

# 1<sup>ST</sup> CONSTITUTION BANK 140 MERCER STREET

This site currently has 42,400 square feet of impervious cover, creating 1.24 million gallons of stormwater runoff and dumping 127 pounds of pollutants into the Rocky Brook each year.

A bioswale in the rear of the parking lot will stop runoff from the neighboring parking area and strategically placed pervious pavement will capture runoff from parking and roof surfaces. A rain garden in the front will treat runoff from the sidewalk.

These measures will remediate 82.7% of the site's impervious cover and could remove 27.5 pounds of pollutants from the Rocky Brook annually and restore 975,000 gallons of water to the natural water cycle.



Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
42,393	79.8%	0.97	9.73	116.79	33,034	87,473	1,240,485

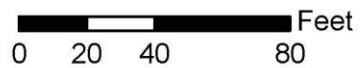
Table 2: BMPs

BMP Type	BMP Area (sq ft)	Removal Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Bioswale	1,391	0.02	0.10	3.45	10,942	147,411	\$6,957.43
Porous Pavement 1	3,636	0.05	0.42	8.01	30,700	413,601	\$43,631.84
Rain Garden	731	0.03	0.13	4.53	3,769	50,776	\$3,653.88
Porous Pavement 2	4,631	0.06	0.53	10.21	26,964	363,260	\$55,573.96
Total	10,389	0.16	1.17	26.20	72,375	975,048	\$109,817.11



**1ST CONSTITUTION BANK  
140 MERCER STREET**

-  Property Line
-  Drainage Area
-  Bioswale
-  Porous Pavement
-  Rain Garden



# CCL LABEL

## 118 STOCKTON STREET

This site currently has 81,600 square feet of impervious cover, creating 2.39 million gallons of stormwater runoff and dumping 245 pounds of pollutants into the Rocky Brook each year.

Installing porous pavement in parking spaces in the rear lot will remediate 38.9% of the site's impervious cover and could remove 20.1 pounds of pollutants from the Rocky Brook annually and restore 883,000 gallons of water to the natural water cycle.



Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
81,597	81.5%	1.87	18.73	224.79	63,582	168,366	2,390,703

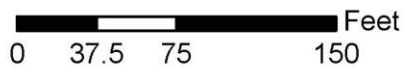
Table 2: BMPs

BMP Type	BMP Area (sq ft)	Removal Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Porous Pavement	8,617	0.12	0.99	18.99	65,521	879,252	\$103,403.54
Total	8,617	0.12	0.99	18.99	65,521	879,252	\$103,403.54



**CCL LABEL  
118 STOCKTON STREET**

-  Property Line
-  Drainage Area
-  Porous Pavement



# EMPIRE ANTIQUES

## 278 MONMOUTH STREET

This site currently has 133,000 square feet of impervious cover, creating 3.90 million gallons of stormwater runoff and dumping 400 pounds of pollutants into the Rocky Brook each year.

Depaving the unused portion of pavement and gravel and replacing it with a vegetated filter will treat the runoff from the delivery area, while a bioswale along the side of the property will capture runoff from the driveway and parking lot.

These measures will remediate 43.6% of the site's impervious cover and could remove 74.2 pounds of pollutants from the Rocky Brook annually and restore 1.61 million gallons of water to the natural water cycle.

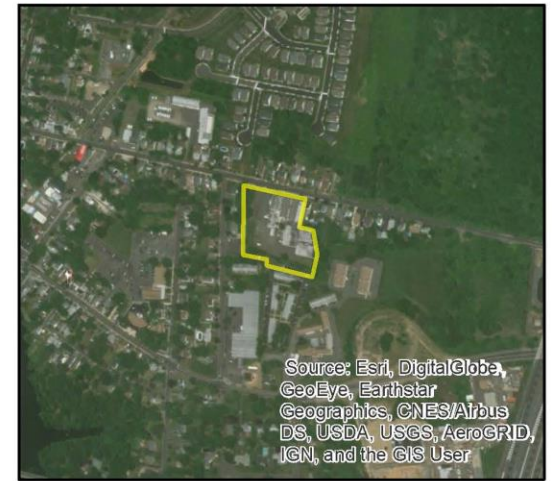


Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
133,072	71.7%	3.05	30.55	366.59	103,693	274,578	3,893,874

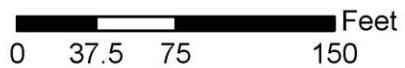
Table 2: BMPs

BMP Type	BMP Area (sq ft)	Removal Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Depave	17,501	0.00	0.00	0.00	36,111	486,496	\$35,001.22
Bioswale	4,393	0.06	0.30	10.89	43,156	581,407	\$21,965.75
Vegetated Filter	26,968	0.37	3.10	59.43	40,411	544,429	\$80,905.44
<b>Total</b>	<b>48,862</b>	<b>0.43</b>	<b>3.40</b>	<b>70.33</b>	<b>119,678</b>	<b>1,612,332</b>	<b>\$137,872.40</b>



**EMPIRE ANTIQUES  
278 MONMOUTH STREET**

-  Property Line
-  Drainage Area
-  Bioswale
-  Depave
-  Vegetated Filter



# FIRST BAPTIST CHURCH

## 125 S MAIN STREET

This site currently has 104,000 square feet of impervious cover, creating 1.1 million gallons of stormwater runoff and dumping 114 pounds of pollutants into the Rocky Brook each year.

Replacing the sidewalks with porous pavement would capture and treat runoff from the roof. Together, a rain garden and vegetated filter would help treat much of the runoff from the parking lot.

These measures will remediate 64.6% of the site's impervious cover and could remove 31.8 pounds of pollutants from the Rocky Brook annually and restore 679,000 gallons of water to the natural water cycle.

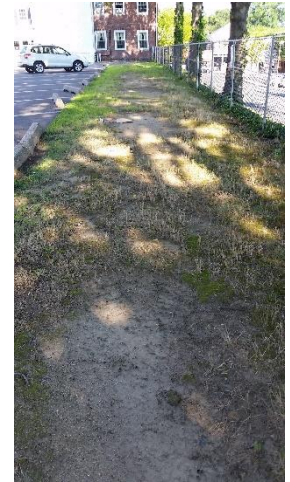
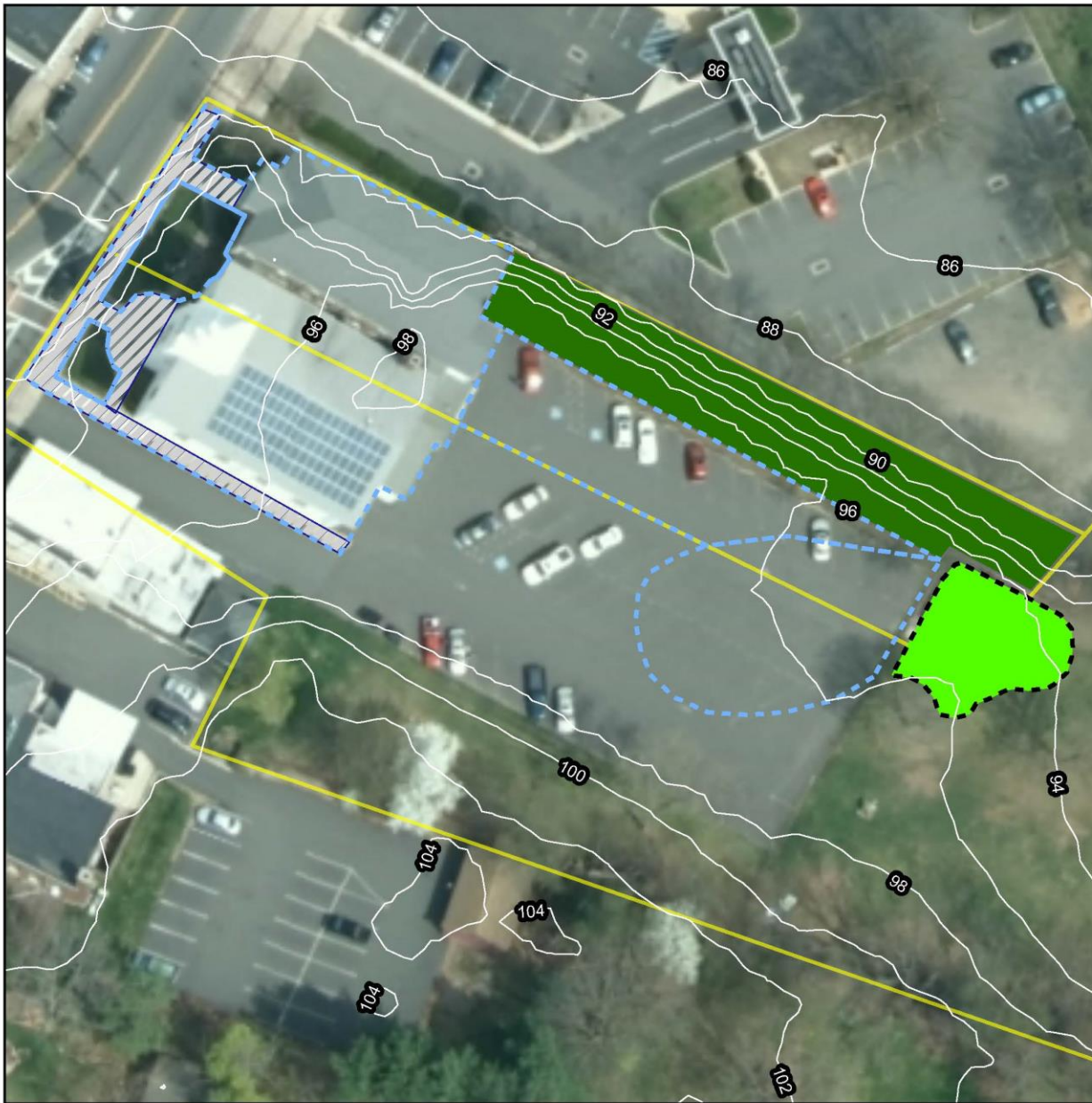


Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
104,367	36.2%	0.87	8.67	104.03	29,425	77,918	1,104,980

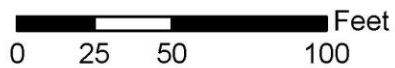
Table 2: BMPs

BMP Type	BMP Area (sq ft)	Removal Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Vegetated Filter	6,309	0.04	0.43	12.17	9,983	134,490	\$18,927.66
Rain Garden	2,203	0.07	0.36	13.13	10,930	147,251	\$4,406.23
Porous Pavement	2,380	0.03	0.27	5.24	29,461	396,905	\$28,554.92
Total	10,892	0.15	1.07	30.54	50,374	678,646	\$51,888.81



**FIRST BAPTIST CHURCH  
125 S MAIN STREET**

-  Property Line
-  Drainage Area
-  Porous Pavement
-  Rain Garden
-  Vegetated Filter





# FIRST UNITED METHODIST CHURCH

## 187 STOCKTON STREET

This site currently has 47,300 square feet of impervious cover, creating 931,000 gallons of stormwater runoff and dumping 95.7 pounds of pollutants into the Rocky Brook each year.

A rain garden along the sidewalk could treat all of the runoff from the roof, while porous pavement in the parking spaces on the far side of the parking lot would treat much of the parking lot.

These measures will remediate 55.0% of the site's impervious cover and could remove 11.0 pounds of pollutants from the Rocky Brook annually and restore 487,000 gallons of water to the natural water cycle.



Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
47,326	67.2%	0.73	7.30	87.65	24,794	65,653	931,049

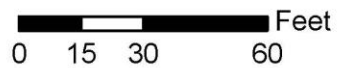
Table 2: BMPs

BMP Type	Area (sq ft)	Removal Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Rain Garden	2,336	0.03	0.16	5.79	12,188	164,194	\$11,682.44
Porous Pavement	2,127	0.03	0.24	4.69	23,951	322,667	\$25,518.30
Total	4,463	0.06	0.41	10.48	36,138	486,861	\$37,200.74



**FIRST UNITED METHODIST CHURCH  
187 STOCKTON STREET**

-  Property Line
-  Drainage Area
-  Porous Pavement
-  Rain Garden



# HIGHTSTOWN FIRE DEPARTMENT 140 NORTH MAIN STREET

This site currently has 18,900 square feet of impervious cover, creating 553,000 gallons of stormwater runoff and dumping 56.8 pounds of pollutants into the Rocky Brook each year.

A 2,200 gallon cistern would capture and store runoff from the roof for the Fire Dept's later use, and a vegetated filter would help remove pollutants from the parking lot runoff before it reaches the stream.

These measures will remediate 59.0% of the site's impervious cover and could remove 8.83 pounds of pollutants from the Rocky Brook annually and restore 310,000 gallons of water to the natural water cycle.

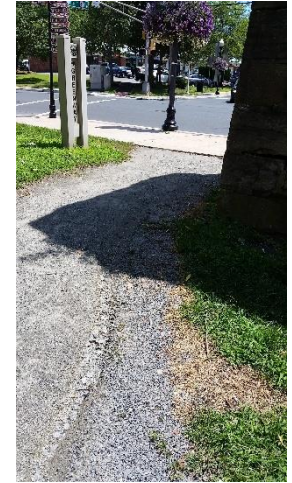


Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
18,893	63.4%	0.43	4.34	52.05	14,722	38,983	552,831

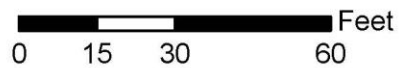
Table 2: BMPs

BMP Type	BMP Area (sq ft) or Capacity (gal)	Removal Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Cistern	2,200	0.00	0.00	0.00	16,144	217,498	\$4,400.00
Vegetated Filter	4,410	0.03	0.30	8.50	6,855	92,352	\$22,048.14
Total	6,610	0.03	0.30	8.50	22,999	309,851	\$26,448.14



## HIGHTSTOWN FIRE DEPARTMENT 140 N MAIN STREET

-  Property Line
-  Drainage Area
-  Cistern
-  Vegetated Filter



# HIGHTSTOWN HIGH SCHOOL

## 25 LESHIN LANE

This site currently has 1.24 million square feet of impervious cover, creating 17.6 million gallons of stormwater runoff and dumping 1,810 pounds of pollutants into the Rocky Brook each year.

Naturalizing the existing stormwater basin will treat a large percentage of the runoff from the driveways, roof and nearby parking lots, as well as the tennis courts. Porous pavement, along with a rain garden installed in the median, will capture and treat runoff from the rear lot.

These measures will remediate 38.5% of the site's impervious cover and could remove 456 pounds of pollutants from the Rocky Brook annually and restore 6.43 million gallons of water to the natural water cycle.



Table 1: Site Information






Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
1,243,952	48.3%	13.80	138.01	1,656.17	468,461	1,240,484	17,591,647

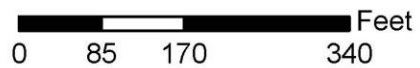
Table 2: BMPs

BMP Type	BMP Area (sq ft)	Removal Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Rain Garden	4,916	0.03	0.68	12.19	25,076	337,828	\$24,578.08
Porous Pavement	7,683	0.11	0.88	16.93	109,987	1,481,770	\$92,198.52
Stormwater Basin Naturalization	25,229	2.29	11.43	411.58	342,530	4,614,632	\$126,145.01
Total	37,828	2.43	12.99	440.70	477,593	6,434,229	\$242,921.60



## HIGHTSTOWN HIGH SCHOOL 25 LESHIN LANE

-  Property Line
-  Drainage Area
-  Porous Pavement
-  Rain Garden
-  Stormwater Basin  
Naturalization



# HIGHTSTOWN LIBRARY – MEMORIAL BRANCH

## 114 FRANKLIN STREET

This site currently has 9,390 square feet of impervious cover, creating 275,000 gallons of stormwater runoff and dumping 28.3 pounds of pollutants into the Rocky Brook each year.

Repaving the concrete lookout area and installing a bioswale along the bank, will capture and treat runoff from the roof of the library before pollutants reach the lake.

These measures will remediate 76.2% of the site's impervious cover and could remove 9.44 pounds of pollutants from the Rocky Brook annually and restore 199,000 gallons of water to the natural water cycle.



Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
9,392	31.1%	0.22	2.16	25.87	7,319	19,380	274,830

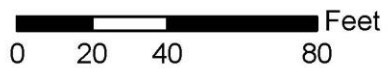
Table 2: BMPs

BMP Type	BMP Area (sq ft)	Removal Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Bioswale	556	0.04	0.22	7.90	6,574	88,560	\$2,781.74
Porous Pavement	550	0.01	0.06	1.21	8,186	110,289	\$6,597.17
Total	1,106	0.05	0.28	9.11	14,760	198,849	\$9,378.90



**HIGHTSTOWN LIBRARY  
MEMORIAL BRANCH  
114 FRANKLIN STREET**

-  Property Line
-  Drainage Area
-  Bioswale
-  Porous Pavement





# ROCKY BROOK PARK

## 170 BANK STREET

This site currently has 46,011 square feet of impervious cover, creating 1.35 million gallons of stormwater runoff and flushing 138 pounds of pollutants into the Rocky Brook each year.

Removing existing impervious surfaces and installing a vegetative filter and pervious pavement would remediate 76.6% of the site's impervious cover and could remove 41.5 pounds of pollutants from Rocky Brook annually and restore 981 thousand gallons of water to the natural water cycle.



Table 1: Site Information

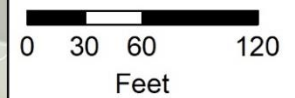
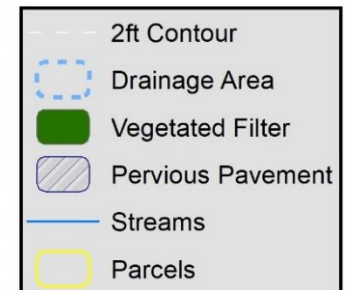
Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
46,011	22.0%	1.06	10.56	126.75	35,853	94,938	1,346,341

Table 2: BMPs

BMP Type	BMP Area (sq ft)	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Vegetated Filter	17,313	0.12	1.19	33.39	29,033	391,134	\$86,567.45
Porous Pavement	2,926	0.04	0.34	6.45	43,774	589,738	\$43,888.50
Total	20,239	0.16	1.53	39.84	72,807	980,873	\$130,455.95



## Rocky Brook Park



Data Sources: NJ Dept. of Environmental Protection - NJ 2015 Natural Color Imagery; Boundary 2014, LULC 2015, Stream 2002; and FEMA NFHL 01052018. This secondary map product has not been verified or authorized by the source agency. Map created by the GIS Center of the Stony Brook-Millstone Watershed Association 03/2020. Project: HightstownBoro\_HightstownDevelopment.mxd



# SAINT ANTHONY OF PADUA CHURCH

## 251 FRANKLIN STREET

This site currently has 183,000 square feet of impervious cover, creating 5.35 million gallons of stormwater runoff and dumping 550 pounds of pollutants into the Rocky Brook each year.

Replacing parking spaces in strategic areas with porous pavement will remediate 46.1% of the site's impervious cover and could remove 32.7 pounds of pollutants from the Rocky Brook annually and restore 2.34 million gallons of water to the natural water cycle.



Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
182,819	74.1%	4.20	41.97	503.63	142,457	377,225	5,349,537

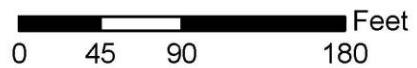
Table 2: BMPs

BMP Type	BMP Area (sq ft)	Reduction Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Porous Pavement 1	6,702	0.09	0.77	14.77	67,044	903,235	\$80,426.87
Porous Pavement 2	3,702	0.05	0.42	8.16	68,953	928,949	\$44,429.03
Porous Pavement 3	1,858	0.03	0.21	4.10	18,037	243,001	\$22,298.77
Porous Pavement 4	1,763	0.02	0.20	3.89	19,833	267,198	\$21,156.67
Total	14,026	0.19	1.61	30.91	173,868	2,342,383	\$168,311.34



**SAINT ANTHONY  
OF PADUA CHURCH  
251 FRANKLIN STREET**

-  Property Line
-  Drainage Area
-  Porous Pavement



# UNITED STATES POST OFFICE 150 MERCER STREET

This site currently has 128,000 square feet of impervious cover, creating 2.63 million gallons of stormwater runoff and dumping 270 pounds of pollutants into the Rocky Brook each year.

A vegetated filter along the side of the building will beautify a currently unused space and capture runoff from the loading area. A rain garden in the front of the building will help treat some of the roof runoff, and porous pavement in some of the parking spots will remediate much of the driveway.

These measures will remediate 40.3% of the site's impervious cover and could remove 63.7 pounds of pollutants from the Rocky Brook annually and restore 1 million gallons of water to the natural water cycle.

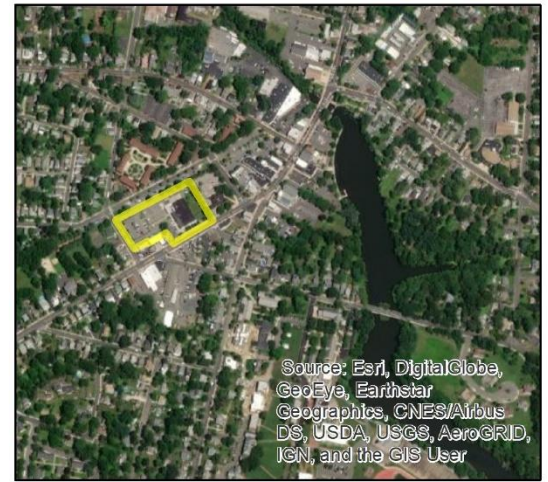


Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
128,338	70.1%	2.06	20.64	247.66	70,053	185,500	2,630,628

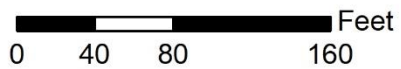
Table 2: BMPs

BMP Type	BMP Area (sq ft)	Removal Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Rain Garden	1,115	0.02	0.08	2.77	7,870	106,022	\$5,576.55
Porous Pavement 1	2,284	0.23	1.89	36.37	34,052	458,750	\$27,403.98
Porous Pavement 2	1,873	0.03	0.21	4.13	18,110	243,977	\$22,473.80
Vegetated Filter	8,991	0.06	0.62	17.34	14,713	198,221	\$26,973.39
Total	14,263	0.33	2.81	60.60	74,744	1,006,970	\$82,427.73



**UNITED STATES POST OFFICE  
150 MERCER STREET**

-  Property Line
-  Drainage Area
-  Porous Pavement
-  Rain Garden
-  Vegetated Filter



# WELLS FARGO 105 MAIN STREET

This site currently has 48,800 square feet of impervious cover, creating 1.28 million gallons of stormwater runoff and dumping 131 pounds of pollutants into the Rocky Brook each year.

Replacing the compacted gravel lot with pervious pavement, as well as installing gravel porous pavement in strategically placed parking spaces will remediate 50.2% of the site's impervious cover and could remove 16.4 pounds of pollutants from the Rocky Brook annually and restore 608,000 gallons of water to the natural water cycle.

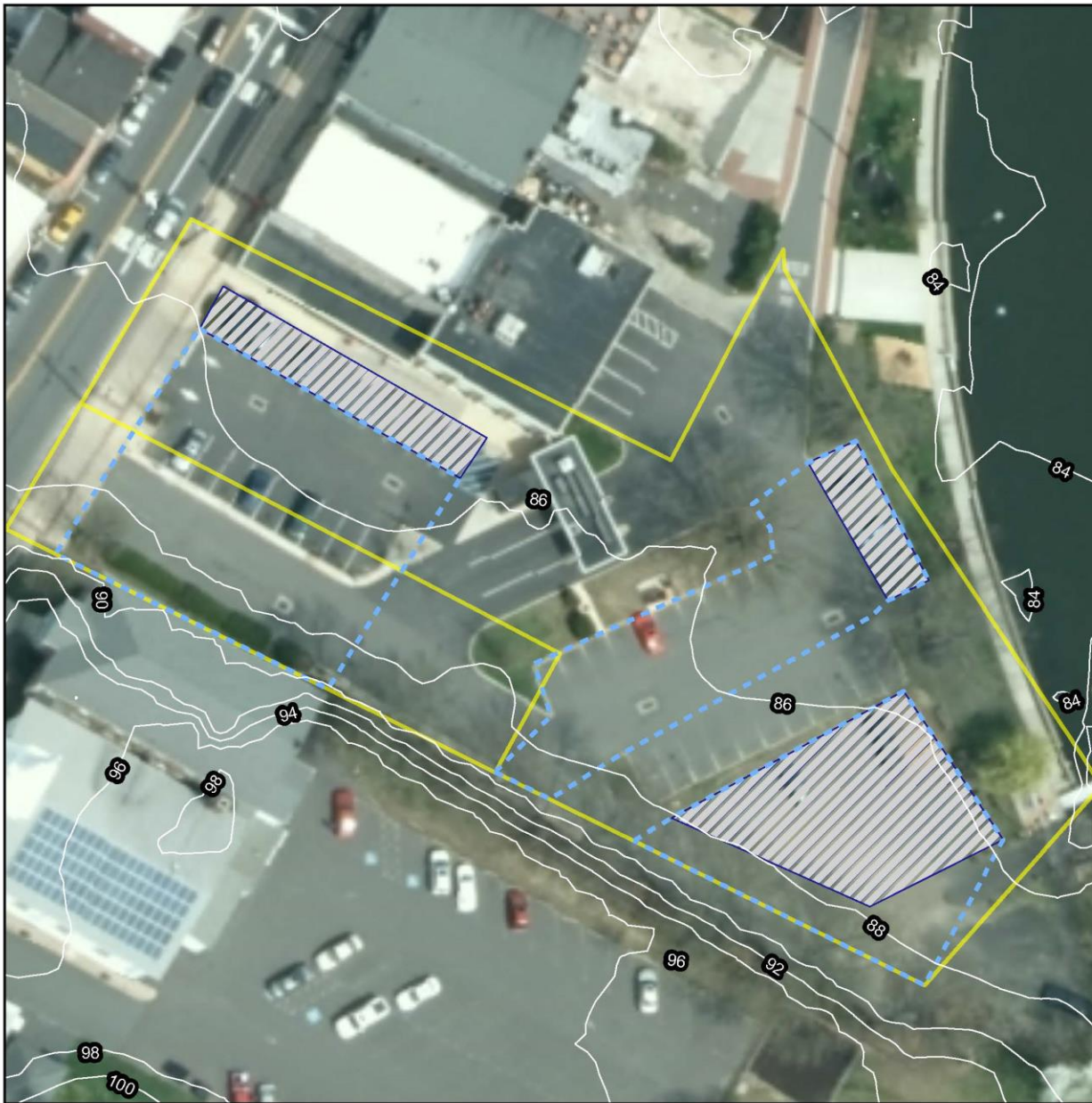


Table 1: Site Information

Impervious Cover		Existing Annual Loads (lb/yr)			Runoff Volume (gal)		
Square Footage	Percentage	TP	TN	TSS	Water Quality Storm	Two Year Storm	Annual Rainfall
48,757	89.4%	1.00	10.01	120.11	33,974	89,963	1,275,797

Table 2: BMPs

BMP Type	BMP Area (sq ft)	Removal Potential (lb/yr)			Maximum Volume Reduction Potential (gal/storm)	Recharge Potential (gal/year)	Estimated Cost
		TP	TN	TSS			
Porous Pavement 1	1,755	0.02	0.20	3.87	22,989	309,714	\$21,059.17
Porous Pavement 2	927	0.01	0.11	2.04	13,215	178,039	\$11,129.08
Porous Pavement 3	6,547	0.06	0.50	9.54	8,931	120,320	\$78,562.08
Total	9,229	0.10	0.80	15.45	45,135	608,073	\$110,750.33



## WELLS FARGO 105 MAIN STREET

-  Property Line
-  Drainage Area
-  Porous Pavement

