

The Ukrainian House of Gospel



Subwatershed: South River

Site Area: 46,324 sq. ft.

Address: 204 Sewell Avenue
Richland, NJ 08350

Block and Lot: Block 4521, Lot 1

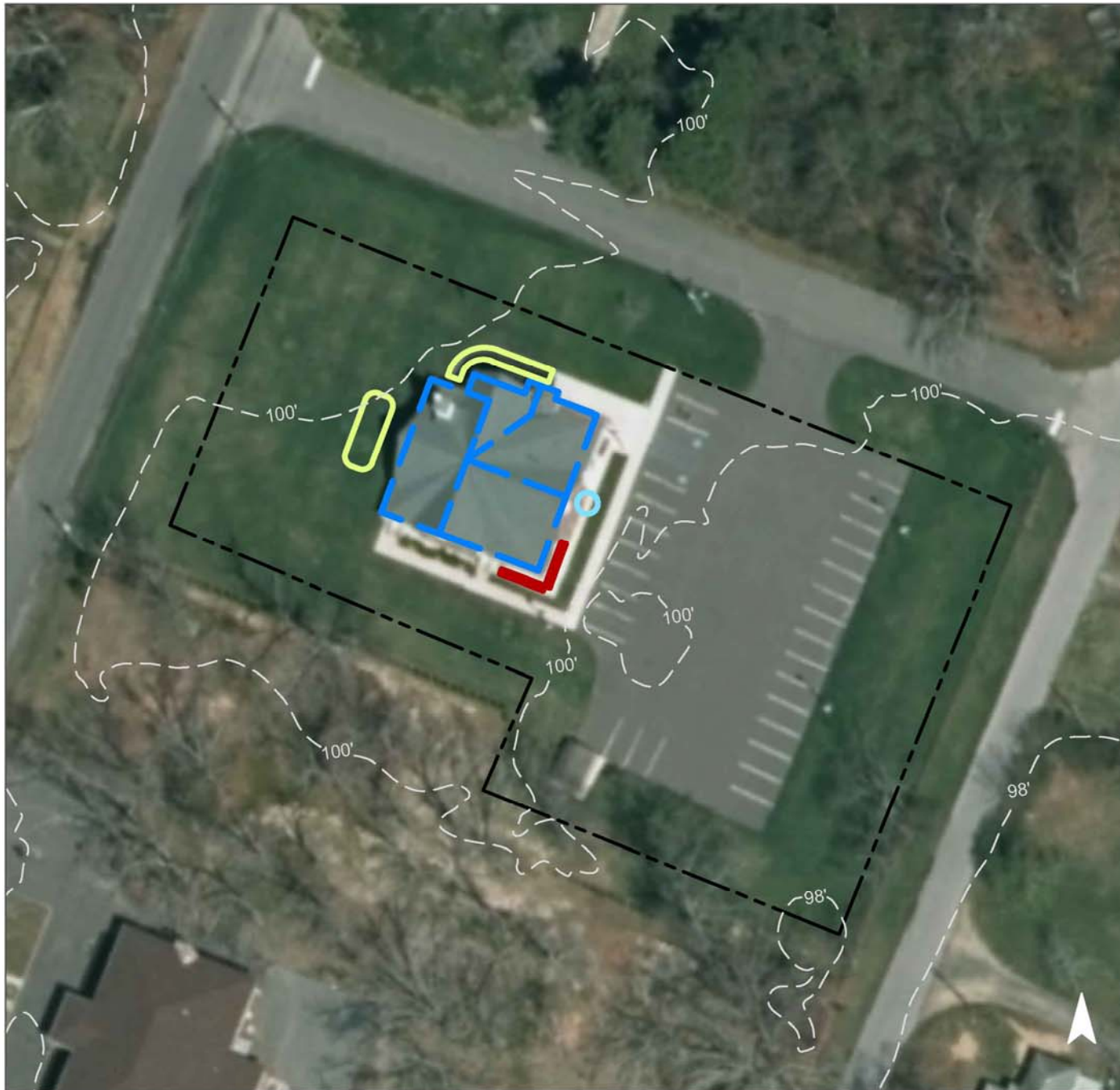


A rain garden can be installed along the north side of the building as well as another along the west of the building to capture, treat, and infiltrate rooftop runoff. Downspout planter boxes can be constructed around the southern corner of the building to allow roof runoff to be reused. A rainwater harvesting system can be placed on the east side 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 more soil testing would be required before determining the soil's suitability 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"
29	13,511	0.7	6.8	62.0	0.011	0.37

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 systems	0.045	8	3,340	0.13	545	\$2,725
Planter boxes	n/a	5	n/a	n/a	6 (boxes)	\$6,000
Rainwater harvesting	0.027	5	820	0.03	820 (gal)	\$1,640

GREEN INFRASTRUCTURE RECOMMENDATIONS



The Ukrainian House of Gospel

-  bioretention system
-  planter box
-  rainwater harvesting
-  drainage area
-  property line
-  2015 Aerial: NJOIT, OGIS

