

Community Presentation & Pop-up Collage Exhibit 9/9/2019



Project Team

Lead: Community Planning & Visualization Lab planviz.org
Rowan University

Consultant: Cerulean, LLC

Sponsors: CCMUA, Rowan University

Partners: Heart of Camden

Camden FireWorks

The People doing the work...

Community Planning & Visualization Lab

Project Manager – Mahbubur Meenar Asst Project Manager – Meghan Wren

Cerulean, LLC – Susan Harris

Oral histories/PhotoVoice – Megan Bucknum

Jennifer Kitson

Ted Howell

Student Researchers – Giavanni Rizzo

Devon Moulton

Cassandra Rodriguez

Dr . Meenar's Community Planning & Design Class

CCMUA – Andy Kricun Tim Feeney

HOC – Donna Helmes Holly Walker

FireWorks - Cassie MacDonald

Planning Process – GSI + Placemaking



Fall & Winter 2018

- Document Review
- Interviews/Oral Histories

Spring 2019

- Existing Conditions Analysis
- Field Observations
- Student Research
- Focus Group Professionals

Summer 2019

- PhotoVoice / Focus Groups
- More Interviews
- Draft Recommendations Tonight!

Fall 2019

- Revise & Compile
- Final Plan

GSI + Placemaking requires Community Engagement





















Types of Green Stormwater Infrastructure



Downspout planters



Parking lot retrofit



Tree trench



Naturalized areas



Rain garden

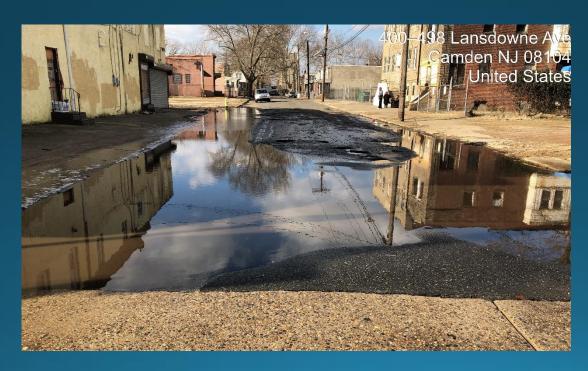


Green roof

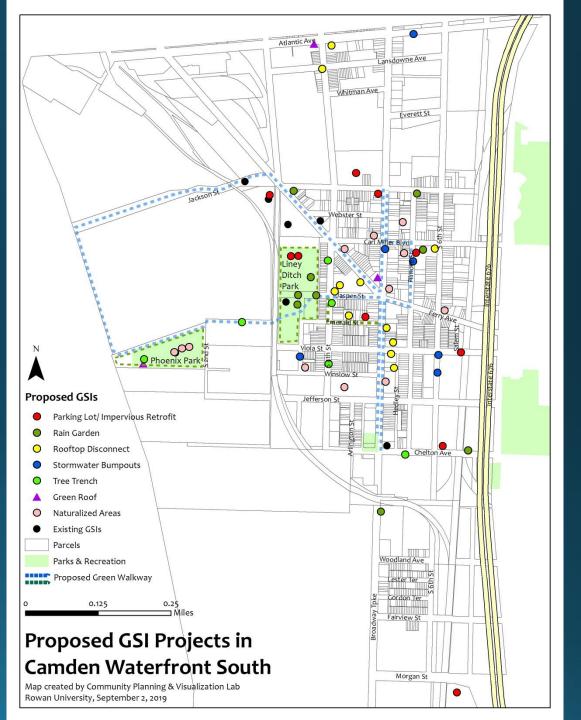
- Capture stormwater and use plants/soil/stone to clean it before it reaches the storm drain or river.
- Runoff from rooftops, parking lots and roadways can stored to reduce flooding

Why should we care?

- 15 Million people rely on the Delaware River Watershed as a drinking water source.
- Increased recreational value
- Health and Safety
- Clean Communities
- Reduce Flooding and pollution



Map of Identified GSI Locations



Broadway Naturalization



Current Condition



Rendering of Naturalized area

Parking lot retrofits

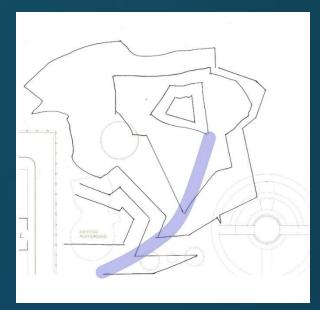
Subsurface storage features can provide up to 90% void space for stormwater management. This system is ideal for retrofitting impervious areas where land is not available for installation of surface features.





Bioswale

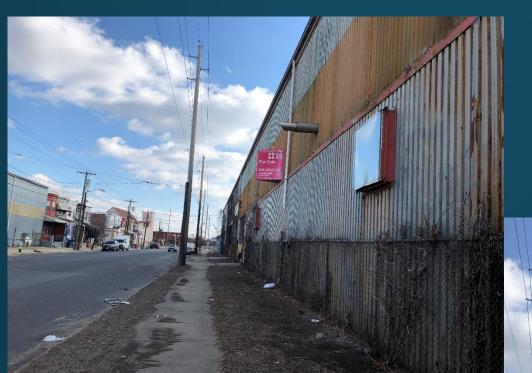
A bioswale will to filter runoff and promote groundwater recharge. Bioswales are planted deep rooted native flowers, grasses and shrubs.



Existing grade of conveyance feature







Rooftop capture into rain garden

Recommendation: Extend existing downspouts to reach ground level. Will

Rain gardens can be installed where rainwater runoff naturally drains and can be collected – like near a building where downspouts capture roof runoff or where water from the roof, lawn and other impervious surfaces flows.



Stormwater Bumpout

Curb extension that allows drainage to be filtered through vegetated system before entering storm inlet



GSI Prioritization



Triple Bottom Line approach Environmental, Economic, and Social Benefits

How much stormwater can be managed?
How is the land currently used?
Pollutant removal efficiency of proposed project
Ability to secure match and build partnerships

Ranking for Priority List

Each project was ranked for its environmental and economic benefits.

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Large Park Projects											
-	Phoenix Park	CCMUA	multiple projects	2.45				0	2 9	X	
- 0	Park linkage Trail	CCMUA	shade trees & exercise stations			x			ie 3		
3 Liney Ditch Park City/CCMUA multiple projects 11.72 x x											
Special CCMUA Projects & Demonstration Projects at NGOs											
40	Atlantic & 4th	NJ transit	bus shelter with green roof				200		9		x
100	Broadway & Ferry		bus shelter with green roof			-		-	-		v
-	broadway d. criy		parking subsurface water storage;	-			2000		.00		_
26	Jackson Street	CCMUA	gateway to fishing pier	n/a				×			
2/	Jackson and Ferry	CCMUA	rain garden with two new inlets	0.00579		38	х	2			
/12	Carl Miller, Ferry, & 4th	Camden City	green traffic island & crosswalks	0100373			10.00	9	2	-	
_	continuity ren yy a sen	carriacir city	Porous pavement + GSI demonstration	-						-	
35	FireWorks Backyard/Alley	Camden Fireworks	projects		ж		×	х			×
- 55	1840 Broadway	нос	downspout planters	0.032	х						
	Carl Miller & 6th	Camden Board of	Rain garden around flagpole.	0.735			×	100			
551	Co	Education	Downspout planter & storage,	0,733	x			9	9 0		
		Eugenauni.	Depave where possible				2.5	X	8	- 2	
		South Camden	existing landscape beds								
30	400 Jasper Street	Theater	elevated/expanded to provide	0.07	х	х		99	90		
19.1	1912 Broadway	Shipyard Museum	downspout planter	0.202	х						
100000			back comer downspout planter		х			-			
101	S. 4th St & Jasper St	Sacred Heart Church	cistern through drip irrigation	2.39	X	-	3000	-	(4)	2	
10.1	3. 4th 3t 6t asper 3t	Sacred Heart Church	Downspout planter	3	х			8	8 3		- 1
		- A	Downspout planter	1							
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-			ty; highlighted = recommended first pha			000			10. 00		
15	600 Morgan Street	Covanta	remove impervious/ make meadow	18.77		450	igo:	×	16 N		
F 12.00	1832 Bro adway	HOC	parking lot retrofit - subsurface storage	× 1/5500	-	200	2000	×	(S) (S)	-	
The second second	4th st reet Viola to Jefferson	Camden City	tree trenches along 4th St.			v	0.000		(E) 1/2		
34	433 Jackson Street		parking lot retrofit/subsurface storage	2,80		^			20 9	- 6	
100000	930 South 6th	So Jersey Port Corp Colonial Processing		1.69				X	2		
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	1700 Block S. 4th st	Camden City	multiple locations for tree trench	n/a		x		00	20 2		
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	Stormwater bumpouts			200000		200	0.00	8)	0 0		
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24	400 Block Atlantic	NO 14 DEC 1	stomwater bumpout	n/a	5		100	0	×		
37	Carl Miller & Filmore	Camden City	stomwater bumpouts						ж		
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	along 6th street	Camden City?	Stormwater bumpout	unknown		X			Х		П
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50.100	613 Chelton	NJDOT	linear rain garden - outlet to inlet on	n/a		L	X				Ш
. 700	Salem & Viola	Camden City?	refer to concept in folder	0.04591				Х	5 8	- 1	ш
4000	Jackson & Filmore	Metro Investment	Rain Garden & Mural	0.04			X	N.	20.0		
	2210 Broadway 1621 Broadway	HCSC - Laundry 1621 Broadway LLC	retentive slope grade - reduce	1.46		L	×	-	02 0	_	\vdash
_			reduce impervious cover nizations to manage, installation &	maints	in				5 1		_
			ler meadows with uniform specifications through								
5	400 Carl Miller	Camden Redev	plantings behind stone circle	0.37		Г				X	П
6	Broadway & Carl Miller	Camden City	plantings behind stone circle #2	0.049		8	30%	8	8 8	-	П
7	331 Winslow	Camden City	More natural - plantings	0.0238				100		×	
277	1914 Broaodway/160 Viola	Camden City	additional plantings	0.45						X.	
	630 Ferry Ave	Camden City	additional plantings	0.04		Г			8 8	×	
	1736 Broadway	Camden City	plantings	0.0459						×	
0.00	1707 Fillmore St	Camden City	natural plantings	0.021	0			37	S 3	-	Ш
	Rescue Mission	Rescue Mission	Vegetable Garden (lots behind?)	0.23		_		20	83 0	8	Ш
8	400 Block Winslow- old stack/tower	E-Zone Mgt	convert to factory site to meadow	1.7		Ц	Ш			100	Ш



Social (People) Factors Counted, too...

	Anticipated willingness of landowner to participate?	High = 3 pts. Moderate = 2pts Low = 1 pts.			
	Will the project make the community more attractive?	High = 3 pts. Moderate = 2pts Low = 1 pts.			
	Does the project intend to engage in education and volunteer oriented activities and/or is it socially functional?	Yes, A lot = 3 pts. Some = 1- 2pts No = 0 pts.			
Social Outcomes	Is the project forging new community partners?	Yes 2 No = 0 pts.			
	Visibility of proposed project location?	High = 3 pts. Moderate = 2pts Low = 1 pts.			
	Is the project publically accessible?	High = 3 pts. Moderate = 2pts Low = 1 pts.			
	Was this area identified as a priority during community events, photos/interviews?	Yes, A lot = 3 pts. Some = 1- 2pts No = 0 pts.			
		Subtotal Social			

You told us what you cared about...















We Listened...

More Placemaking Projects

Neighborhood Green Walkway

Interpretive panels at key community assets

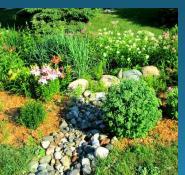
- Wayfinding signage throughout
- > Storm drain stenciling at all inlets
- Maritime sculptures and public art interspersed at green spaces
- Periodic exercise stations
- Brick archways at gateways— Jackson & Chelton at Broadway Jackson St to Pier & both Park entrances

Neighborhood Engagement Projects

- •Block Captains & Teams for green space maintenance.
- Stormwater Inlet litter patrol
- •Rain Barrel decorating workshops
- Rock painting parties to place throughout neighborhood













GREENING WATERFRONT SOUTH

Next Steps Feedback/Survey

Implementation