



Asotin, 45th and Cushman Improvements

Why Treat Stormwater?

When it rains, oil and other pollutants are picked up in stormwater and can flow untreated into local waterways and ultimately Puget Sound. These pollutants have negative immediate and long-term impacts on surface water quality and fish habitat. Green stormwater infrastructure projects filter rain and stormwater runoff, benefiting the health of our waterways and the animals that live within them.

Asotin, 45th and Cushman

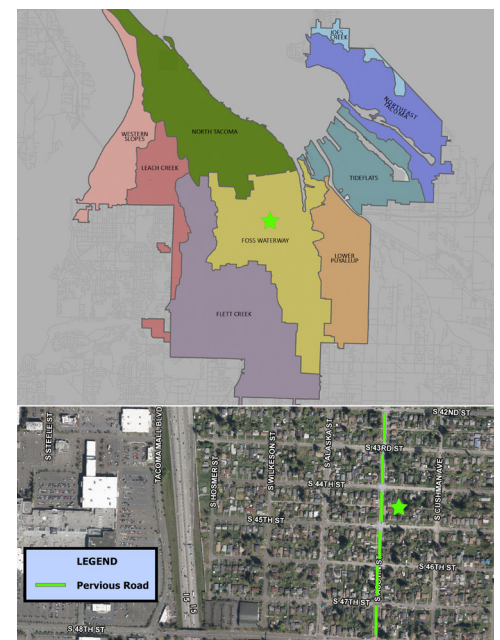
This new street was constructed with permeable pavement that allows the rainwater falling on the street to soak into the ground. This project was designed to reduce the quantity and improve the quality of water entering Wapato Lake and the Flett Creek Watershed.

Environmental Services and Tacoma Water also replaced storm sewer pipe and extended the water main in various locations. This required roadway improvements on half of South 45th Street from Asotin Street to Cushman Avenue and on Cushman Avenue from 44th Street to 46th Street.



Location

S 42nd St to S 43rd St through
S 47th St to S 48th St





Design

Green infrastructure was utilized to provide water quality treatment and flow control by allowing the infiltration of storm runoff from South Wapato Lake Drive, Asotin Court and contributing residential properties. This was accomplished through porous asphalt and a reservoir base course.

Green stormwater infrastructure was the most cost effective solution for this project. The life cycle cost of equivalent traditional design methods was estimated to be over twice the cost.



For More Information

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Project Description

This project replaced nearly two thousand feet of failed roadway that continually discharged sediment laden water directly into Wapato Lake. Aging sanitary sewer and water lines located underneath the roadway were replaced through utility partnerships. The porous asphalt roadway both treats and infiltrates nearly all 10 acres of contributing area. Sidewalks were constructed on both sides of the street and were complimented with over 85 native street trees. This sustainable project was designed and constructed utilizing Greenroads. Wapato Lake Drive was Silver Certified and Asotin Court was Bronze Certified.



During Construction



After Construction

Funding

