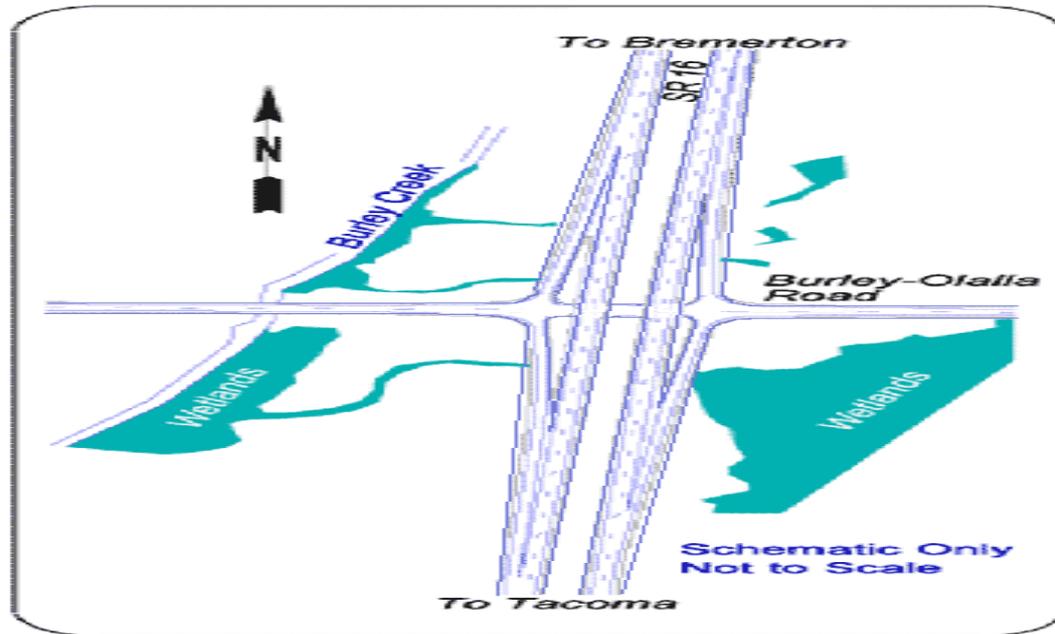


SR 16 Burley Olalla Interchange



The intersection of Burley Olalla and SR 16 is the last remaining at-grade intersection on SR 16 between Tacoma and Gorst with cross median traffic. This intersection has experienced a significant number of accidents and has been classified as a high accident location. To improve safety at this location a grade separated tight-diamond interchange is being constructed, providing complete access between SR 16 and Burley Olalla Road. Construction activities began in July 2008 and is scheduled for completion in Fall 2010.

Mitigation Types: stormwater, wetland, stream



The decision for a tight diamond, and to elevate mainline in lieu of the cross-road, avoided impacts to Burley Creek just west of SR 16. One of the unique elements of mitigation on this project was for the wetlands. During the development of the project one of the challenges the design team faced was finding a suitable site for wetland mitigation. An exhaustive search was performed with no immediate results. During our search, we found a private mitigation company that had available land within two miles of the project but not within the projects watershed. In working with the resource agencies, the team was able to gain conceptual approval to move forward with taking this approach. Through extensive coordination within WSDOT with the Attorney General's Office and the private company, an agreement was reached to utilize the off-site location for wetland mitigation at a cost of \$1.08 million. The actual wetland impact from the project is just shy of 2 acres and the mitigation site is 8 acres.

SR 16 Burley Olalla Interchange

Significant Mitigation Drivers	Agency	Mitigation Categories	Mitigation Cost	% of Project Cost	Mitigation Comments
Clean Water Act Section 402	Ecology	Stormwater Facilities	\$2,643,000	11.0%	2 stormwater ponds, bioswales, media filter drains and natural dispersion treating over 32 acres of impervious surface.
Clean Water Act Section 404 Clean Water Act Section 401	Corps Ecology	Wetlands Restoration	\$1,080,000	4.5%	8 acres of off-site mitigation bank was used to address the impacts to existing wetlands.
Clean Water Act Section 401 Clean Water Act Section 404 Hydraulic Project Approval	Ecology Corps WDFW	Stream Protection	\$868,000	3.6%	Burley Creek runs through the project. Two box culverts installed to allow fish passage.
		Totals	\$4,591,000	19.1%	



11.0%

Stormwater – \$2.64M



4.5%

Wetland – \$1.08M



3.6%

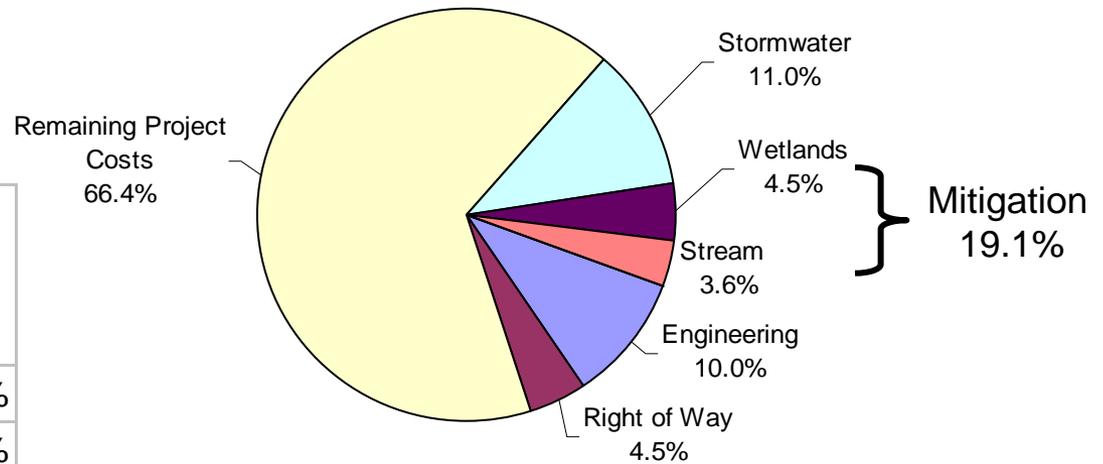
Stream – \$0.87M

SR 16 Burley Olalla Interchange

Phase Costs	
Preliminary Engineering	\$2.41M
Right of Way	\$1.08M
Construction	\$20.64M
Total	\$24.13M

Mitigation Elements	Total Mitigation Cost	% of Total Project Cost
Stormwater	\$2.64M	11.0%
Wetland	\$1.08M	4.5%
Stream	\$0.87M	3.6%
Total of Mitigation Elements	\$4.59M	19.1%
All Other Items	\$19.54M	
Total	\$24.13M	

Cost Breakdown



Lane Mile Cost Equivalence:

Adds 4 new ramps at \$23.2M per lane mile.

Total project cost is \$24.1M for 1.04 new lane miles.

Minus the cost of mitigation - \$18.8M per lane mile