CHENEY STADIUM SUSTAINABLE STORMWATER PROJECT

About the Project

The Cheney Stadium Sustainable Stormwater Project was constructed using green infrastructure, complete streets techniques and power conservation elements. The City of Tacoma Environmental Services Department designed this sustainable roadway and commercial demonstration project to reduce the rainwater runoff and improve stormwater quality in Tacoma's Flett Creet and Leach Creek watersheds.

Project Accomplishments

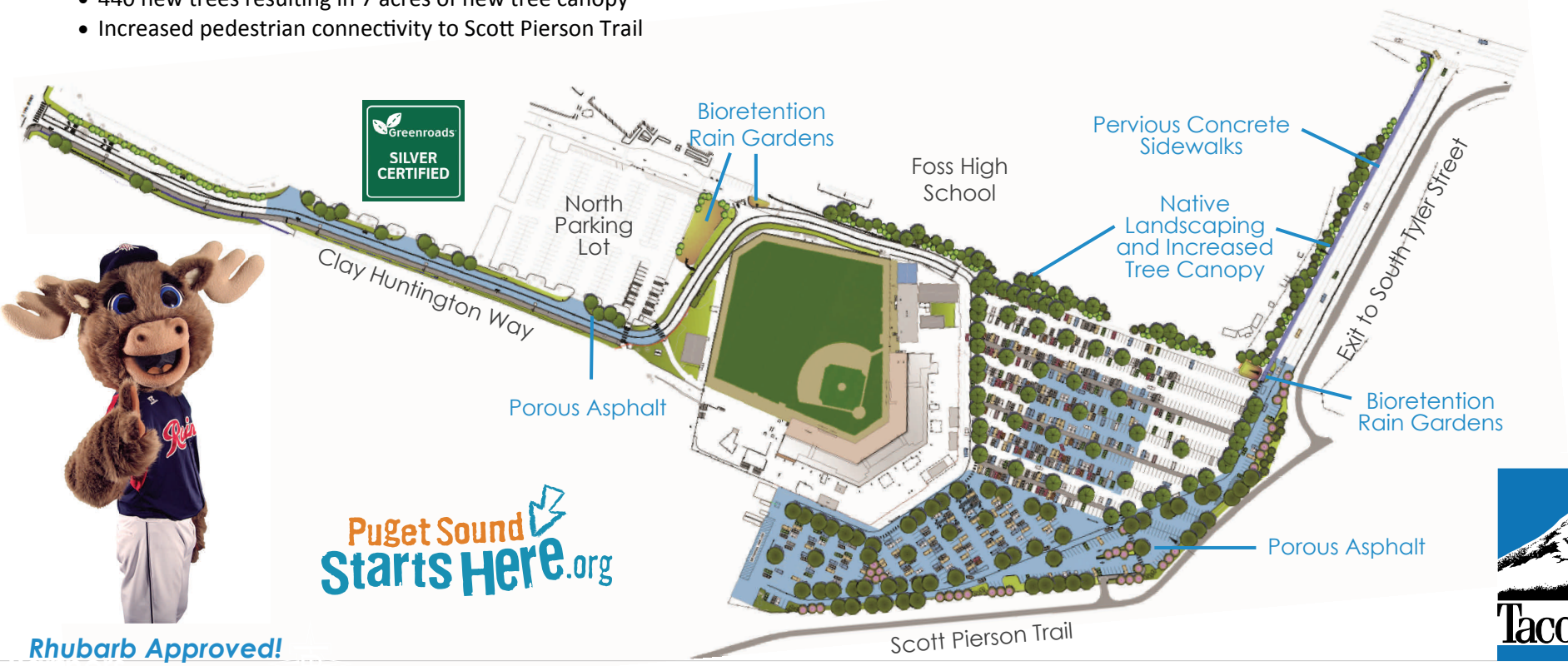
- 6 acres of permeable pavement infiltrating 11 acres
- Tacoma's first Greenroad – Clay Huntington Way
- 440 new trees resulting in 7 acres of new tree canopy
- Increased pedestrian connectivity to Scott Pierson Trail

Green Parking

Trying to make paradise out of a parking lot might seem like a stretch, but the pervious pavement and other green infrastructure used to reconstruct the Cheney Stadium parking lot, are about as close to forests and fields as an urban area can get, at least from a stormwater perspective.

Greenroads®

Greenroads® is a sustainability rating system for roadway design and construction. Clay Huntington Way received Silver Certification in 2012 and is the fourth certified Greenroad in the world.



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Green Infrastructure

Pervious Pavement

Allows rainwater to filter naturally through the pavement and into the soils below. This replenishes the groundwater and reduces the flows downstream that contribute to nearby lakes, streams, rivers and Puget Sound.

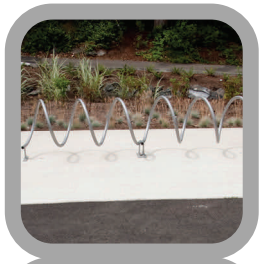
Bioretention Rain Gardens

Filter rainwater through amended soil, which removes pollutants. Rain gardens also help replenish groundwater, control the flow of stormwater, reduce flooding and provide habitat for beneficial birds and insects.

Sustainable Landscaping

Minimizes the need for irrigation and maintenance by planting a dense canopy and native, drought-resistant plants. These features also help filter rainwater, increase property values, save energy and improve air quality. As the trees and plants grow, so will the benefits.

Complete Streets and Power Conservation



Bicycle Amenities

Encourage bicycle use by providing safe, comfortable and convenient access for bicycles. Features include wider roads, shared lane markings and bicycle racks.

Pedestrian Amenities

Enhance the pedestrian environment and safety for those traveling on foot or by bus. Features include wide sidewalks, lighting and more than 350 trees added to the sites tree canopy.

LED Lights

Improve visibility at night along Clay Huntington Way. These lights have a significantly longer lifespan, lower energy consumption, reduce maintenance costs, and have an overall smaller environmental footprint.

Charging Stations

Support the electric vehicle infrastructure of Tacoma. Better access to charging stations helps increase the viability of clean transportation technology. Charging stations are located in the Cheney Stadium North Parking Lot.

Project Partners

Design Team

Civil Engineer: KPG, Inc.

Geotechnical: Landau Associates and GeoDesigns, Inc.

Construction Budget

Phase 1: $1,400,000 **Phase 2**: $1,700,000

Project Total: $3,100,000, which is estimated to be about half of the cost of traditional improvements providing the same stormwater benefit.

Construction Team

Phase 1: Tucci and Sons, Inc. **Phase 2**: Stan Palmer Construction