Streets, is not only a major entrance into a very well used green space, but is also a venue for a large variety of organized and impromptu activities. The project area also serves as the forecourt for the Markward recreation building which hosts a variety of community activities and educational programs. In its current state, this section of the larger park is still very well used even though much of the facilities have fallen into disrepair and no longer serve the community as well as they could.

The project area consists of two major areas; the entry, which is referred to as the “Front Parlor”, and a larger paved gathering area that is referred to as the “Living Room”. At the entry, there is a wide shallow stairway that takes up most of the space, with a retrofitted handicap ramp running up the right side, providing wheelchair access. A small war memorial, erected by local veterans, sits on top of a retaining wall directly behind the handicap ramp. There is also a small seating area off the sidewalk to the left of the entry that contains precast concrete tables and chairs that have fallen into disrepair. Both the seating area and the war memorial are well used by a group of community members and are to be retained. The stairway is used by skateboarders and rollerbladers, creating a use conflict with visitors entering and leaving the park.

The “Front Parlor” and “Living Room” are divided by a portico that spans across the entryway and is an extension of the one-story recreation building. This feature is valued for the sense of gateway it creates, however, the dense wood cladding makes the space below dark and uncomfortable and it also invites younger visitors to climb on top of it.

Just beyond the portico is the “Living Room”, the main gathering space in the project area. As a simple paved terrace this space is host to many kinds of activities and is valued for its versatility. It is used as a place for quiet contemplation and people watching, as well as a venue for community festivals and birthday parties. It also acts as an extension of the adjacent playground as a play area. A central sculptural fountain has the ability to transform this space into an intermittent water play area. This space is alive with activity in spite of crumbling amenities, such as the precast concrete tables and chairs that are now mostly unusable and pavement that is cracked and heaved. There are also drainage problems which cause pooling at some of the seating areas. There is also a need to control cross circulation from bicycles and other fast moving human-powered vehicles that are in conflict with most of the other activities, creating unsafe conditions. The central fountain acts as a sculptural icon for the park, however, it is difficult to operate as a water play feature and does not recirculate the water, thus dumping hundreds of gallons of potable water into the sewer system. The activity of water play is also sometimes in conflict with other activities in this area.

The Friends of Schuylkill River Park (FSRP) have begun the process of developing a new vision for this gateway to the park. The non-profit organization of approximately 500 members was founded in 1988 with a mission to preserve, beautify, improve, maintain and promote the use and enjoyment of the Schuylkill River Park and Markward recreation facility. With help from a community task force, created by FSRP, the Community Design Collaborative (Collaborative) design team has developed a conceptual design that not only addresses the main issues, but will potentially transform the park into an archetype of a living, didactic landscape. With information and feedback gathered through two community meetings, multiple site visits, and correspondence with various city entities, the design team has provided: an analysis of the project area and its relevance to the larger urban

# Introduction

**Schuylkill River Park**

**Conceptual Design for Gateway Improvements**

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(cont.)

context; a site plan of the conceptual design with additional diagrams of the design features; illustrative perspective drawings showing the quality of space created by the design; precedent images showing existing examples of some of the design features; an opinion of probable cost that illustrates how the project could be implemented in phases using the help of various organizations and volunteers; and a maintenance plan that outlines the activities and costs associated with maintaining the design, once built.

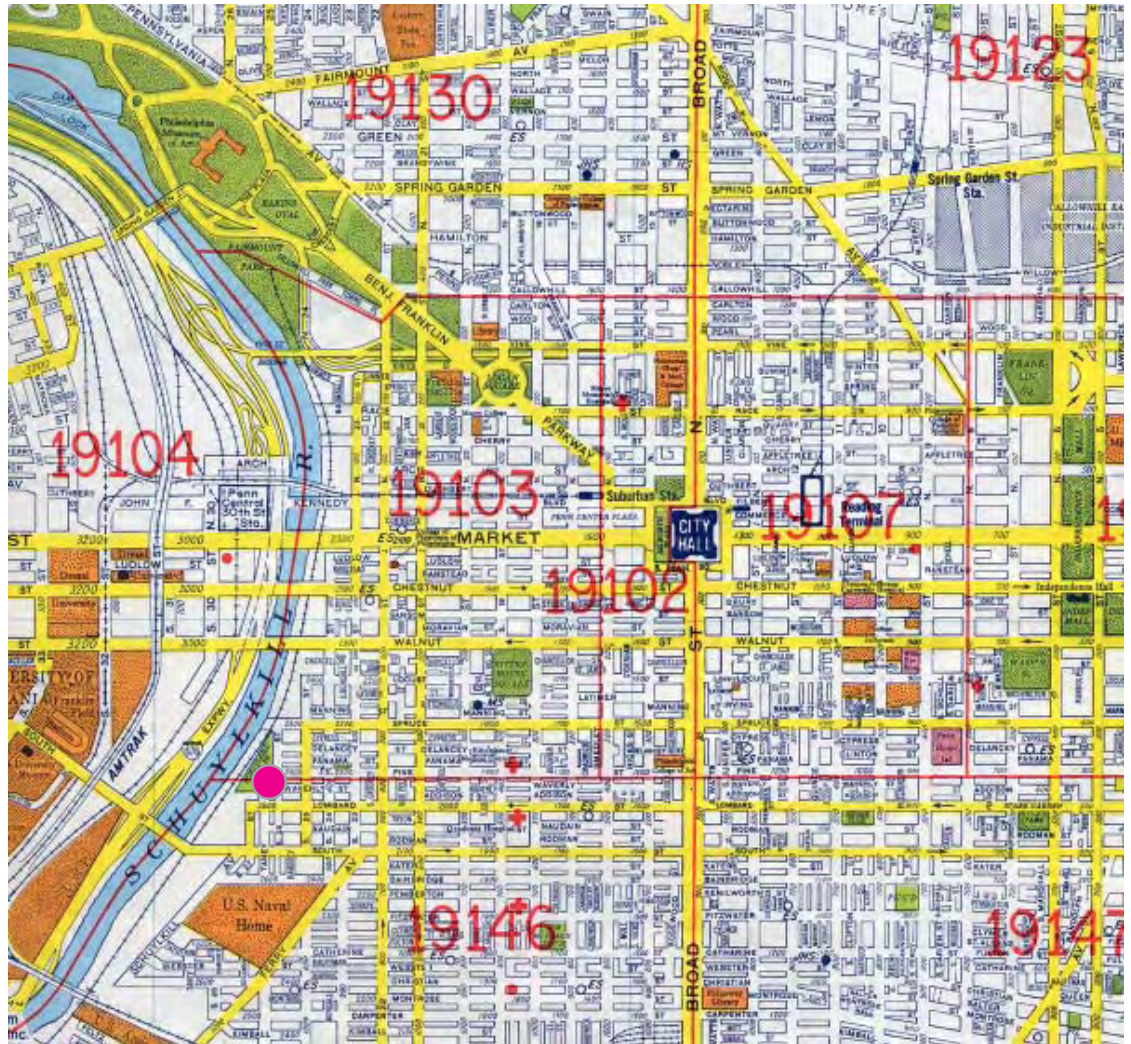
The products provided by the Collaborative design team can be used by FSRP to take the next steps in implementing the improvements to this portion of the park. The illustrative plans and renderings will be very helpful in raising funds from both private and public sources by offering a means of communicating the vision and generating excitement. The cost information will help FSRP set fundraising goals and will inform their implementation strategy. It is the hope of the Collaborative design team that the work provided will help FSRP realize their vision for the Gateway to Schuylkill River Park.

# Project Location

## Schuylkill River Park

Conceptual Design for Gateway Improvements

2010-12



Schuylkill River Park  
Taney and Pine Streets  
*Center City Philadelphia*

Organization: Neighborhood Park Group  
Facility Type: Neighborhood Park



# Neighborhood Context

## Schuylkill River Park

### Conceptual Design for Gateway Improvements

2010-12



View of city skyline from the park

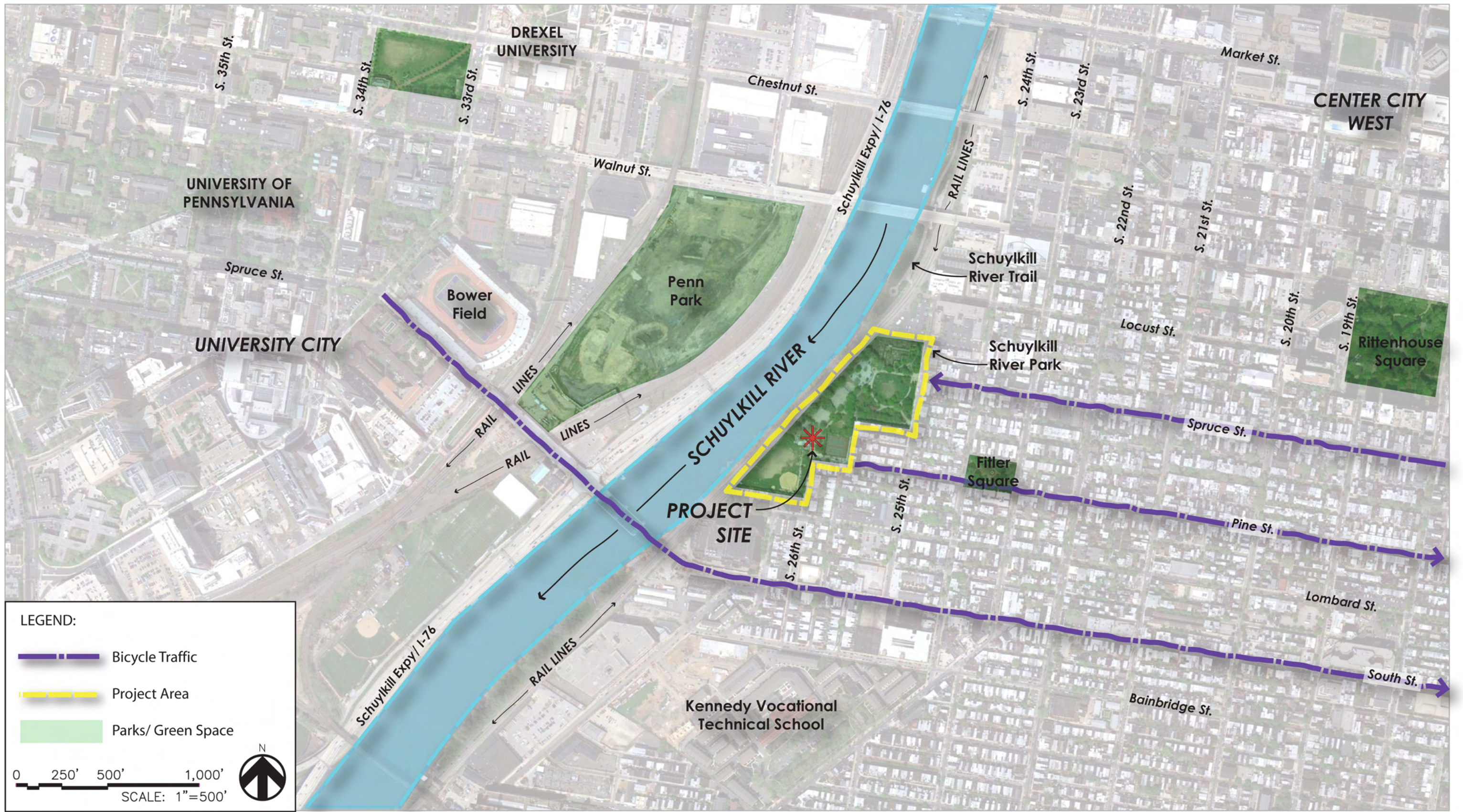


View of the homes on Pine Street adjacent to the park entry



View from the park entry looking south down Taney Street





**LEGEND:**

- Bicycle Traffic
- Project Area
- Parks/ Green Space

0 250' 500' 1,000'  
SCALE: 1"=500'



Project number  
2010-12  
Date  
12-20-10  
Scale  
As Noted

### Schuylkill River Park - Conceptual Design for Gateway Improvements

Existing Conditions - Context Map

The Community Design Collaborative's products are intended to provide visual concepts and to assist in project design and planning. All drawings are limited to conceptual design and are neither intended nor may be used for construction. Neither the Community Design Collaborative nor the project volunteers assume responsibility or liability for the technical accuracy of drawings or for any unauthorized use.

# Existing Conditions

**Schuylkill River Park**

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## Photos



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**COLLABORATIVE**

Project number  
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Date  
12.27.10  
Scale  
As Noted

## Schuylkill River Park - Conceptual Design for Gateway Improvements

Existing Conditions -Aerial View

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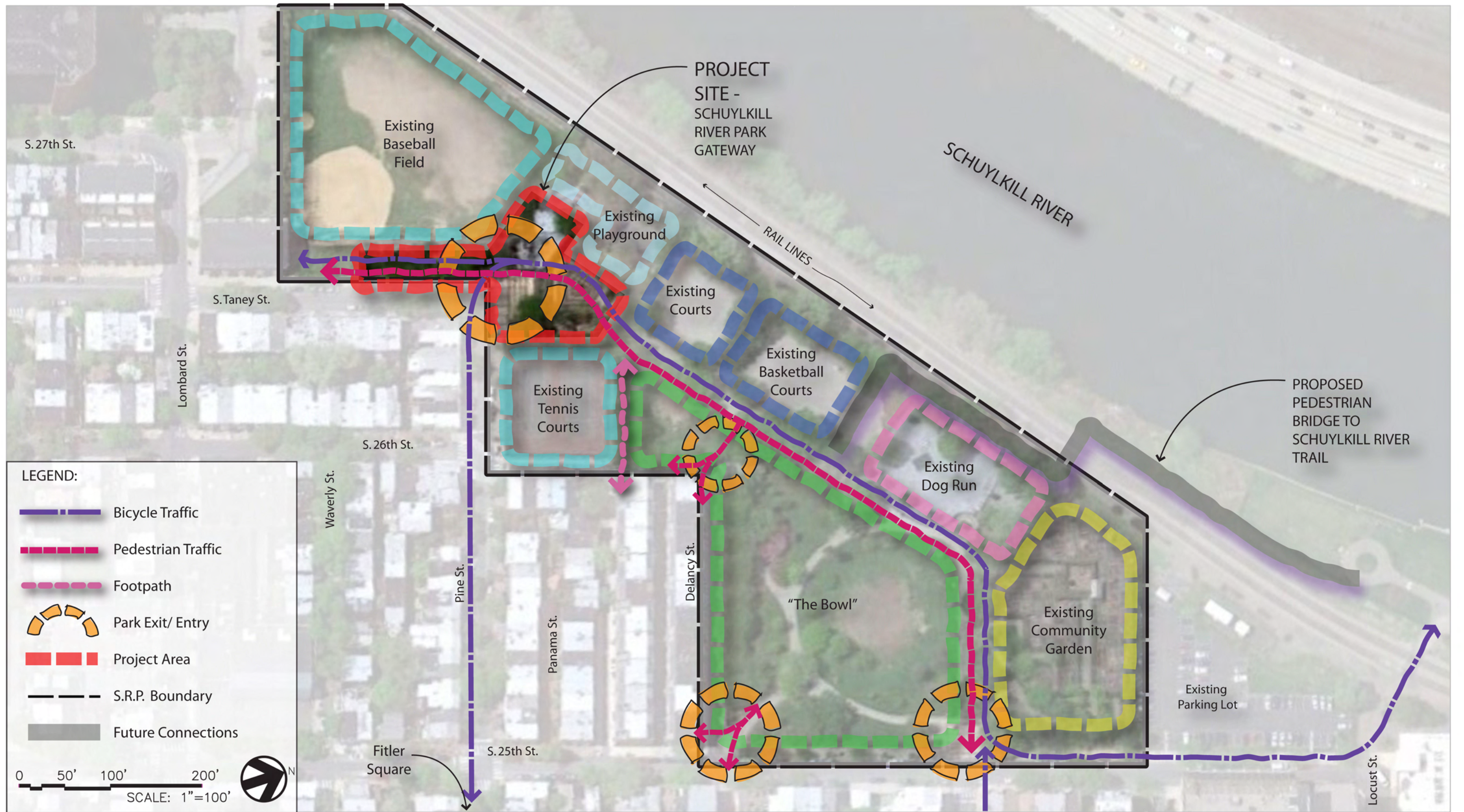


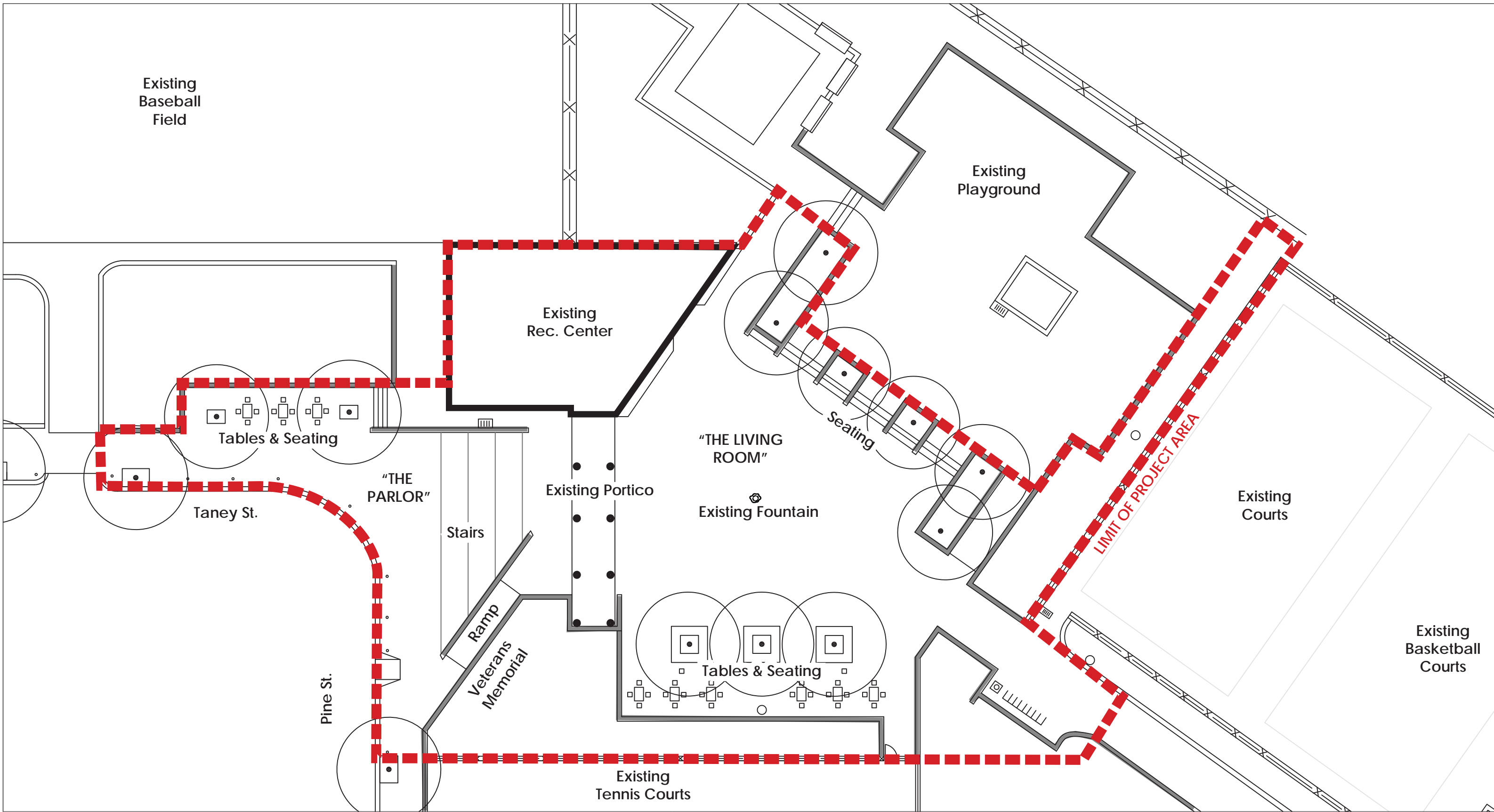
# Existing Conditions Plans

**Schuylkill River Park**

**Conceptual Design for Gateway Improvements**

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Project number  
2010-12  
Date  
12-20-10  
Scale  
1" = 20'

Schuylkill River Park - Conceptual Design for Gateway Improvements

Existing Conditions Plan



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# Existing Conditions

**Schuylkill River Park**

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## Structural Assessment

The possibility of installing a green roof on the roof of the Markward Playground building was considered early in the project, but was not developed as part of the scope of the final design. The following information is included in order to assist FSRP if the group decides to reconsider the installation of a green roof in the future.

In initial considerations, it was noted that the one-story structure appears to be about forty years old. Approximately one third of the roof framing is visible to view and is framed with heavy timber. The remaining roof framing is hidden from view above a ceiling.

A structural analysis of the existing roof framing was not performed. When this building was designed, the required design snow load on the roof was 30 psf. Buildings designed in Philadelphia today are designed to support a basic flat roof snow load of 20 psf (plus snow drift loads), so there's potentially a 10 psf reserve load capacity in the roof framing. The saturated weight of green roof systems vary from 10 psf to 70 psf. Determination as to whether a green roof can be supported by the roof framing will require a survey to measure the dimensions of the existing framing and connections and a structural analysis. Based on visual observations of the exposed roof framing, it appears that reinforcing of the existing framing may be required in order to support a green roof.



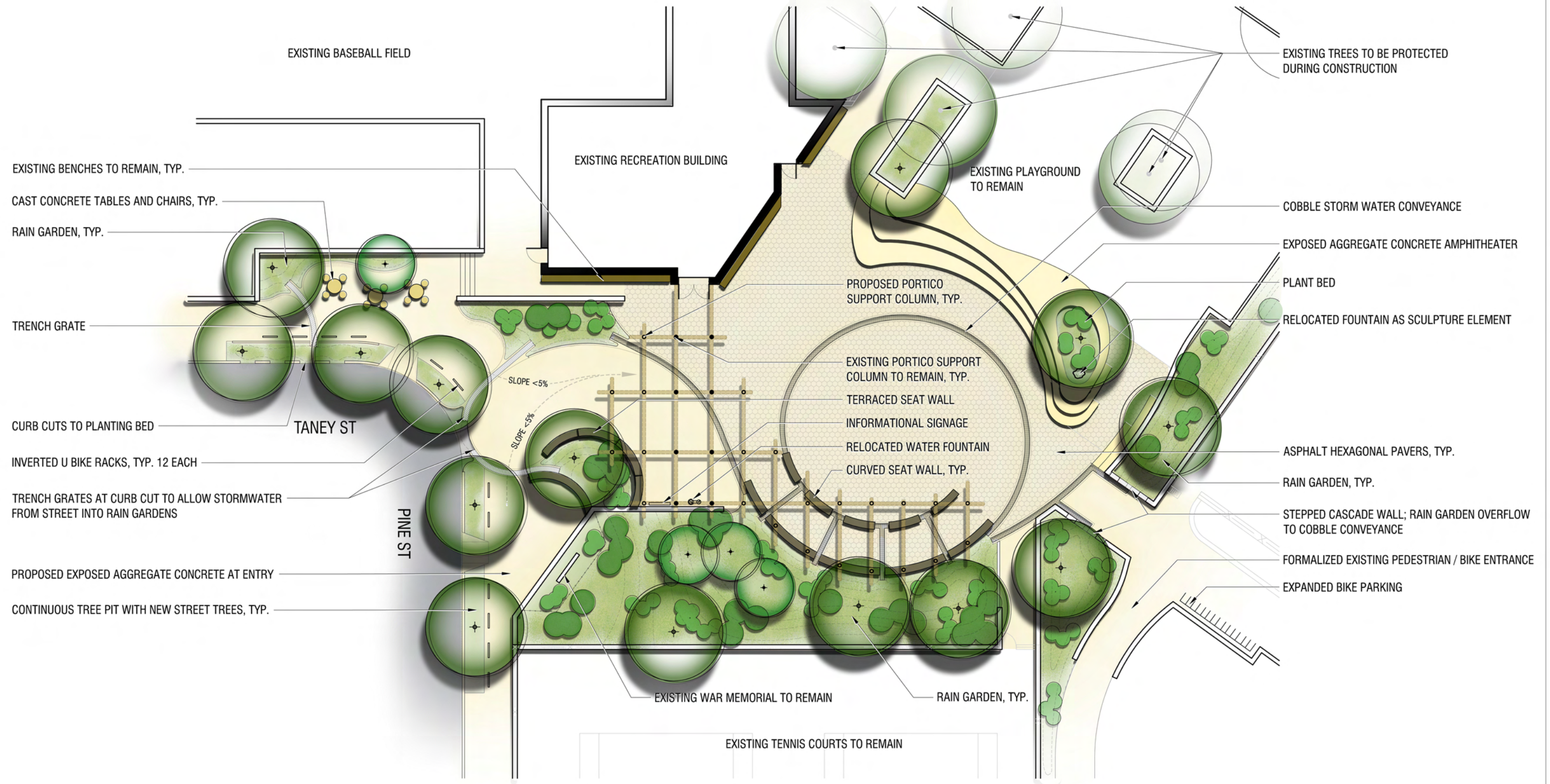
# Conceptual Design

**Schuylkill River Park**

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Proposed  
Drawings





Proposed seating (shown in red) helps to create new gathering spaces that are undisturbed by circulation (shown in purple).

There are varying degrees of openness and intimacy from the sheltered space at the curving bank of seat walls under the portico, to the more extroverted spaces at the entry, to the grand open plaza that is embraced by the amphitheater.

This area of the park retains its versatility while improving the quality of experience and catering to more kinds of activities.

PEDESTRIAN CIRCULATION AND SEATING

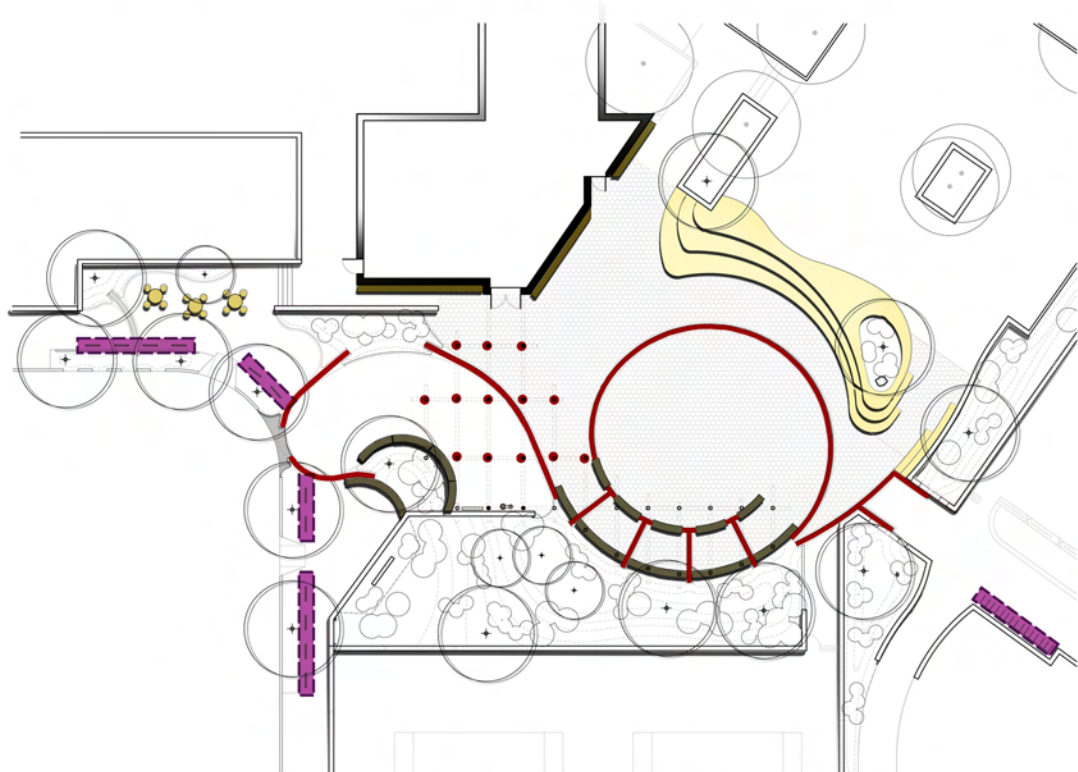


Water is captured as it runs down both Pine and Taney Streets and is visibly conveyed under the sidewalk to rain gardens via iron trench drains.

Water in the "living room" is captured and conveyed to a large rain garden adjacent to a primary seating area by a network of cobble conveyance trenches.

Two elevated rain gardens on either side of the North entrance to the "living room" capture water from adjacent park areas and spill over a cascade wall before being captured by cobble conveyance trenches and taken to a rain garden.

STORMWATER MOVEMENT

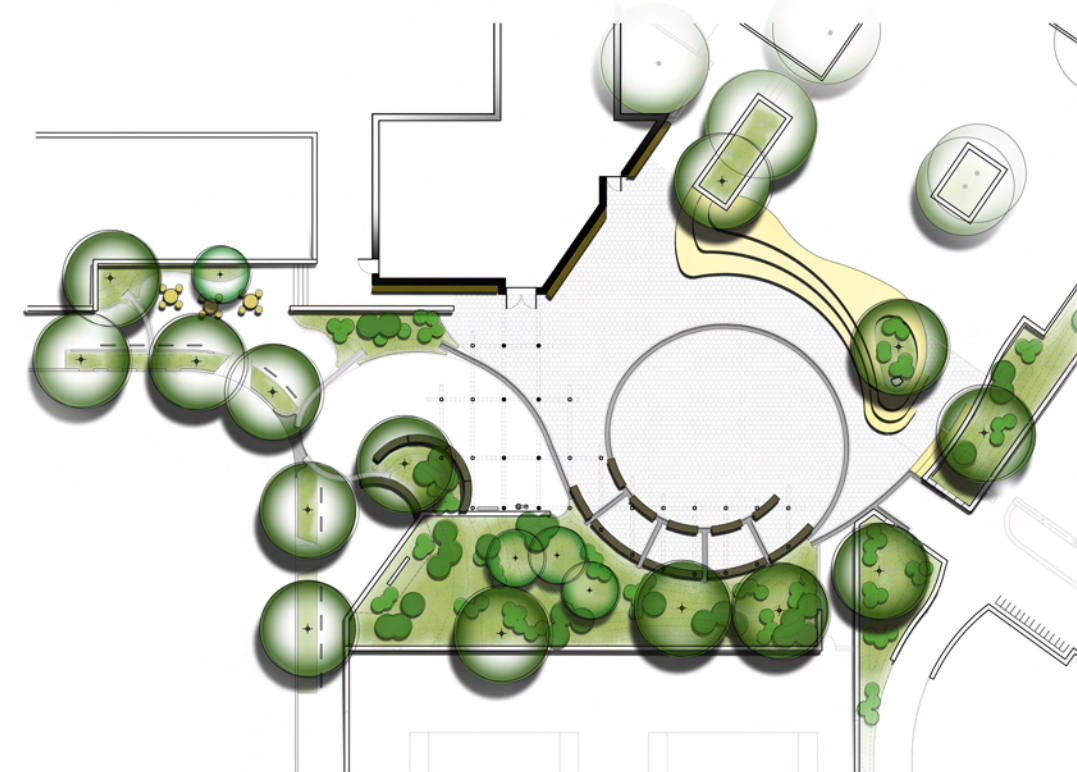


Cobble stormwater conveyance trenches and trench drains serve secondary functions as bicycle, skateboard, and roller skate calming elements.

An increased number of portico columns also helps to reduce the speed of bicycles etc. and encourages visitors to walk instead of ride through the park.

Increasing the amount of bicycle parking (highlighted in purple) also encourages cyclists to leave their bicycles outside the park.

BICYCLE AMENITIES AND CALMING MEASURES



The vegetation serves a valuable stormwater function and creates an aesthetic that is reminiscent of the riparian ecology that once covered the banks of the Schuylkill.

Densely planted native trees of varying species and age create miniature forests that provide shade and beauty for park visitors and pocket habitats for a variety of birds and insects.

Native plant communities of shrubs, grasses and forbs change with the seasons and help bring the park to life with their fragrant blossoms, colorful berries and brilliant autumn foliage.

VEGETATION



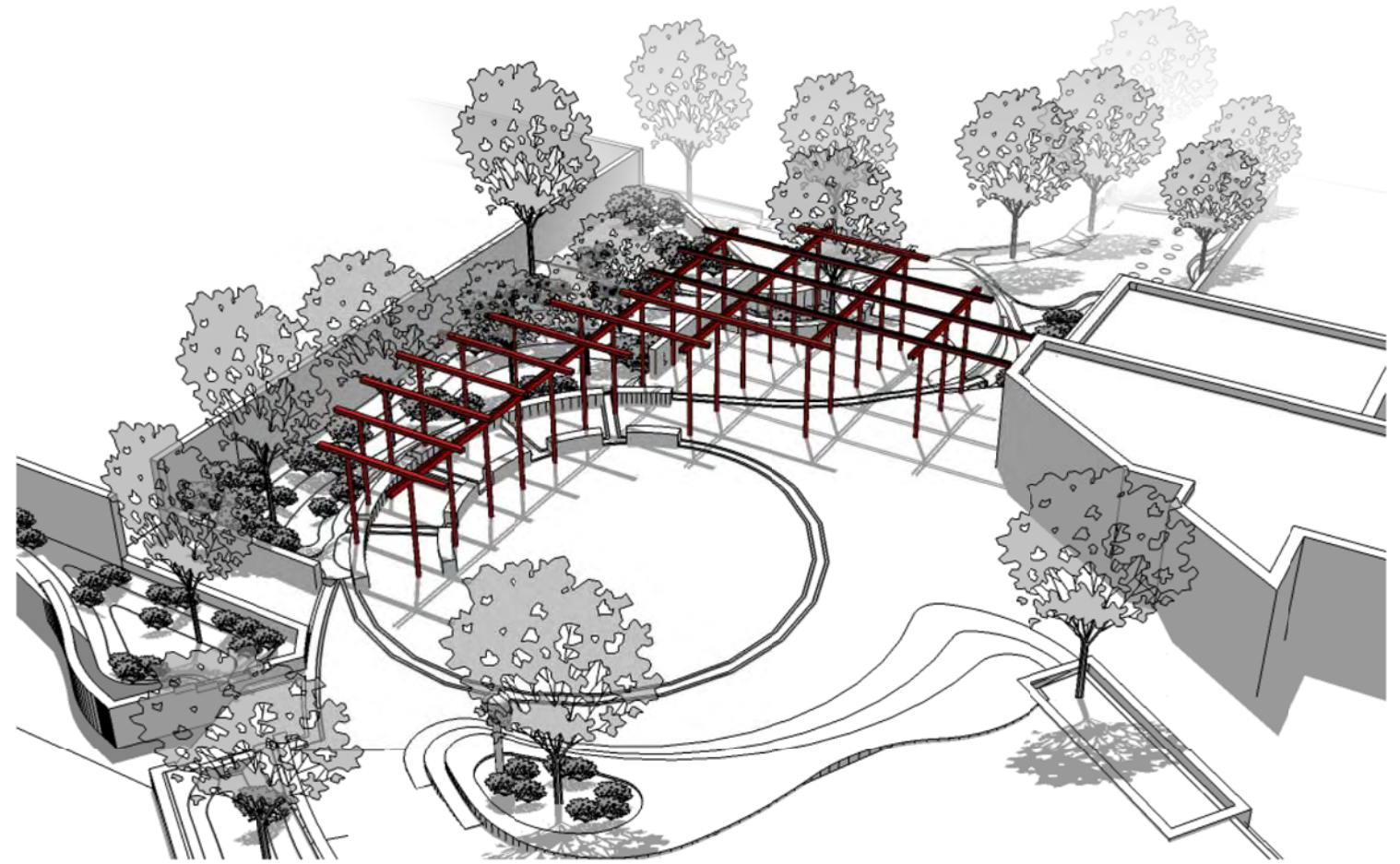
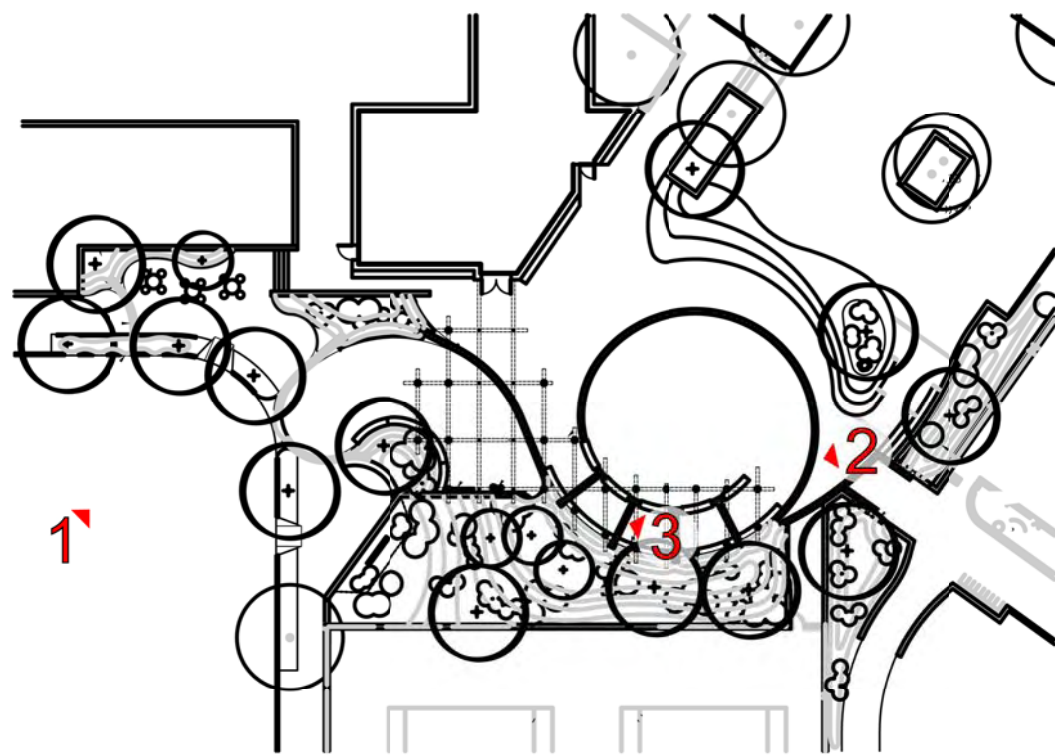
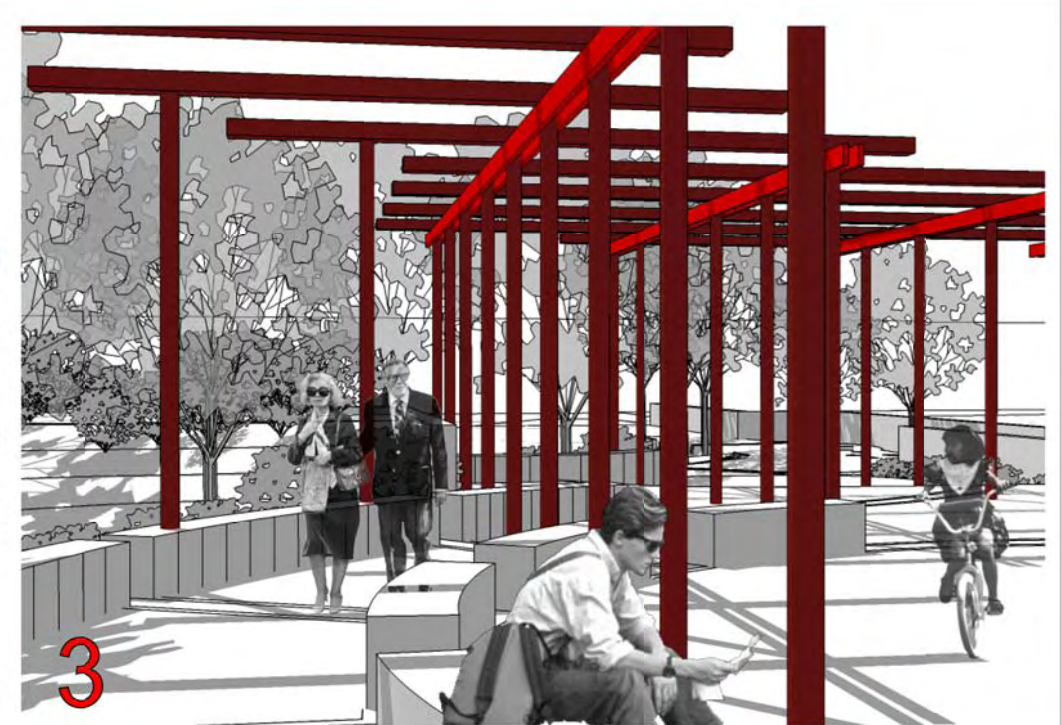
Project number  
2010-12  
Date  
12-20-10  
Scale  
1"= 40'

Schuylkill River Park - Conceptual Design for Gateway Improvements

Site Diagrams



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2010-12  
Date  
12-20-10  
Scale  
NTS

Schuylkill River Park - Conceptual Design for Gateway Improvements

Proposed Portico



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# Conceptual Design

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## Precedents



Trench drains with decorative iron grates can move large quantities of stormwater in a visible way.



Asphalt Hexagonal pavers (left) and exposed aggregate concrete (right) help the park fit into the larger context of the Schuylkill river park and the larger Philadelphia park system.



Native plants provide seasonal beauty, habitat, and perform well in rain gardens.



Cobble stormwater conveyance trenches are created by embedding spaced cobbles in a concrete trench. Small gaps between the stones allow water to move through the trench.



Solar powered LED (light emitting diode) fixtures can reduce energy consumption.

# Conceptual Design

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## Sustainable Strategies

The new vision for the gateway announces the Schuylkill River Park as a place that looks to the future, presenting a model for how the urban environment and natural systems can be reconciled. By taking advantage of the unique site conditions, referencing the ecological context and utilizing advances in energy efficient technology, a living, functioning, and didactic landscape can be created.

### **Stormwater**

The site is in a unique position to manage a great deal of urban runoff that is funneled down both Pine and Taney Streets to a low point at their convergence. Several techniques can be used to slow, detain and clean this gray water in a highly visible way.

- **Curb cuts**  
This is the first intervention in a series of stormwater measures. Breaks in the curb allow water to be captured in a long narrow rain garden as it runs down Taney Street.
- **Trench drains**  
These can convey large amounts of water through walkways into rain gardens while still allowing the movement of the water to be visible.
- **Cobble trench conveyance**  
By creating a channel filled with spaced cobble stones, one can create a miniature intermittent river that runs under foot toward rain gardens.
- **Rain Gardens**  
The best way to manage urban water runoff is reintroduce it back into the hydrological cycle. Nothing does this more effectively than rain gardens. Through evapotranspiration, plants send the water into the air and their roots provide channels for water to infiltrate back into the soil.
- **Subsurface detention**  
In the case of large storm events, rain gardens can become overwhelmed and overflow to the main infrastructure. Creating a holding area for water on its way to the storm sewer can help defray the damaging impacts of high volumes of concentrated water.

### **Native Plants**

Located on the banks of the Schuylkill River, the park is in the unique position of restoring some of the former ecology through the introduction of indigenous plants. These plants are adapted to this environment and therefore require less input in the form of labor and resources to maintain. Establishing small pockets of native plant communities has other benefits including the creation of habitat for birds and beneficial insects.

### **Energy Efficiency**

By using solar powered LED light fixtures, the park not only greatly reduces its energy consumption but it also demonstrates one of the many ways that we can use the renewable resources around us.

# Conceptual Design

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**2010-12**

## Maintenance Plan

### POTENTIAL RESPONSIBLE PARTIES

	CONTRACTOR	VOLUNTEER	PARKS AND REC. DEPT. / PARK STAFF	PA HORTICULTURAL SOCIETY	FREQUENCY	ANNUAL COST
<b>Grounds General</b>						
Pick up litter and trash		X	X		1 Weekly	\$600.00
Check for hazards		X	X		1 Weekly	\$260.00
Inspect all site furniture, light fixtures and portico; make repairs	X		X		1 Monthly	\$400.00
Check for graffiti and remove ASAP	X	X	X		As needed	\$200.00
Pull weeds from pavement joints		X	X		1 Monthly	\$240.00
Check and repair pavement	X		X		Once every 5 years	\$100.00
Snow removal	X		X		As needed	\$400.00
Rake leaves in fall -shred for plant bed mulch and compost	X		X		2 Weekly in Fall	\$800.00
<b>Stormwater Features</b>						
Check all inlets and outlets for potential debris clogs			X		1 Monthly	\$80.00
Remove trench drain grates and clean silt from trench drains			X		2 Yearly	\$240.00
Check and clean cobble water conveyances to maintain positive flow			X		4 Yearly	\$240.00
<b>Planting Beds</b>						
Initial establishment (first 3 years only)						
- hand watering			X	X	2 Weekly*	\$500.00
- establishment weeding			X	X	1 Weekly*	\$800.00
Ongoing weeding	X		X	X	3 Monthly	\$640.00
Water (in drought conditions only)			X		As needed	\$200.00
Cut dried grasses to the ground before spring	X		X		1 Yearly	\$60.00
Remove dead seed and flower heads of desired aesthetic	X		X		1 Weekly in late summer	\$60.00
Replenish composted leaf mulch to 2" depth	X		X		1 Yearly	\$160.00
<b>Rain Gardens</b>						
Initial establishment (first 3 years only)						
- hand watering			X	X	2 Weekly*	\$900.00
- establishment weeding			X	X	1 Weekly*	\$1,500.00
Ongoing weeding	X		X		3 Monthly	\$1,280.00
Water (in drought conditions only)	X		X		As needed	\$300.00
Check for and remove debris and litter			X		1 Weekly	\$400.00
Check riser pipes/outflow devices			X		2 Yearly	\$20.00
Check for excessive sediment buildup; remove sediment as needed			X	X	1 Yearly	\$20.00
Check plant health; replace plants as needed			X	X	4 Yearly	\$80.00
If water remains for more than 72 hours check for silting and amend soils as needed	X		X	X	As needed	\$200.00
<b>Trees</b>						
Initial establishment (first 4 years only)						
- Install and fill tree gator slow release waterers		X	X	X	2 Monthly*	\$1,600.00
- Prune to guide growth	X	X	X	X	4 Yearly*	\$1,200.00
Conduct hazard assessment	X		X	X	Every 10 Years	\$400.00
Conduct visual hazard check	X		X	X	1 Monthly	\$120.00
Water in extreme drought (20 days or more of 90+ deg. Fahrenheit with no rain)			X		As needed	\$200.00

### Maintenance Cost Per year

* Establishment Period Only (Potentially Donated)	\$6,500.00
Projected Yearly Ongoing Maintenance	\$7,700.00
Value of Potential Labor Donations	\$2,760.00
<b>Total Cost After Establishment (Less Labor Donations)</b>	<b>\$4,940.00</b>

**Note:** All costs are calculated on a wage per hour basis whether the tasks are performed by staff, hired contractors, volunteers or members of outside organizations. The total yearly cost therefore reflects the value of the work associated with maintenance.



# Conceptual Design

Schuylkill River Park

Conceptual Design for Gateway Improvements

2010-12

## Opinion of Probable Cost Phase I

					<b>IMPLEMENTATION /POTENTIAL FUNDING</b>				
					("L" for potential labor, "F" for potential funding)				
					CONTRACTOR	VOLUNTEER / PRIVATE DONOR	PHILA. WATER DEPT.	PA HORTICULTURAL SOCIETY	PHILA. MAYOR'S OFFICE OF SUSTAINABILITY
PHASE I	ENTRY AREA	Quantity	Unit	Unit Cost	Amount				
2.0	<b>SITWORK / DEMOLITION</b>								
	Temporary Barriers/Protection	1	LS	5,000.00	\$ 5,000.00	L			
	Rough Grading	650	SY	12.00	\$ 7,800.00	L			
	Erosion Control	1	LS	2,500.00	\$ 2,500.00	L			
	Miscellaneous Excavation and Backfill	1	LS	5,000.00	\$ 5,000.00	L			
	Demolition								
	- Concrete Sidewalk, Curbs	3,500	SF	5.00	\$ 17,500.00	L			
	- Trees - Stumps Included	1	LS	10,000.00	\$ 10,000.00	L		L, F	
	- Miscellaneous Demolition	1	LS	5,000.00	\$ 5,000.00	L			
	Trees - Small	4	EA	450.00	\$ 1,800.00	L	L		L, F
	- Medium	6	EA	650.00	\$ 3,900.00	L	L		L, F
	Rain Garden	4,210	SF	10.00	\$ 42,100.00	L	L	F	L, F
	Planting Bed Areas	1	LS	5,000.00	\$ 5,000.00	L	L		L, F
	Precast Site Tables	3	EA	2,250.00	\$ 6,750.00	L			
	- Chairs	12	EA	500.00	\$ 6,000.00	L			
	Stepped Seat Wall at Rain Garden - Assume 2' Above-Grade	315	LF	175.00	\$ 55,125.00	L			
	Integrated Exposed Aggregate Concrete Sidewalk - Scored	3,800	SF	15.00	\$ 57,000.00	L			
	Concrete Curb Cuts - 2'-6" Wide	4	EA	800.00	\$ 3,200.00	L		F	
	- 15' Wide	1	EA	1,600.00	\$ 1,600.00	L		F	
	Concrete Curbs	100	LF	25.00	\$ 2,500.00	L			
	Handicap Depressed Curbs	2	EA	850.00	\$ 1,700.00	L			
	Bike Racks - Inverted "U" - 4' Long	12	EA	800.00	\$ 9,600.00	L			
	Interpretive Signage - 5' Wide	1	EA	1,500.00	\$ 1,500.00	L		F	
	Identity and Donor Signage	1	LS	6,000.00	\$ 6,000.00	L	F		
	Exterior Dual Height Water Fountain	1	EA	1,750.00	\$ 1,750.00	L			
	- Water/Sanitary Piping Allowance	1	LS	5,000.00	\$ 5,000.00	L		F	
	Trench Drain w/ Grate - Conc Trench w/ Metal Grate	55	LF	275.00	\$ 15,125.00	L		F	
	Storm Drainage Allowance	1	LS	10,000.00	\$ 10,000.00	L		F	
	- Subsurface Storage - 6,000 Gallon	1	EA	30,000.00	\$ 30,000.00	L		F	
	Light Pole w/ Concrete Base	4	EA	4,500.00	\$ 18,000.00	L			F
	Subtotal				\$ 336,450.00				
	General Requirements	15%			\$ 50,467.50				
	Subtotal				\$ 386,917.50				
	Contingency	10%			\$ 38,691.75				
	<b>TOTAL</b>				<b>\$ 425,609.25</b>				

# Conceptual Design

Schuylkill River Park

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## Opinion of Probable Cost Phase II

				<b>IMPLEMENTATION /POTENTIAL FUNDING</b>				
				("L" for potential labor, "F" for potential funding)				
				CONTRACTOR	VOLUNTEER / PRIVATE DONOR	PHILA. WATER DEPT.	PA HORTICULTURAL SOCIETY	PHILA. MAYOR'S OFFICE OF SUSTAINABILITY
PHASE II	<u>PLAZA LIVING AREA</u>	Quantity	Unit	Unit Cost	Amount			
2.0	<u>SITWORK / DEMOLITION</u>							
	Temporary Barriers/Protection	1	LS	5,000.00	\$ 5,000.00	L		
	Rough Grading	550	SY	12.00	\$ 6,600.00	L		
	Erosion Control	1	LS	2,500.00	\$ 2,500.00	L		
	Miscellaneous Excavation and Backfill	1	LS	10,000.00	\$ 10,000.00	L		
	Demolition							
	- Concrete Sidewalk, Curbs	4,800	SF	5.00	\$ 24,000.00	L		
	- Trees - Stumps Included	1	LS	10,000.00	\$ 10,000.00	L		F
	- Miscellaneous Demolition	1	LS	5,000.00	\$ 5,000.00	L		
	Trees - Small	10	EA	450.00	\$ 4,500.00	L	L	L, F
	- Medium	7	EA	650.00	\$ 4,550.00	L	L	L, F
	Planting Bed Areas	1	LS	12,000.00	\$ 12,000.00	L	L	L, F
	Rain Garden Area	1	LS	5,000.00	\$ 5,000.00	L	L	F, L, F
	Portico Post Foundations - Footings/Piers	12	EA	750.00	\$ 9,000.00	L		
	Seat Walls/Capstone within Plaza Area	120	LF	175.00	\$ 21,000.00	L		
	Asphalt Pavers	4,800	SF	22.50	\$ 108,000.00	L		
	Concrete Sidewalk Along Tennis Court	1,400	SF	12.00	\$ 16,800.00	L		
	Bike Racks - 4' Long	8	EA	650.00	\$ 5,200.00	L		
	Site Furnishings for Plaza	1	LS	12,500.00	\$ 12,500.00	L		
	Relocate Fountain (As Sculpture Element)	1	EA	5,000.00	\$ 5,000.00	L		
	Cobble Storm Water Conveyance - Conc Trench w/ Stone	224	LF	250.00	\$ 56,000.00	L		F
	Water/Sanitary Piping Allowance	1	LS	5,000.00	\$ 5,000.00	L		F
	Storm Drainage Allowance	1	LS	10,000.00	\$ 10,000.00	L		F
	Light Pole w/ Concrete Base	4	EA	4,500.00	\$ 18,000.00	L		F
	Subtotal				\$ 355,650.00			
	General Requirements	15%			\$ 53,347.50			
	Subtotal				\$ 408,997.50			
	Contingency	10%			\$ 40,899.75			
	<b>TOTAL</b>				<b>\$ 449,897.25</b>			

# Conceptual Design

**Schuylkill River Park**  
**Conceptual Design for Gateway Improvements**  
**2010-12**

## Opinion of Probable Cost Phase III and Overall Costs

					<b>IMPLEMENTATION /POTENTIAL FUNDING</b>				
					("L" for potential labor, "F" for potential funding)				
					CONTRACTOR	VOLUNTEER / PRIVATE DONOR	PHILA. WATER DEPT.	PA HORTICULTURAL SOCIETY	PHILA. MAYOR'S OFFICE OF SUSTAINABILITY
PHASE III	PORTICO AND LIGHTING	Quantity	Unit	Unit Cost	Amount				
	Demolition of Existing	1	LS	8,000.00	\$ 8,000.00	L			
	Demolition of Existing Benches, Planters	1	LS	10,000.00	\$ 10,000.00	L			
	Construction of New Portico - Framing	300	LF	75.00	\$ 22,500.00	L			
	- Columns - 15' High	12	EA	750.00	9,000	L			
	- Miscellaneous Roof/Shading	1,100	SF	10.00	11,000	L			
	- Portico Light	1	LS	5,000.00	5,000	L			
	Concrete Amphitheater (3 Risers) - Exposed Agg Concrete	975	SF	40.00	\$ 39,000.00	L			
	Mounted Water Spray Mister System on Portico	1	LS	10,000.00	\$ 10,000.00	L			
	Site Lighting	1	LS	15,000.00	\$ 15,000.00	L			F
	Light Pole w/ Concrete Base	4	EA	6,000.00	\$ 24,000.00	L			F
				Subtotal	\$ 153,500.00				
				General Requirements 15%	\$ 23,025.00				
				Subtotal	\$ 176,525.00				
				Contingency 10%	\$ 17,652.50				
				<b>TOTAL</b>	<b>\$ 194,177.50</b>				
<b>TOTAL OF PHASE I, II &amp; III</b>					<b>\$ 1,069,684.00</b>				

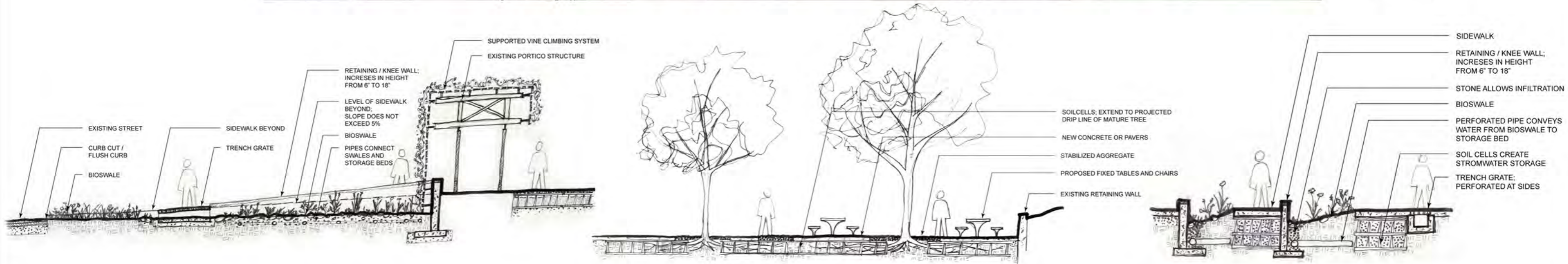
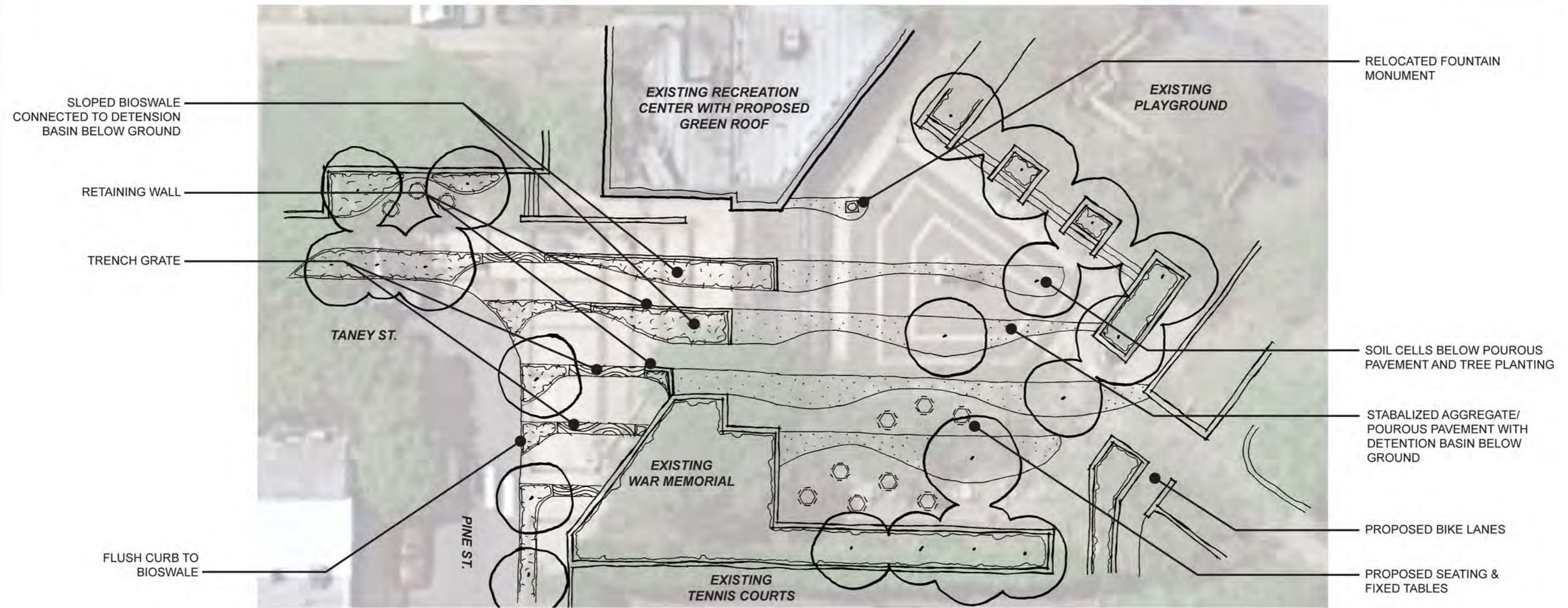
# Conceptual Design

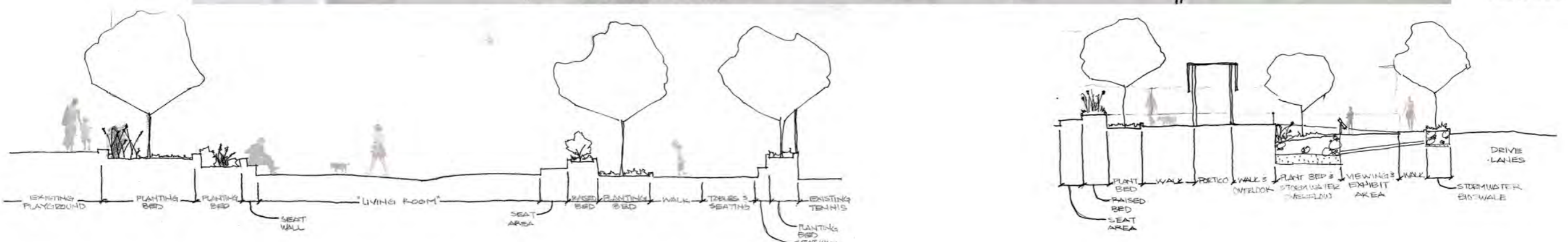
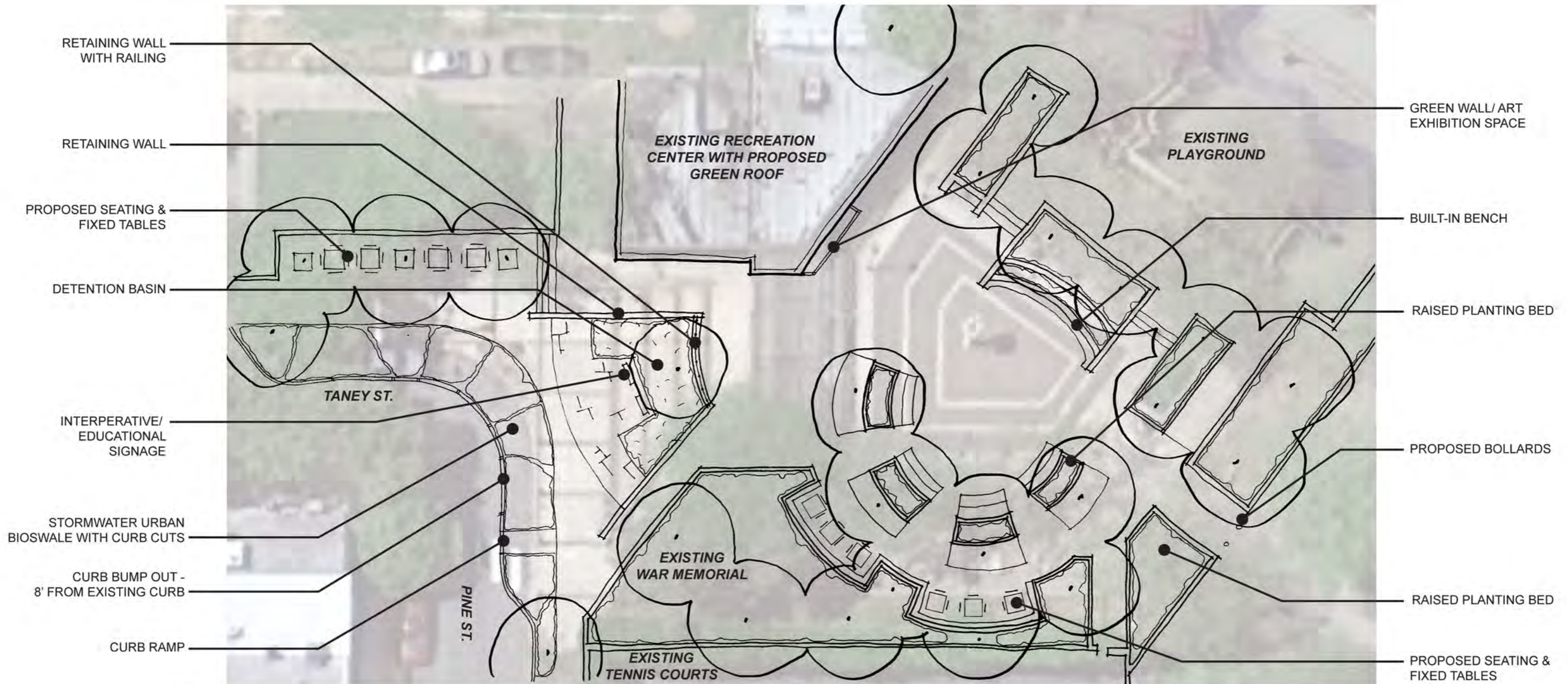
**Schuylkill River Park**

**Conceptual Design for Gateway Improvements**

**2010-12**

Preliminary  
Options





Project number  
2010-12  
Date  
10.19.2010  
Scale  
As Noted

### Schuylkill River Park - Conceptual Design for Gateway Improvements

#### Option 2 - Plan & Section Diagrams

The Community Design Collaborative's products are intended to provide visual concepts and to assist in project design and planning. All drawings are limited to conceptual design and are neither intended nor may be used for construction. Neither the Community Design Collaborative nor the project volunteers assume responsibility or liability for the technical accuracy of drawings or for any unauthorized use.

# Description of Services

**Schuylkill River Park**

**Conceptual Design for Gateway Improvements**

**2010-12**

# Value of Services Calculation Sheet

Schuylkill River Park  
*Conceptual Design for Gateway Improvements*  
 2010-12  
 February 2011

<b>VOLUNTEER</b>	<b>PROFESSION</b>	<b>HOURS</b>	<b>RATE*</b>	<b>VALUE</b>
Ari Miller	Landscape Arch Designer	119	\$85	\$10,115
Jay DeFelicitis, RLA	Registered Landscape Arch	12	\$110	\$1,320
Allen Guenthner	Landscape Arch Designer	72	\$80	\$5,760
Daniel Stanislaw	Intern Architect	46	\$50	\$2,300
Cliff Schwinger, PE	Landscape Arch Designer	8	\$150	\$1,200
Lou Johnson	Cost Estimator	16	\$100	\$1,600
<b>STAFF</b>				
Heidi Segall Levy, AIA, Project Manager	Senior Architect	25	\$100	\$2,500
<b>TOTAL VALUE OF DESIGN SERVICES</b>				<b>\$24,795</b>

\* Billable Hourly Rates in the Philadelphia area for 2008

Principal (\$125 to \$220)  
 Senior Architect/Designer (\$100 to \$135)  
 Architect/Designer (\$70 to \$90)  
 Intern Architect/Designer (\$50 to \$65)  
 Senior Landscape Architectural Designer (\$100 to \$135)  
 Landscape Architectural Designer (\$70 to \$90)  
 Intern Landscape Architectural Designer (\$50 to \$65)  
 Planner (\$90 to \$115)  
 Historic Preservationist (\$90 to \$115)  
 Engineer (\$100 - \$150)  
 Cost Estimator (\$100 to \$135)  
 Senior Interior Designer (\$90 to \$135)  
 Interior Designer (\$50 to \$80)

Billable hourly rates are based on the 2005 American Institute of Architects Compensation Report and a survey of a representative sample of local design professionals. Revised in January 2008.

**COMMUNITY DESIGN**  
 COLLABORATIVE