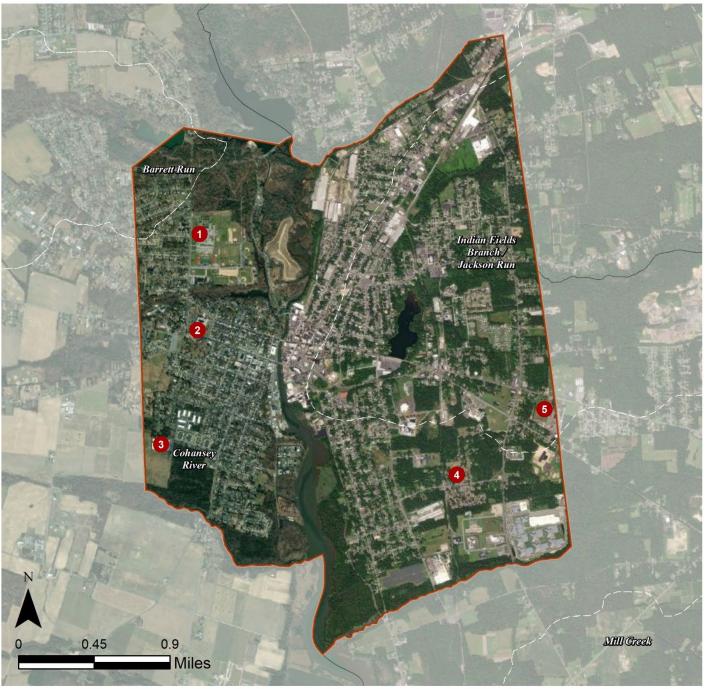
BRIDGETON CITY: GREEN INFRASTRUCTURE SITES



SITES WITHIN THE COHANSEY RIVER SUBWATERSHED

- Bridgeton High School
- Broad Street Elementary School & Bridgeton Middle School
- Quarter Mile Lane School
- 4. Saint Phillip's Missionary Baptist Church SITES WITHIN THE INDIAN FIELDS BRANCH/JACKSON **RUN SUBWATERSHED**
- Bridgeton Public Charter School

BRIDGETON HIGH SCHOOL





Subwatershed: Cohansey River

Site Area: 2,579,490 sq. ft.

Address: 111 West Avenue North

Bridgeton, NJ 08302

Block and Lot: Blocks 283; 284; 285

Lots 2; 1 & 2; 1

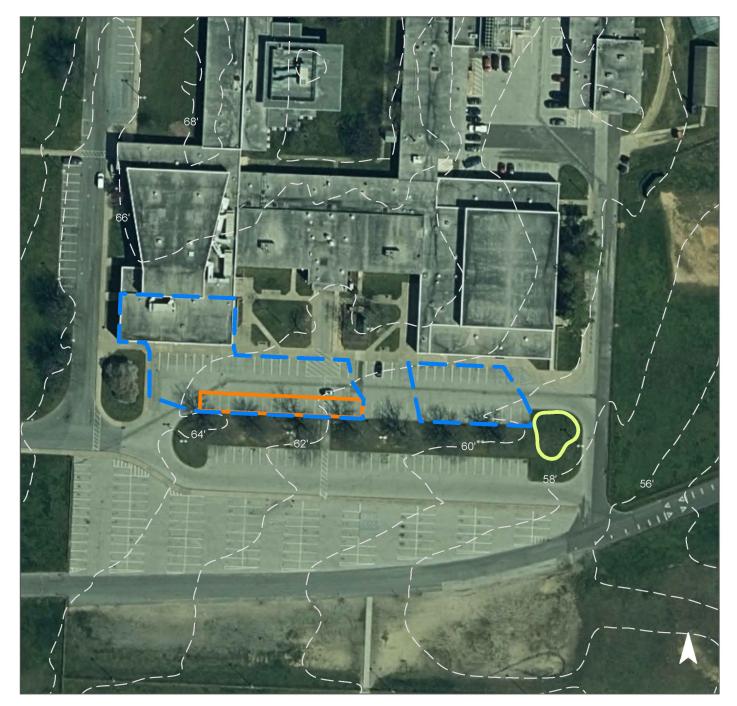




Three downspouts at the southwest corner of the building can be disconnected to a section of pervious pavement parking spots to treat and infiltrate the stormwater runoff from both the building and parking lot. A rain garden can be installed in the eastern island to capture, treat, and infiltrate parking lot runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervio	ous Cover		sting Loads f		Runoff Volume from Impervious Cover (Mgal)				
0/0	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"			
33	858,410	41.4	433.5	3,941.3	0.669	23.54			

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr)	TSS Removal Potential (lbs/yr)	Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost	
Bioretention system	0.174	29	12,650	0.48	1,645	\$8,225	
Pervious pavement	0.496	83	36,050	1.35	3,400	\$85,000	





Bridgeton High School

- bioretention system
- pervious pavement
- drainage area
- [] property line
- 2015 Aerial: NJOIT, OGIS

BROAD STREET ELEMENTARY SCHOOL & BRIDGETON

GERS
Usersey Agricultural eriment Station

MIDDLE SCHOOL

Subwatershed: Cohansey River

Site Area: 549,305 sq. ft.

Address: 251 West Broad Street

Bridgeton, NJ 08302

Block and Lot: Block 271, Lot 1





Two sections of pervious pavement parking spaces can be installed at the low side of the parking lots. This will capture and infiltrate parking lot runoff. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervio	ous Cover		sting Loads f vious Cover		Runoff Volume from Impervious Cover (Mgal)				
0/0	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"			
56	306,115	14.8	154.6	1,405.5	0.239	8.40			

Recommended Green Infrastructure Practices	Recharge Potential (Mgal/yr) TSS Removal Potential (lbs/yr)		Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.356	60	25,890	0.97	2,600	\$65,000





Broad Street Elementary School & Bridgeton Middle School

- pervious pavement
- drainage area
- **[]** property line
 - 2015 Aerial: NJOIT, OGIS

QUARTER MILE LANE SCHOOL





Subwatershed: Cohansey River

Site Area: 290,620 sq. ft.

Address: 300 Quarter Mile Lane

Bridgeton, NJ 08302

Block and Lot: Block 207, Lot 2

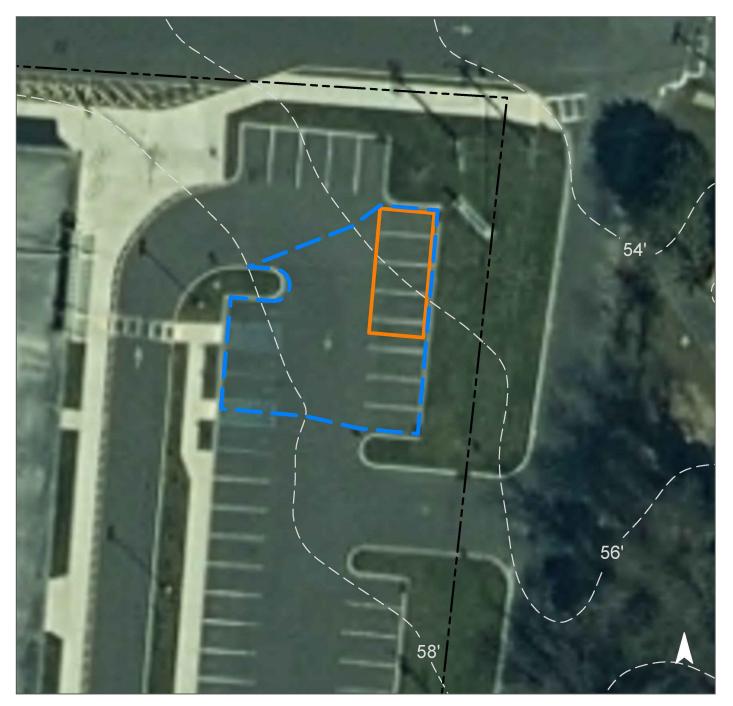




To manage parking lot runoff, parking spaces in the northeastern corner of the parking lot can be converted to pervious pavement. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervio	ous Cover		sting Loads f vious Cover		Runoff Volume from Impervious Cover (Mgal)				
0/0	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"			
89	258,895	12.5	130.8	1,188.7	0.202	7.10			

Recommended Green Infrastructure Practices	es Potential (Mgal/yr) Potential (lbs/yr)		Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.091	15	6,590	0.25	720	\$18,000





Quarter Mile Lane School

- pervious pavement
- drainage area
- [] property line
- 2015 Aerial: NJOIT, OGIS

SAINT PHILLIP'S MISSIONARY BAPTIST CHURCH





Subwatershed: Cohansey River

Site Area: 44,945 sq. ft.

Address: 275 Richardson Avenue

Bridgeton, NJ 08302

Block and Lot: Block 181,

Lots 5-9 & 18-21





Parking spaces in the center of the lot can be replaced with pervious pavement to capture and infiltrate the stormwater runoff from the parking lot. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.

Impervio	ous Cover		sting Loads f		Runoff Volume from Impervious Cover (Mgal)				
0/0	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"			
48	21,505	1.0	10.9	98.7	0.017	0.59			

Recommended Green Infrastructure Practices	ructure Practices Potential (Mgal/yr) Potential (lbs/yr)		Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Pervious pavement	0.083	14	6,020	0.23	960	\$24,000





Saint Phillip's Missionary Baptist Church

- pervious pavement
- drainage area
- **[]** property line
- ☐ 2015 Aerial: NJOIT, OGIS

BRIDGETON PUBLIC CHARTER SCHOOL





Subwatershed: Indian Fields

Branch/Jackson Run

Site Area: 818,125 sq. ft.

Address: 790 East Commerce Street

Bridgeton, NJ 08302

Block and Lot: Block 186, Lots 17-25





A section of parking spaces on the north side of the parking lot can be replaced with pervious pavement to capture parking lot runoff. A rain garden can be placed in the western section of the island to capture, treat, and infiltrate the parking lot runoff. A preliminary soil assessment suggests that more soil testing would be required before determining the soil's suitability for green infrastructure.

Impervio	ous Cover		sting Loads f		Runoff Volume from Impervious Cover (Mgal)				
0/0	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"			
51	416,980	20.1	210.6	1,914.5	0.325	11.44			

Recommended Green Infrastructure Practices	Potential		Maximum Volume Reduction Potential (gal/storm)	Peak Discharge Reduction Potential (cu. ft./second)	Estimated Size (sq. ft.)	Estimated Cost
Bioretention system	0.050	8	3,600	0.14	475	\$2,375
Pervious pavement	0.402	67	29,190	1.10	2,800	\$70,000





Bridgeton Public Charter School

- bioretention system
- pervious pavement
- drainage area
- [] property line
- 2015 Aerial: NJOIT, OGIS

	i								Existing Ar	nnual Loads	(Commercial)	Runoff Volumes from I.C. Water Quality Storm		Runoff Volumes fro	om I.C.
	!						I.C.	I.C.	LAISTING AT	maar Loads	(Commercial)	Water Quality Storm		Water Quality Storm	Į.
	Subwatershed/Site Name/Total Site Info/GI Practice	Area	Area	Block	Lot	I.C.	Area	Area	TP	TN	TSS	(1.25" over 2-hours)	Annual	(1.25" over 2-hours)	Annual
	i	(ac)	(SF)			%	(ac)	(SF)	(lb/yr)	(lb/yr)	(lb/yr)	(cu.ft.)	(cu.ft.)	(Mgal)	(Mgal)
•	Cohansey River Sites	78.50	3,419,415				32.68	1,423,420	68.6	718.9	6535.4	148,273	5,219,207	1.109	39.04
1	Bridgeton High School Total Site Info	59.22	2,579,490	3; 284; 2	£ 2; 1, 2; 1	33.2783	19.71	858,410	41.4	433.5	3941.3	89,418	3,147,503	0.669	23.54
2	Broad Street Elementary School & Bridgeton Middle Schoo Total Site Info	12.61	549,305	271	1	55.7277	7.03	306,115	14.8	154.6	1405.5	31,887	1,122,422	0.239	8.40
3	Quarter Mile Lane School Total Site Info	6.67	290,620	207	2	89.0837	5.94	258,895	12.5	130.8	1188.7	26,968	949,282	0.202	7.10
4	Saint Phillip's Missionary Baptist Church Total Site Info	1.03	44,945	181	5-9, 18-21	47.8474	0.49	21,505	1.0	10.9	98.7	2,240	78,852	0.017	0.59
	Indian Fields Branch/Jackson Run Sites	18.78	818,125				9.57	416,980	20.1	210.6	1914.5	43,435	1,528,927	0.325	11.44
5	Bridgeton Public Charter School Total Site Info	18.78	818,125	186	17 - 25	50.9678	9.57	416,980	20.1	210.6	1914.5	43,435	1,528,927	0.325	11.44

Summary of Proposed Green Infrastructure Practices

		Potential Man	agement Area			Max Volume	Peak Discharge					
				Recharge	TSS Removal	Reduction	Reduction	Size of	Unit		Total	I.C.
	Subwatershed/Site Name/Total Site Info/GI Practice	Area	Area	Potential	Potential	Potential	Potential	BMP	Cost	Unit	Cost	Treated
		(SF)	(ac)	(Mgal/yr)	(lbs/yr)	(gal/storm)	(cfs)		(\$/unit)		(\$)	%
	Cohansey River Sites	42,875	0.98	1.117	187	81,180	3.05				\$176,225	3%
1	Bridgeton High School											
	Bioretention system	6,680	0.15	0.174	29	12,650	0.48	1,645	\$5	SF	\$8,225	1%
	Pervious pavement	19,040	0.44	0.496	83	36,050	1.35	3,400	\$25	SF	\$85,000	2%
	Total Site Info	25,720	0.59	0.670	112	48,700	1.83				\$93,225	3%
2	Broad Street Elementary School & Bridgeton Middle Sch											
	Pervious pavement	13,675	0.31	0.356	60	25,890	0.97	2,600	\$25	SF	\$65,000	4%
	Total Site Info	13,675	0.31	0.356	60	25,890	0.97				\$65,000	4%
3	Quarter Mile Lane School											
	Pervious pavement	3,480	0.08	0.091	15	6,590	0.25	720	\$25	SF	\$18,000	1%
	Total Site Info	3,480	0.08	0.091	15	6,590	0.25				\$18,000	1%
4	Saint Phillip's Missionary Baptist Church											
	Pervious pavement	3,180	0.07	0.083	14	6,020	0.23	960	\$25	SF	\$24,000	15%
	Total Site Info	3,180	0.07	0.083	14	6,020	0.23				\$24,000	15%
	Indian Fields Branch/Jackson Run Sites	17,320	0.40	0.451	76	32,790	1.24				\$72,375	4%
5	Bridgeton Public Charter School											
	Bioretention system	1,900	0.04	0.050	8	3,600	0.14	475	\$5	SF	\$2,375	0%
	Pervious pavement	15,420	0.35	0.402	67	29,190	1.10	2,800	\$25	SF	\$70,000	4%
	Total Site Info	17,320	0.40	0.451	76	32,790	1.24				\$72,375	4%