

Newtonville Volunteer Fire Department



Subwatershed: Three Pond Branch

Site Area: 748,468 sq. ft.

Address: 835 Route 54
Williamstown, NJ 08346

Block and Lot: Block 1808, Lot 20

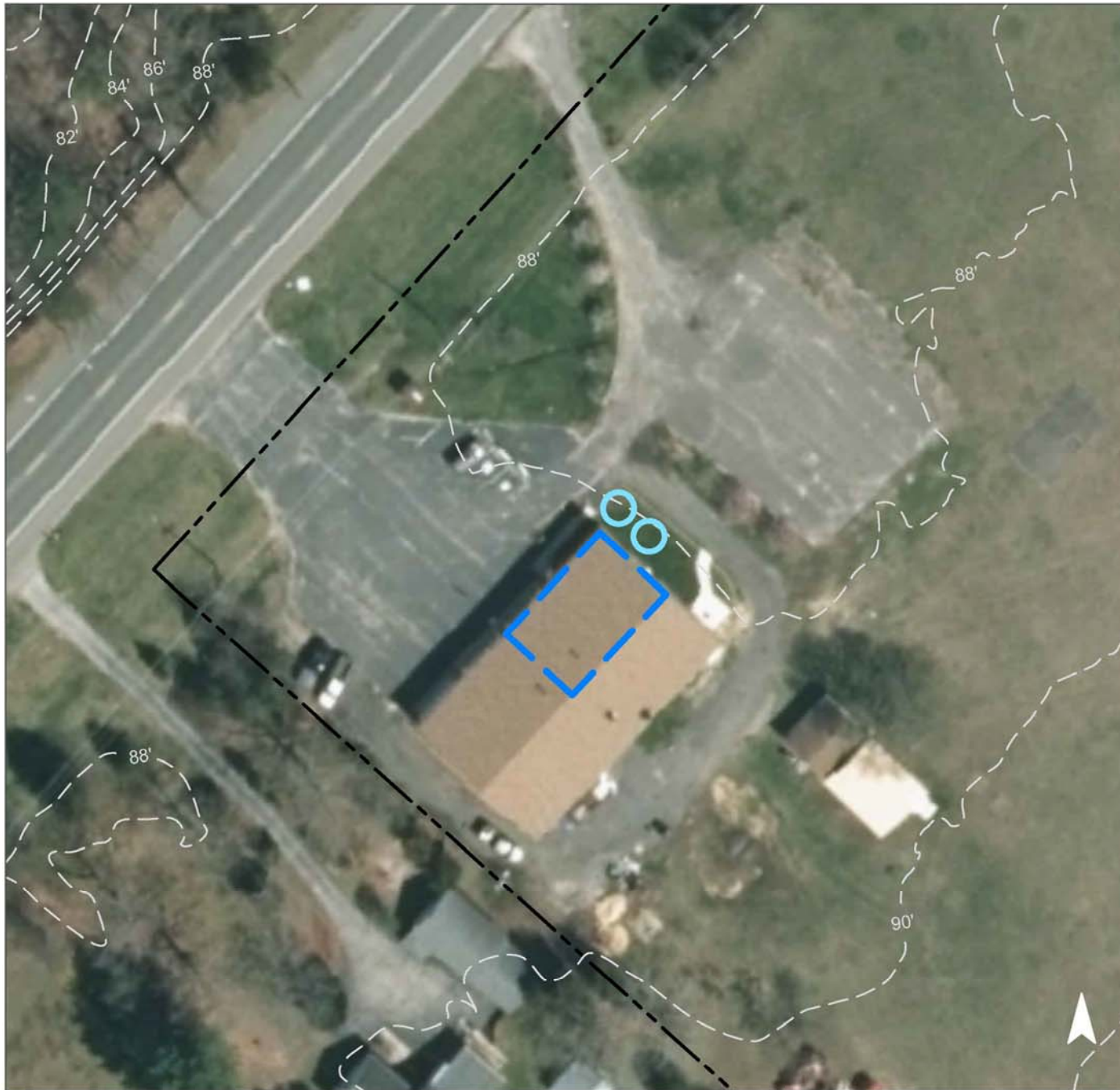


Cisterns can be placed in the north corner of the building to collect rooftop runoff and be used for watering gardens, washing vehicles, or for other non-potable uses. A preliminary soil assessment suggests that the soils have suitable drainage characteristics for green infrastructure.





Impervious Cover		Existing Loads from Impervious Cover (lbs/yr)			Runoff Volume from Impervious Cover (Mgal)	
%	sq. ft.	TP	TN	TSS	For the 1.25" Water Quality Storm	For an Annual Rainfall of 44"
4	33,072	1.6	16.7	151.8	0.026	0.91

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
Rainwater harvesting	0.049	8	1,460	0.06	1,460 (gal)	\$2,920

GREEN INFRASTRUCTURE RECOMMENDATIONS



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-  rainwater harvesting
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS

