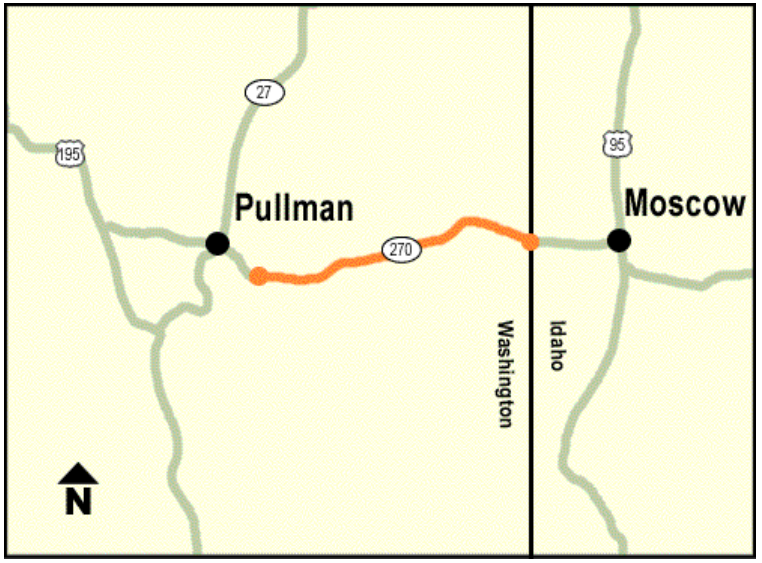
SR 270 Pullman to Idaho State Line



SR 270 is a significant regional truck route and the primary connection between two major universities. With the need for improved safety and capacity this section of SR 270 was widened from a two-lane highway to a four-lane facility with a median that provides refuge for turning traffic and separation between opposing traffic. Construction activities began in July 2006 and were completed in November 2007.

Mitigation Types: stormwater, wetland, stream

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Significant Mitigation Drivers	Agency	Mitigation Categories	Mitigation Cost	% of Project Cost	Mitigation Comments
Clean Water Act Section 402	Ecology	Stormwater Facilities	$1,301,000	4.3%	8 ponds and 19 separate bio-swales occupying 4.6 acres treated just under 15 acres of impervious surface.
Clean Water Act Section 404 Clean Water Act Section 401	Corps Ecology	Wetlands Restoration	$1,805,000	5.9%	6 acres impacted by the project which required 15 acres of mitigation based on a 1:1 replacement ratio plus buffers.
Clean Water Act Section 401 Clean Water Act Section 404 Hydraulic Project Approval	Ecology Corps WDFW	Stream Protection	$359,000	1.2%	9’ steel culvert crossing with four in-stream weirs.
		Totals	$3,465,000	11.4%	

This project took advantage of its length by providing several small ponds and bioswales, minimizing right-of-way costs and impacts to adjacent farmland. All of the wetland mitigation was done on-site with over $500,000 being spent on post construction plant establishment.

Stormwater – $1.30M

Wetland – $1.81M

Stream – $0.36M

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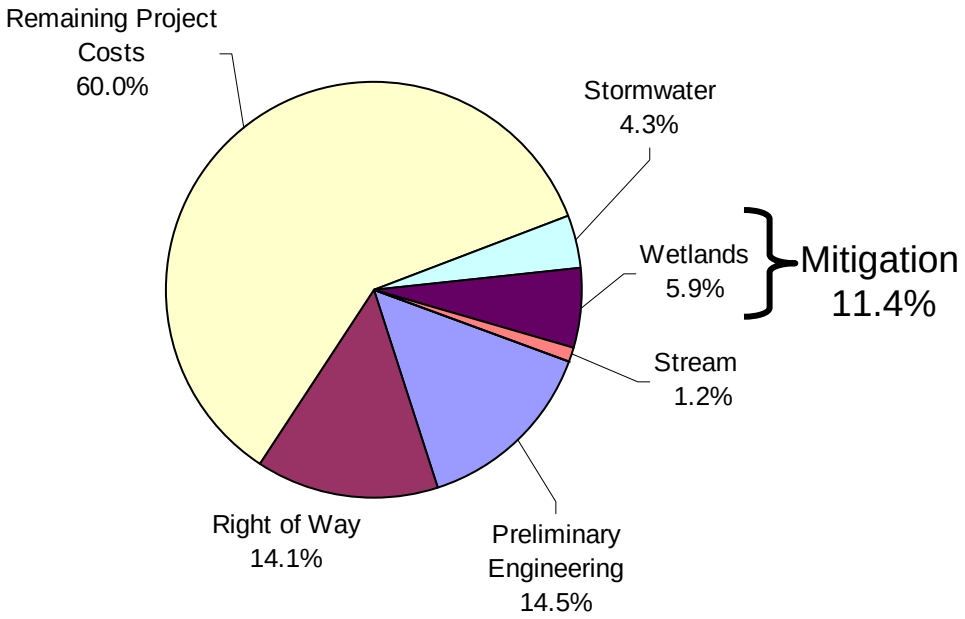
Phase Costs	
Preliminary Engineering	$4.4M
Right of Way	$4.3M
Construction	$21.7M
Total	$30.4M

Mitigation Costs		
Mitigation Elements	**Total Mitigation Cost**	**% of Total Project Cost**
Stormwater	$1.30M	4.3%
Wetland	$1.81M	5.9%
Stream	$0.36M	1.2%
Total of Mitigation Elements	$3.47M	**11.4%**
All Other Items	$26.93M	
Total	$30.4M	

Cost Breakdown



Lane Mile Cost Equivalence:

Added 2+ lanes at $1.6M per lane mile.

Total project cost is $30.4M for 18.8 new lane miles.

Minus the cost for mitigation - $1.4M per lane mile