Appendix F - Detailed Cost Estimates

COVINGTON PLATFORM AND PLATFORM TRACK ESTIMATE

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate SUMMARY OF COST ESTIMATE								
TOTAL CONSTRUCTION ITEMS					\$	6,340,851	\$	6,400,000
SALES TAX					\$	503,581	\$	600,000
TOTAL RIGHT OF WAY COSTS					\$	-	\$	-
PROGRAM MANAGEMENT AND ENGINEERING					\$	1,077,945	\$	1,100,000
TOTAL MAJOR UTILITY RELOCATION COSTS					\$	216,000	\$	300,000
TOTAL PROJECT COSTS (without Contingency)					\$	8,138,376	\$	8,400,000
TOTAL PROJECT COSTS Contingency	30%				\$ \$	2,441,513 10,579,889	\$	ROUNDED 10,600,000
	Quantity	Units		Unit Cost		Item Cost	S	Section Cost
ROADWAY/STRUCTURE ITEMS	<u> </u>	Cinto						
Preparation Grading, New Track	4000	CY	\$	26	\$	104,000		
Subtotal Preparation							\$	104,000
Railroad Track Rehabilitation and Construction								
Construct Covington Station Track								
Construct 141 lb. CWR, Conc. Tie Track Install No. 20 Turnout	1000 2	TF EA	\$ \$	340 350,000		340,000 700,000		
Subtotal Railroad Track							\$	1,040,000
Station Items								
Covington Platform, 300 ft. long Parking Lot	1 42,600	EA SY	\$ \$	1,800,000 50		1,800,000 2,130,000		
Subtotal Station Items							\$	3,930,000
Traffic Items								
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Specialty	10%	of	\$	104,000	\$	10,400		
excl. Env. Mit.) Pavement Markings at Crossings	0	LS	\$	200,000	\$	-		
Roadway/ Facility Signing Railroad Crossing Signal and ITS System	0	LS EA	\$ \$	1,000,000 400,000		-		
Subtotal Traffic Items							\$	10,400
Minor Items								
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	15%	of	\$	4,044,400	\$	606,660		
Subtotal Minor Items							\$	606,660
Mobilization								
Mobilization (% of Sections 1-7)	10%	of	\$	4,651,060	\$	465,106		
Subtotal Mobilization							\$	465,106
Other								
Differing Site Conditions % of Section 1 thru 8	0.0%	of	\$	6,156,166		<u>-</u>		
General bonds and Insurance (Section 1-9) Warranty	3.0%	of LS	\$	6,156,166	\$	184,685		
Financing		LS			\$	-		
Subtotal Differing Site Conditions							\$	184,685
Sales Tax	A ==:		•	F 000 5=1	_			
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	9.5%	of	\$	5,300,851	\$	503,581	_	
Subtotal Sales Tax							\$	503,581
Project Management / Engineering	_				_			
Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10	5% 10% 2%	of of of	\$ \$ \$	6,340,851 6,340,851 6,340,851	\$	317,043 634,085 126,817		
Subtotal Section Project Management							\$	1,077,945
Major Utility Relocates								
Utility - Public Utility - Fiber Optics Utility Engineering (8% of Major Utility Relocates)	1 - 8%	LS LS of	\$ \$	200,000	\$	200,000 - 16,000		
Subtotal Major Utility Relocations	-,0		*	- 2,200	•	,	\$	216,000
							Ψ	210,000

WSDOT DMU Study - Auburn to Maple Valley 5% Cos SUMMARY OF COST ESTIMATE	t Estimate						
TOTAL CONSTRUCTION ITEMS				\$	92,474,569	\$	92,500,000
SALES TAX				\$	5,658,804	\$	5,700,000
TOTAL RIGHT OF WAY COSTS				\$	1,725,000	\$	1,800,000
PROGRAM MANAGEMENT AND ENGINEERING				\$	15,727,477	\$	15,800,000
TOTAL MAJOR UTILITY RELOCATION COSTS				\$	2,951,000	\$	3,000,000
TOTAL PROJECT COSTS (without Contingency)				\$	118,536,850		118,800,000
TOTAL PROJECT COSTS	Contingency	30%		\$ \$	35,561,055 154,097,905		ROUNDED 154,400,000
		Quantity	Units	Unit Cost	Item Cost	S	ection Cost
ROADWAY/STRUCTURE ITEMS							
Preparation Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Preparation Railroad Track Rehabilitation and Construction Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Railroad Track						\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,250,000 104,000 654,420 208,000 104,000 2,320,420 16,582,014 - 6,368,799 1,040,000 2,147,020 1,030,000 898,000 28,065,833
Signal, Communications and PTC Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Train Control Items						\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,029,400 - - - - - - 7,029,400

Incis Inci		Quantity	Units	Unit Cost	Item Cost Se	ection Cost
Sprail, Communication and PTEC Elements	Station Items					
Adams Saling Pentern and Patern Track Estimate \$ 1,850,000						
Conging Pations and Pations Track Estimate \$ 3,000.00 Cry of Religion Valley Partiews and Pations Track Estimate \$ 4,000.00 Cry of Religion Valley Partiews and Pations Track Estimate \$ 1,000.00 Structures Teach Management of Management Pations of Management Valley Estimate \$ 1,000.00 Structures System Communication and Pation Track Estimate \$ 2,000.00 Signal, Communication and Pation Track Estimate \$ 2,000.00 Covingtion Pations and Pations Track Estimate \$ 2,000.00 Tarker Reventable Operations and Management Pations Track Estimate \$ 2,000.00 Tarker Reventable Operations and Management Pations Track Estimate \$ 3,005.00 Tarker Reventable Operations and Management Pations Track Estimate \$ 9,055.00 August Structure \$ 9,055.00 Signal, Communication and Pations Track Estimate \$ 9,055.00 Covingtion Pations and Pations Track Estimate \$ 9,055.00 Covingtion Pations and Pations Track Estimate \$ 1,000.00 Covingtion					•	
Conzigon Sting Estimate \$ 4,000 (and Male Valley Patient and Platform Track Estimate) \$ 4,500 (and Male Valley Patient and Platform Floridy Estimate) \$ 4,000 (and Male Valley Patient and Platform Floridy Estimate) \$ 1,447,000 (and Male Valley Patient	•				\$	
Chr. of Maple Valley Pattorn and Platform Track Estimate \$ 3, 33, 387, 500, 500, 500, 500, 500, 500, 500, 50					φ \$	3,930,000
Same					\$	4.300.000
Structures	Ravensdale Operations and Maintenance Facility Estimate				\$	3,387,500
Track Rehabilitation Estimate	Subtotal Station Items				\$	13,447,500
Signate Communication and PTot Estimate S 2,30,000	Structures					
Aduum Stding, Platform and Platform Track Estimate \$ 23,000,000	Track Rehabilitation Estimate				\$	-
Covingine Platform and Platform Track Estimate \$ \$ \$ \$ \$ \$ \$ \$ \$					\$	- 22 200 000
Covington Schilder Estimate \$					\$	23,300,000
Cin port Margin Valuer Platform and Platform Track Estimate \$ 2,300,000					\$	_
	City of Maple Valley Platform and Platform Track Estimate				\$	-
Track Rehabilitation Estimate	Ravensdale Operations and Maintenance Facility Estimate				\$	-
Tack Rabalitation Estimate \$ Aubum Siding, Platform and Platform Track Estimate \$ 3,655,000 Covington Siding, Estimate \$ 10,000 Covington Siding Estimate \$ 20,000 Covington Siding Estimate \$ 20,000 Ravereadid Operators and Maintenance Facility Estimate \$ 20,000 Ravereadid Operators and Maintenance Pacility Estimate \$ 10,000 Stockhord Traffic Rems \$ 10,000 Minor Items \$ 10,000 Track Rahabilitation Estimate \$ 4,505,250 Signal, Communication and PTC Estimate \$ 60,606 Covington Platform and Platform Track Estimate \$ 60,606 Covington Siding Estimate \$ 167,707 City of Majob Valley Platform and Platform Track Estimate \$ 50,505 Covington Siding Estimate \$ 60,606 Mobilization \$ 50,505 Mobilization \$ 50,505 Took Rahabiliston Estimate \$ 5,404,400 Subtoral Minor Items \$ 1,400	Subtotal Structures				\$	23,300,000
Signation Communication and PTC Estimate	Traffic Items					
Abburn Siding, Pilarform and Planform Track Estimate \$ 10,000 Covington Siding Estimate \$ 455,442 Covington Siding Estimate \$ 20,000 Roy of Maple Valley Platform and Platform Track Estimate \$ 20,000 Roy of Maple Valley Platform and Platform Track \$ 10,000 Subtotal Traffic Beams \$ 10,000 Whore Items \$ 10,000 Minor Items \$ 10,000 Track Rahabilitation Estimate \$ 10,000 Signal, Communication and PTC Estimate \$ 4,505,250 Abuburn Siding, Platform and Platform Track Estimate \$ 600,660 Covington Siding Estimate \$ 679,320 Civy of Maple Valley Platform and Platform Track Estimate \$ 679,320 Civy of Maple Valley Platform and Platform Track Estimate \$ 679,320 Covington Siding Estimate \$ 679,320 Nobilization \$ 789,320 Roy of Maple Valley Platform and Platform Track Estimate \$ 3,454,020 Subtotal Minor Items \$ 10,000 Mobilization \$ 3,454,020 Covington Siding Estimate \$ 3,454,020 Covington Siding Estimate \$ 1,300,309					\$	-
Covington Platform and Platform Track Estimate \$ 465,442 Chy of Maple Valley Platform and Platform Track Estimate \$ 20,300 Rayerwandial Operations and Maintenance Facility Estimate \$ 10,000 Subtoral Traffic Items **** Minor Items **** Minor Items **** Importance Commissions and Platform Track Estimate \$ 4505,256 Targonal, Commissions and Platform Track Estimate \$ 4505,256 Covingtion Platform and Platform Track Estimate \$ 606,856 Covingtion Platform and Platform Track Estimate \$ 167,926 Covingtion Platform and Platform Track Estimate \$ 167,926 Covingtion Platform and Platform Track Estimate \$ 6,844,949 Mobilization \$ 525,288 Track Rehabilitation Estimate \$ 5,844,949 Mobilization \$ 5,844,949 Mobilization \$ 5,844,949 Mobilization \$ 5,844,949 Mobilization \$ 3,844,949					\$	2 655 000
Conington Siding Estimate \$ 466,442 Kay of Magber Valley Platform and Platform Track Estimate \$ 20,000 Ravensdalo Operations and Maintenance Facility Estimate \$ 10,400 Minor Items Track Rehabilitation Estimate \$ 10,500 Signal, Communication and PTC Estimate \$ 9,500 Aubum Siding, Platform and Platform Track Estimate \$ 0,800 Covington Platform and Platform Track Estimate \$ 0,800 Covington Siding Estimate \$ 0,800 Siding Estimate \$ 10,900 Covington Siding Estimate \$ 10,900 Revendance Operations and Maintenance Facility Estimate \$ 10,900 Mobilization \$ 1,800 Tark Estimate \$ 1,800 Signal, Communication and PTC Estimate \$ 3,450 Covington Siding Estimate \$ 4,800 Covington Bidding Platform and Platform Track Estimate \$ 2,800 Covington Platform and Platform Track Estimate \$ 2,800 <td></td> <td></td> <td></td> <td></td> <td>\$</td> <td></td>					\$	
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Ravendale Operations and Maintenance Facility Estimate					\$	20,800
Minor Items Track Rehabilitation Estimate \$ Track Rehabilitation Estimate \$ Signal, Communication and Platform Track Estimate \$ Covingtion Platform and Platform Track Estimate \$ Covingtion Siding Estimate \$ 167.79 It of you Maple Valley Platform and Platform Track Estimate \$ 757.93 Revendado Operations and Maintenance Facility Estimate \$ 752.28 Subtotal Minor Items \$ 5.25.28 Mobilization ** \$ 5.25.28 Track Rehabilitation Estimate \$ 4.65.402 Signal, Communication and PTC Estimate \$ 4.65.402 Covingtion Platform and Platform Track Estimate \$ 4.65.702 Covingtion Siding Estimate \$ 4.65.102 Covingtion Platform and Platform Track Estimate \$ 4.02.715 Covingtion Siding Estimate \$ 4.02.716 Subtotal Mobilization \$ 4.02.716 Other ** 4.02.716 Track Rehabilitation Estimate \$ 4.02.716 Supparation and	Ravensdale Operations and Maintenance Facility Estimate				\$	10,400
Track Rehabilitation Estimates \$ Signal, Communication and PTC Estimate \$ Aubum Sking, Platform and Platform Track Estimate \$ Covington Platform and Platform Track Estimate \$ Covington Sking Estimate \$ Kiy Of Maple Valley Platform and Platform Track Estimate \$ Ravensdale Operations and Maintenance Facility Estimate \$ Subtotal Minor Hems \$ Mobilization * Track Rehabilitation Estimate \$ Signal, Communication and PTC Estimate \$ Aubum Sking, Platform and Platform Track Estimate \$ Covington Sking Platform and Platform Track Estimate \$ Covington Sking Platform and Platform Track Estimate \$ <td>Subtotal Traffic Items</td> <td></td> <td></td> <td></td> <td>\$</td> <td>4,162,042</td>	Subtotal Traffic Items				\$	4,162,042
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Abbum Siding, Platform and Platform Track Estimate \$ 4,505,25C Covington Platform and Platform Track Estimate \$ 167,93C Kiy of Maple Valley Platform and Platform Track Estimate \$ 679,32C Ravensdale Operations and Maintenance Facility Estimate \$ 525,28E Subbotal Minor Items \$ 6,484,494 Mobilization Track Rehabilitation Estimate \$ 9 Signal, Communication and PTC Estimate \$ 3,454,02C Aubum Siding, Platform and Platform Track Estimate \$ 3,454,02C Covington Platform and Platform Track Estimate \$ 128,796 Covington Platform and Platform Track Estimate \$ 252,035 Covington Siding, Platform and Platform Track Estimate \$ 252,035 Covington Siding Lestimate \$ 128,796 Covington Siding Lestimate \$ 202,035 Covington Siding Lestimate \$ 202,035 Ravensdale Operations and Maintenance Facility Estimate \$ 402,71 Subbotal Mobilization \$ 202,036 Covington Siding, Platform and Platform Track Estimate \$ 202,036 Covington Siding, Platform and Platform Track Estimate \$ 20,036 Covington Siding Estimate \$ 1,300,032 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td></t<>						-
Covington Platform and Platform Track Estimate \$ 606.68C Covington Siding Estimate \$ 167.93C City of Maple Valley Platform and Platform Track Estimate \$ 267.32C Ravensdale Operations and Maintenance Facility Estimate \$ 5.625.28E Statistical Minor Items * 5.6384.498 Mobilitation * 5.638.28E Track Rehabilitation Estimate \$ 5.53.28E Signal, Communication and PTC Estimate \$ 3.454.02E Covingtion Platform and Platform Track Estimate \$ 3.454.02E Covingtion Siding, Platform and Platform Track Estimate \$ 128.784 Covingtion Siding Estimate \$ 128.784 Lity of Maple Valley Platform and Platform Track Estimate \$ 3.497.48E Covingtion Siding Estimate \$ 402.71E Subtroat Mobilization \$ 497.46E Other * 5 Track Rehabilitation Estimate \$ 13.30.892 Covingtion Platform and Platform Track Estimate \$ 14.974.48E Covingtion Siding, Platform and Platform Track Estimate \$ 1.94.94E Covingtion Siding, Platform and Platform Track Estimate \$ 1.94.94E Covingtion Siding Estimate \$ 1.94.94E					*	4 505 050
Covington Siding Estimate \$ 167,975 Kip of Maple Valley Platform and Platform Track Estimate \$ 679,325 Ravensdale Operations and Maintenance Facility Estimate \$ 6,484,494 Mobilization ************************************					\$ ¢	
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Ravensdale Operations and Maintenance Facility Estimate \$ 525, 268 Subtotal Minor Items \$ 6,484,494 Mobilization Track Rehabilitation Estimate \$ 5 Signal, Communication and PTC Estimate \$ 3,454,028 Aubum Siding, Platform and Platform Track Estimate \$ 465,100 Covington Platform and Platform Track Estimate \$ 128,784 City of Maple Valley Platform and Platform Track Estimate \$ 520,812 City of Maple Valley Platform and Platform Track Estimate \$ 520,812 Ravensdale Operations and Maintenance Facility Estimate \$ 549,714 Other * 5 Track Rehabilitation Estimate \$ 133,083 Signal, Communication and PTC Estimate \$ 121,088 Suburb Siding, Platform and Platform Track Estimate \$ 133,083 Covington Platform and Platform Track Estimate \$ 120,083 Covington Platform and Platform Track Estimate \$ 120,083 City of Maple Valley Platform and Platform Track Estimate \$ 202,768 Ravensdale Operations and Maintenance Facility Estimate \$ 202,768 Signal, Communication and PTC Estimate \$ 203,348 Covington Siding Estimate \$ 3,735,891 <t< td=""><td></td><td></td><td></td><td></td><td>\$</td><td></td></t<>					\$	
Subtotal Minor Items \$ 6,484,494 Mobilization ************************************	Ravensdale Operations and Maintenance Facility Estimate				\$	525,285
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Signal, Communication and PTC Estimate \$	Mobilization					
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Covington Platform and Platform Track Estimate \$ 465,106 Covington Siding Estimate \$ 520,812 Covington Siding Estimate \$ 520,812 Ravensdale Operations and Maintenance Facility Estimate \$ 402,714 Subtotal Mobilization \$ 4,971,446 Other **** Track Rehabilitation Estimate \$ 497,465 Signal, Communication and PTC Estimate \$ 1330,892 Auburn Siding, Platform and Platform Track Estimate \$ 18,660 Covington Flatform and Platform Track Estimate \$ 16,600 Covington Flatform and Platform Track Estimate \$ 16,600 Covington Siding Estimate \$ 16,600 Covington Siding Estimate \$ 202,768 Ravensdale Operations and Maintenance Facility Estimate \$ 203,768 Ravensdale Operations and Maintenance Facility Estimate \$ 203,834 Signal, Communication and PTC Estimate \$ 2,903,434 Signal, Communication and PTC Estimate \$ 2,903,434 Covington Flatform and Platform Track Estimate \$ 3,735,891 Covington Flatform and Platform Track Estimate \$ 3,735,891 Covington Platform and Platform Track Estimate \$ 3,802 Covington Platform					\$	- 454.005
Covington Siding Estimate \$ 128,784 City of Maple Valley Platform and Platform Track Estimate \$ 520,812 Ravenscale Operations and Maintenance Facility Estimate \$ 402,718 Subtotal Mobilization \$ 4,971,446 Other Track Rehabilitation Estimate Signal, Communication and PTC Estimate \$ 210,882 Auburn Siding, Platform and Platform Track Estimate \$ 134,686 Covington Platform and Platform Track Estimate \$ 16,900 City of Maple Valley Platform and Platform Track Estimate \$ 10,900 City of Maple Valley Platform and Platform Track Estimate \$ 12,803 Sales Tax Track Rehabilitation Estimate \$ 17,255 Signal, Communication and PTC Estimate \$ 2,693,434 Sales Tax Track Rehabilitation Estimate \$ 2,693,434 Sales Tax Subtotal Differing Site Conditions \$ 17,255 Signal, Communication and PTC Estimate \$ 3,735,891 Covington Platform and Platform Track Estimate \$ 3,735,891 Covington Platform and Platform Track Estimate \$ 349,702 Covington Platform and Platform Track Estimate \$ 349,802 <td< td=""><td></td><td></td><td></td><td></td><td>\$</td><td></td></td<>					\$	
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Ravensdale Operations and Maintenance Facility Estimate \$ 4,02,715 Subtotal Mobilization \$ 4,971,446 Other Track Rehabilitation Estimate \$ 497,466 Signal, Communication and PTC Estimate \$ 210,882 Signal, Communication and PTC Estimate \$ 1,330,892 Covington Platform and Platform Track Estimate \$ 18,685 Covington Siding Estimate \$ 106,905 City of Maple Valley Platform and Platform Track Estimate \$ 202,766 Ravensdale Operations and Maintenance Facility Estimate \$ 2,893,434 Sales Tax Track Rehabilitation Estimate \$ 47,255 Signal, Communication and PTC Estimate \$ 2,0034 Auburn Siding, Platform and Platform Track Estimate \$ 3,735,891 Covington Platform and Platform Track Estimate \$ 3,735,891 Covington Siding Estimate \$ 3,735,891 Covington Platform and Platform Track Estimate \$ 3,835 Covington Siding Estimate \$ 3,835 Covington Siding Estimate \$ 5,658,804 Project Management / Engineering \$ 2,903,511 Track Rehabilitation Estimate \$ 2,903,511 Signal, Com					\$	520,812
Other Track Rehabilitation Estimate \$ 497,460 Signal, Communication and PTC Estimate \$ 1,330,892 Auburn Siding, Platform and Platform Track Estimate \$ 1,330,892 Covington Platform and Platform Track Estimate \$ 184,685 Covington Siding Estimate \$ 106,905 City of Maple Valley Platform and Platform Track Estimate \$ 202,768 Ravensdale Operations and Maintenance Facility Estimate \$ 159,837 Subtotal Differing Site Conditions \$ 1,593,434 Sales Tax * 47,255 Track Rehabilitation Estimate \$ 47,255 Signal, Communication and PTC Estimate \$ 20,034 Auburn Siding, Platform and Platform Track Estimate \$ 3,735,891 Covington Platform and Platform Track Estimate \$ 3,735,891 Covington Siding Estimate \$ 349,703 City of Maple Valley Platform and Platform Track Estimate \$ 349,703 Ravensdale Operations and Maintenance Facility Estimate \$ 439,825 Subtotal Sales Tax \$ 5,658,804 Project Management / Engineering \$ 2,903,511 Track Rehabilitation Estimate \$ 2,903,511 Signal, Communic	Ravensdale Operations and Maintenance Facility Estimate				\$	402,719
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Covington Platform and Platform Track Estimate \$ 184,685 Covington Siding Estimate \$ 106,905 City of Maple Valley Platform and Platform Track Estimate \$ 202,765 Ravensdale Operations and Maintenance Facility Estimate \$ 159,837 Subtotal Differing Site Conditions \$ 2,693,434 Sales Tax Track Rehabilitation Estimate \$ 47,255 Signal, Communication and PTC Estimate \$ 20,034 Auburn Siding, Platform and Platform Track Estimate \$ 3,735,891 Covington Platform and Platform Track Estimate \$ 348,703 City of Maple Valley Platform and Platform Track Estimate \$ 348,703 City of Maple Valley Platform and Platform Track Estimate \$ 349,703 Ravensdale Operations and Maintenance Facility Estimate \$ 439,825 Subtotal Sales Tax \$ 5,655,804 Project Management / Engineering Track Rehabilitation Estimate \$ 2,903,511 Signal, Communication and PTC Estimate \$ 2,903,511 Auburn Siding, Platform and Platform Track Estimate \$ 7,767,974 Covington Platform and Platform Track Estimate \$ 1,133,488 Covington Siding Estimate \$ 2,939,7					\$	
Covington Siding Estimate\$ 106,908City of Maple Valley Platform and Platform Track Estimate\$ 202,768Ravensdale Operations and Maintenance Facility Estimate\$ 159,837Subtotal Differing Site Conditions\$ 2,693,434Sales TaxTrack Rehabilitation Estimate\$ 47,258Signal, Communication and PTC Estimate\$ 20,034Auburn Siding, Platform and Platform Track Estimate\$ 3,735,891Covington Platform and Platform Track Estimate\$ 348,703City of Maple Valley Platform and Platform Track Estimate\$ 348,703City of Maple Valley Platform and Platform Track Estimate\$ 563,581Ravensdale Operations and Maintenance Facility Estimate\$ 439,825Subtotal Sales Tax\$ 5,658,804Project Management / EngineeringTrack Rehabilitation Estimate\$ 2,903,511Signal, Communication and PTC Estimate\$ 2,903,511Auburn Siding, Platform and Platform Track Estimate\$ 7,767,974Covington Platform and Platform Track Estimate\$ 7,767,974Covington Siding Estimate\$ 623,994Covington Siding Estimate\$ 623,994Covington Siding Estimate\$ 623,994Covington Platform and Platform Track Estimate\$ 623,994Covington Siding Estimate\$ 623,994Covington Platform and Maintenance Facility Estimate\$ 1,183,488Ravensdale Operations and Maintenance Facility Estimate\$ 9,97,66					\$	
City of Maple Valley Platform and Platform Track Estimate \$ 202,768 Ravensdale Operations and Maintenance Facility Estimate \$ 159,837 Subtotal Differing Site Conditions \$ 2,693,434 Sales Tax **** Track Rehabilitation Estimate \$ 47,258 Signal, Communication and PTC Estimate \$ 20,034 Auburn Siding, Platform and Platform Track Estimate \$ 3,735,891 Covington Platform and Platform Track Estimate \$ 503,581 Covington Siding Estimate \$ 348,703 City of Maple Valley Platform and Platform Track Estimate \$ 439,825 Ravensdale Operations and Maintenance Facility Estimate \$ 439,825 Subtotal Sales Tax \$ 5,658,804 Project Management / Engineering \$ 2,903,511 Track Rehabilitation Estimate \$ 2,903,511 Signal, Communication and PTC Estimate \$ 2,903,511 Covington Platform and Platform Track Estimate \$ 7,767,974 Covington Platform and Platform Track Estimate \$ 623,994 City of Maple Valley Platform and Platform Track Estimate \$ 623,994 City of Maple Valley Platform and Maintenance Facility Estimate \$ 1,183,488 Ravensdale Operations and Maintenance Facility Es					\$	•
Subtotal Differing Site Conditions \$ 2,693,434 Sales Tax Track Rehabilitation Estimate Signal, Communication and PTC Estimate \$ 20,034 Auburn Siding, Platform and Platform Track Estimate \$ 3,735,891 Covington Platform and Platform Track Estimate \$ 503,581 Covington Siding Estimate \$ 348,703 City of Maple Valley Platform and Platform Track Estimate \$ 563,511 Ravensdale Operations and Maintenance Facility Estimate \$ 439,825 Subtotal Sales Tax \$ 5,658,804 Project Management / Engineering \$ 2,903,511 Track Rehabilitation Estimate \$ 2,903,511 Signal, Communication and PTC Estimate \$ 1,230,844 Auburn Siding, Platform and Platform Track Estimate \$ 7,767,974 Covington Platform and Platform Track Estimate \$ 1,077,944 Covington Siding Estimate \$ 623,994 City of Maple Valley Platform and Platform Track Estimate \$ 623,994 Ravensdale Operations and Maintenance Facility Estimate \$ 939,716	City of Maple Valley Platform and Platform Track Estimate				\$	202,768
Sales Tax Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Signal, Covington Platform and Platform Track Estimate Sovington Platform and Platform Track Estimate Sovington Siding Platform and Platform Track Estimate Sovington Siding Platform and Platform Track Estimate Sovington Siding Estimate Sovington Sidin	Ravensdale Operations and Maintenance Facility Estimate				\$	159,837
Track Rehabilitation Estimate \$ 47,255 Signal, Communication and PTC Estimate \$ 20,034 Auburn Siding, Platform and Platform Track Estimate \$ 3,735,891 Covington Platform and Platform Track Estimate \$ 503,581 Covington Siding Estimate \$ 348,703 City of Maple Valley Platform and Platform Track Estimate \$ 63,511 Ravensdale Operations and Maintenance Facility Estimate \$ 439,825 Subtotal Sales Tax \$ 5,658,804 Project Management / Engineering Track Rehabilitation Estimate \$ 2,903,511 Signal, Communication and PTC Estimate \$ 2,903,511 Signal, Platform and Platform Track Estimate \$ 7,767,974 Covington Platform and Platform Track Estimate \$ 1,077,974 Covington Siding Estimate \$ 1,077,974 City of Maple Valley Platform and Platform Track Estimate \$ 623,994 City of Maple Valley Platform and Maintenance Facility Estimate \$ 1,183,486 Ravensdale Operations and Maintenance Facility Estimate \$ 939,716	Subtotal Differing Site Conditions				\$	2,693,434
Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Signal, Covington Platform and Platform Track Estimate Signal, Covington Platform and Platform Track Estimate Signal, Covington Siding Estimate Subtotal Sales Tax Signal, Communication and Maintenance Facility Estimate Signal, Communication and PTC Estimate Signal, Covington Siding Signal Platform Track Estimate Signal, Covington Platform and Platform Track Estimate Signal, Signal, Signal Platform and Platform Track Estimate Signal Platform and Platform Track Estimate Signal Platform and Platform Track Estimate Signal Platform Signal Platf	Sales Tax					
Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate \$ 3,735,891 Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate \$ 348,703 City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 439,825 Subtotal Sales Tax Project Management / Engineering Track Rehabilitation Estimate \$ 2,903,511 Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate \$ 1,077,945 Covington Siding Estimate \$ 1,077,945 Covington Siding Estimate \$ 1,077,945 Covington Valley Platform and Platform Track Estimate \$ 1,077,945 Covington Siding Estimate \$ 2,993,916 Cov	Track Rehabilitation Estimate					47,259
Covington Platform and Platform Track Estimate Covington Siding Estimate Sidnay Platform and Platform Track Estimate Sidnay Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Sales Tax Project Management / Engineering Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate Signal, Communication and Platform Track Est					\$	20,034
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Sales Tax Subtotal Sales Tax Special Substates Project Management / Engineering Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 348,703 \$ 563,511 Ravensdale Stimate \$ 2,903,511 \$ 2,903,511 \$ 1,230,848 \$ 1,230,848 \$ 1,077,945 \$ 2,003,511 \$ 1,077,945 \$ 2,003,511 \$ 1,077,945 \$ 2,003,511 \$ 1,077,945 \$ 2,003,511 \$ 1,077,945 \$ 2,003,511 \$ 1,183,488 \$ 2,903,511 \$ 2,9					\$	
City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Sales Tax Signal Communication Estimate Signal Communication and PTC Estimate Signal Communication and PTC Estimate Subtotal Sales Tax Signal Communication and PTC Estimate Subtotal Sales Tax Signal Communication Estimate Subtotal Sales Tax Signal Communication Estimate Subtotal Sales Tax Signal Communication Estimate Subtotal Sales Tax Subtota					Ф \$	
Ravensdale Operations and Maintenance Facility Estimate Subtotal Sales Tax Project Management / Engineering Track Rehabilitation Estimate Signal, Communication and PTC Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 439,825 \$ 5,658,804 \$ 2,903,511 \$ 1,230,848 \$ 1,230,848 \$ 1,767,974 Covington Platform and Platform Track Estimate \$ 1,077,945 Covington Siding Estimate \$ 93,9716 Signal Communication and Platform Track Estimate \$ 1,183,488 Ravensdale Operations and Maintenance Facility Estimate					\$ \$	
Subtotal Sales Tax Project Management / Engineering Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 1,183,488 939,716	Ravensdale Operations and Maintenance Facility Estimate				\$	439,825
Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 2,903,511 \$ 2,903,511 \$ 1,230,848 \$ 7,767,974 \$ 1,077,945 \$ 623,994 \$ 1,183,489 \$ 939,716	Subtotal Sales Tax				\$	5,658,804
Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 1,230,848 \$ 7,767,974 \$ 1,077,945 \$ 623,994 \$ 1,183,489 \$ 939,716	Project Management / Engineering					
Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 7,767,974 \$ 1,077,945 \$ 623,994 \$ 1,183,489 \$ 939,716	Track Rehabilitation Estimate					2,903,511
Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 1,077,945 \$ 623,994 \$ 1,183,489 \$ 939,716					\$	1,230,848
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 623,994 1,183,489 \$ 939,716					\$	
City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 1,183,489 \$ 939,716					\$	
Ravensdale Operations and Maintenance Facility Estimate \$ 939,716					φ \$	
	Ravensdale Operations and Maintenance Facility Estimate				\$	939,716
<u> </u>	Subtotal Section Project Management				<u> </u>	15,727,477

	Quantity	Units	Unit Cost	Item Cost	Section Cost
Right of Way					
Track Rehabilitation Estimate					\$ -
Signal, Communication and PTC Estimate					\$ -
Auburn Siding, Platform and Platform Track Estimate					\$ 1,525,000
Covington Platform and Platform Track Estimate					\$ -
Covington Siding Estimate					\$ -
City of Maple Valley Platform and Platform Track Estimate					\$ -
Ravensdale Operations and Maintenance Facility Estimate					\$ 200,000
Subtotal Right of Way					\$ 1,725,000
Major Utility Relocates					
Track Rehabilitation Estimate					\$ -
Signal, Communication and PTC Estimate					\$ -
Auburn Siding, Platform and Platform Track Estimate					\$ 1,540,000
Covington Platform and Platform Track Estimate					\$ 216,000
Covington Siding Estimate					\$ 800,000
City of Maple Valley Platform and Platform Track Estimate					\$ 125,000
Ravensdale Operations and Maintenance Facility Estimate					\$ 270,000
Subtotal Major Utility Relocations					\$ 2,951,000

2,903,511

TRACK REHABILITATION ESTIMATE

WSDOT DMU Study - Auburn to Maple Valley 5% Cost E SUMMARY OF COST ESTIMATE	stimate								
TOTAL CONSTRUCTION ITEMS						\$	17,079,475	\$	17,100,000
SALES TAX						\$	47,259	\$	100,000
TOTAL RIGHT OF WAY COSTS						\$	-	\$	-
PROGRAM MANAGEMENT AND ENGINEERING						\$	2,903,511	\$	3,000,000
TOTAL MAJOR UTILITY RELOCATION COSTS						\$	-	\$	-
TOTAL PROJECT COSTS (without Contingency)						\$	20,030,244	\$	20,200,000
TOTAL PROJECT COSTS	Contingency	30%				\$ \$	6,009,073 26,039,317	\$	ROUNDED 26,100,000
		Quantity	Units	3	Unit Cost		Item Cost	S	ection Cost
ROADWAY/STRUCTURE ITEMS									
Railroad Track Rehabilitation and Construction Rehabilitate Existing Mainline, Auburn to Ravensdale Relay Rail Install Ties, 30% Track Surace and Lining including ballast Subtotal Railroad Track		60086 14058 74976	TF EA TF	\$ \$ \$	224 90 25	\$ \$ \$	13,459,264 1,259,597 1,863,154	\$	16,582,014
Minor Items									
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)		15%		of		\$	-		
Subtotal Minor Items								\$	_
Mobilization									
Mobilization (% of Sections 1-7)		10%		of \$	-	\$	-		
Subtotal Mobilization								\$	-
Other									
Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing		0.0% 3.0%	of of LS LS	\$ \$	16,582,014 16,582,014	\$ \$ \$	497,460 - -		
Subtotal Differing Site Conditions								\$	497,460
Sales Tax									
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)		9.5%	of	\$	497,460	\$	47,259		
Subtotal Sales Tax								\$	47,259
Project Management / Engineering									
Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10		5% 10% 2%	of of of	\$ \$ \$	17,079,475 17,079,475 17,079,475	\$	853,974 1,707,947 341,589		

Subtotal Section Project Management

- 1. This estimate is based upon replacing only existing jointed rail with BNSF Std. 141#
- 2. BNSF construction costs are the basis for the track construction items
- 3. Tie replacement estimates are based upon short spot checks. No physical count of defective ties was made
- 4. All track that is planned for relay or tie replacement is planned for track surface and lining.

SIGNAL, COMMUNICATIONS and PTC ESTIMATE

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate
SUMMARY OF COST ESTIMATE

TOTAL CONSTRUCTION ITEMS			\$	7,240,282	\$	7,300,000
SALES TAX			\$	20,034	\$	100,000
TOTAL RIGHT OF WAY COSTS			\$	-	\$	-
PROGRAM MANAGEMENT AND ENGINEERING			\$	1,230,848	\$	1,300,000
TOTAL MAJOR UTILITY RELOCATION COSTS			\$	-	\$	-
TOTAL PROJECT COSTS (without Contingency)			\$	8,491,164	_	8,700,000
TOTAL PROJECT COSTS	Contingency	30%	\$ \$	2,547,349 11,038,513		11,100,000

TOTAL PROJECT COSTS				\$	11,038,513	Þ	11,100,000
	Quantity	Units	Unit Cost		Item Cost	S	ection Cost
Signal, Communications and PTC							
Signal, CTC and PTC overlay, Auburn to West Kanaskat	1	LS	\$ 7,029,400	\$	7,029,400		
Subtotal Train Control Items						\$	7,029,400
Minor Items							
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	15%	of	\$ -	\$	-		
Subtotal Minor Items						\$	
Mobilization							
Mobilization (% of Sections 1-7)	10%	of	\$ -	\$	-		
Subtotal Mobilization						\$	-
Other							
Differing Site Conditions % of Section 1 thru 8	0.0%	of	\$ 7,029,400	\$	-		
General bonds and Insurance (Section 1-9)	3.0%	of	\$ 7,029,400	\$	210,882		
Warranty		LS LS		\$ \$	-		
Financing		LS		Φ	-		
Subtotal Differing Site Conditions						\$	210,882
Sales Tax							
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	9.5%	of	\$ 210,882	\$	20,034		
Subtotal Sales Tax						\$	20,034
Project Management / Engineering							
Preliminary Engineering	5%	of	\$ 7,240,282		362,014		
Constr Engr and Insp % of Sections 1 thru 10	10%	of	\$ 7,240,282		724,028		
Program Management % of Sections 1 thru 10	2%	of	\$ 7,240,282	\$	144,806		
Subtotal Section Project Management						\$	1,230,848

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate

SUMMARY OF COST ESTIMATE								
TOTAL CONSTRUCTION ITEMS					\$	45,693,966	\$	45,700,000
SALES TAX (less BNSF Force Account Work)					\$	3,735,891	\$	3,800,000
TOTAL RIGHT OF WAY COSTS					\$	1,525,000	\$	1,600,000
PROGRAM MANAGEMENT AND ENGINEERING					\$	7,767,974	\$	7,800,000
TOTAL MAJOR UTILITY RELOCATION COSTS					\$	1,540,000	\$	1,600,000
TOTAL PROJECT COSTS (without Contingency)	30%				\$	60,262,831 18,078,849		60,500,000 ROUNDED
TOTAL PROJECT COSTS Contingency	30 %				\$ \$	78,341,680		78,400,000
	Quantity	Units		Unit Cost		Item Cost	S	Section Cost
ROADWAY/STRUCTURE ITEMS								
Preparation								
Demolition of Existing Grade Separation - Bridge Demolition of Existing Grade Separation - Walls	2 2	EA EA	\$ \$	100,000 50,000		200,000 100,000		
Building Demolition - Residential Grading, New Track Siding	2 16000	EA CY	\$ \$	20,000		40,000 416,000		
Grading, New Track Station	19000	CY	\$	26	\$	494,000		
Subtotal Preparation							\$	1,250,000
Railroad Track Rehabilitation and Construction Extended Auburn Siding								
Remove Existing Siding	2600	TF	\$	15	\$	38,839		
Remove Existing Turnouts Grading/Compaction Existing Track	1 5000	EA CY	\$ \$	10,360 16	\$ \$	10,360 79,400		
Construct 141 lb. CWR, Conc. Tie Track Install No. 20 Turnout	10880 1	TF EA	\$ \$	340 350,000	\$ \$	3,699,200 350,000		
Construct RR Bridge, MP 101.18	150	TF	\$	9,100		1,365,000		
Construct Auburn Station Track Construct 141 lb. CWR, Conc. Tie Track Install No. 20 Turnout	1400	TF EA	\$ \$	340 350,000		476,000 350,000		
Subtotal Railroad Track							\$	6,368,799
Station Items								
Auburn Platform, 300 ft. long Parking Lot	1 600	EA SY	\$ \$	1,800,000 50		1,800,000 30,000		
Subtotal Station Items							\$	1,830,000
Structures								
Widen RR Bridge - A Street	1	LS	\$	1,500,000	\$	1,500,000		
Replace RR Bridge and Construct New Bridge - Auburn Way S Replace RR Bridge and Construct New Bridge - F Street	1	LS LS	\$ \$	3,000,000 1,800,000		3,000,000 1,800,000		
Roadway Crossing - M Street Grade Separate SE Auburn/BlackDiamond Rd	1	LS LS	\$ \$	1,000,000	\$	1,000,000		
Subtotal Structures	ı	LS	Φ	16,000,000	Φ	10,000,000	\$	23,300,000
Traffic Items								
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Specialty								
excl. Env. Mit.) Pavement Markings at Crossings	10%		of \$	24,550,000 200,000		2,455,000		
Roadway/ Facility Signing	1	LS LS	\$ \$	1,000,000		1,000,000		
Subtotal Traffic Items							\$	3,655,000
Minor Items								
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	15%	of	\$	30,035,000	\$	4,505,250		
Subtotal Minor Items							\$	4,505,250
Mobilization								
Mobilization (% of Sections 1-7)	10%	of	\$	34,540,250	\$	3,454,025		
Subtotal Mobilization							\$	3,454,025

	Quantity	Units		Unit Cost		Item Cost	S	ection Cost
Other								
Differing Site Conditions % of Section 1 thru 8	0.0%	of	\$	44,363,074	\$	_		
General bonds and Insurance (Section 1-9)	3.0%	of	\$	44,363,074		1,330,892		
Warranty		LS	•	, = = -, =	\$	-		
Financing		LS			\$	-		
Subtotal Differing Site Conditions							\$	1,330,892
Sales Tax								
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	9.5%	of	\$	39,325,167	¢	3,735,891		
Sales Tax (76 of Sections 1 thru Tolless BNSF Tollee Account Work)	9.576	Oi	Ψ	39,323,107	Ψ	3,733,091		
Subtotal Sales Tax							\$	3,735,891
Project Management / Engineering								
Preliminary Engineering	5%	of	\$	45,693,966	\$	2,284,698		
Constr Engr and Insp % of Sections 1 thru 10	10%	of	\$	45,693,966		4,569,397		
Program Management % of Sections 1 thru 10	2%	of	\$	45,693,966		913,879		
Subtotal Section Project Management							\$	7,767,974
Right of Way								
Acquisition of Residential (Based on 2010 Taxable Value)	1	LS	\$	300,000	\$	300,000		
Acquisition of Commercial (Based on 2010 Taxable Value)	1	LS	\$	1,225,000	\$	1,225,000		
ROW for Retention/Detention Facilities	-	SF	\$	-	\$	-		
Permanent Easements	-	SF	\$	-	\$	-		
Temporary Construction Easement	-	SF	\$	-	\$	-		
Change in Access	-	LS	\$	-	\$	-		
Labor for Right of Way Services	-	LS	\$	-	\$	-		
Subtotal Right of Way							\$	1,525,000
Major Utility Relocates								
Utility - Public	1	LS	\$	500,000	\$	500,000		
Utility - Fiber Optics	1	LS	\$	1,000,000		1,000,000		
Utility Engineering (8% of Major Utility Relocates)	8%	of	\$	500,000		40,000		
Subtotal Major Utility Relocations							\$	1,540,000

COVINGTON SIDING ESTIMATE

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate SUMMARY OF COST ESTIMATE								
TOTAL CONSTRUCTION ITEMS					\$	3,670,555	\$	3,700,000
SALES TAX					\$	348,703	\$	400,000
TOTAL RIGHT OF WAY COSTS					\$	-	\$	-
PROGRAM MANAGEMENT AND ENGINEERING					\$	623,994	\$	700,000
TOTAL MAJOR UTILITY RELOCATION COSTS					\$	800,000	\$	800,000
TOTAL PROJECT COSTS (without Contingency)					\$	5,443,252	\$	5,600,000
TOTAL PROJECT COSTS Contingency	30%				\$ \$	1,632,976 7,076,228	\$	7,100,000
	Quantity	Units		Unit Cost		Item Cost	S	ection Cost
ROADWAY/STRUCTURE ITEMS								
Preparation								
Grading, New Track	25170	CY	\$	26	\$	654,420		
Subtotal Preparation							\$	654,420
Railroad Track Rehabilitation and Construction								
Extend Covington Freight Siding to min 8,000 ft. clear								
Remove Existing Turnouts Construct 141 lb. CWR, Conc. Tie Track	2 4195	EA TF	\$ \$	10,360 340	\$ \$	20,720 1,426,300		
Install No. 20 Turnout	2	EA	\$	350,000	\$	700,000		
Subtotal Railroad Track							\$	2,147,020
Traffic Items								
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Specialty excl. Env. Mit.)	10%	of	\$	654,420	\$	65,442		
Pavement Markings at Crossings		LS	\$	200,000		-		
Roadway/ Facility Signing Railroad Crossing Signal and ITS System	1	LS EA	\$ \$	1,000,000 400,000		400,000		
Subtotal Traffic Items							\$	465,442
Minor Items								
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	15%	of	\$	1,119,862	\$	167,979		
Subtotal Minor Items							\$	167,979
Mobilization								
Mobilization (% of Sections 1-7)	10%	of	\$	1,287,841	\$	128,784		
Subtotal Mobilization							\$	128,784
Other								
Differing Site Conditions % of Section 1 thru 8	0.0%	of	\$	3,563,645	\$	_		
General bonds and Insurance (Section 1-9) Warranty	3.0%	of LS	\$	3,563,645	\$ \$	106,909		
Financing		LS			\$	-		
Subtotal Differing Site Conditions							\$	106,909
Sales Tax								
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	9.5%	of	\$	3,670,555	\$	348,703		
Subtotal Sales Tax							\$	348,703
Project Management / Engineering								
Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10	5% 10% 2%	of of of	\$ \$ \$	3,670,555 3,670,555 3,670,555	\$	183,528 367,055 73,411		
Subtotal Section Project Management							\$	623,994
Major Utility Relocates								
Utility - Public Utility - Fiber Optics Utility Engineering (8% of Major Utility Relocates)	- 1 8%	LS LS of	\$ \$ \$	- 800,000 -	\$ \$ \$	- 800,000 -		
Subtotal Major Utility Relocations	370	<u>.</u>	*		*		\$	800,000
Cubicial major Curity (Ciocations							φ	000,000

CITY OF MAPLE VALLEY PLATFORM AND PLATFORM TRACK ESTIMATE

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate SUMMARY OF COST ESTIMATE								
TOTAL CONSTRUCTION ITEMS					\$	6,961,700	\$	7,000,000
SALES TAX					\$	563,511	\$	600,000
TOTAL RIGHT OF WAY COSTS					\$	-	\$	
PROGRAM MANAGEMENT AND ENGINEERING					\$	1,183,489	\$	1,200,000
TOTAL MAJOR UTILITY RELOCATION COSTS					\$	125,000	\$	200,000
TOTAL PROJECT COSTS (without Contingency)					\$	8,833,700		9,000,000
TOTAL PROJECT COSTS Contingency	30%				\$ \$	2,650,110 11,483,810		ROUNDED 11,500,000
	Quantity	Units		Unit Cost		Item Cost	S	ection Cost
ROADWAY/STRUCTURE ITEMS								
Preparation								
Grading, New Track	8000	CY	\$	26	\$	208,000		
Subtotal Preparation							\$	208,00
Railroad Track Rehabilitation and Construction								
Construct Maple Valley City Siding & Platform Track					\$	-		
Construct 141 lb. CWR, Conc. Tie Track Install No. 20 Turnout	2000	TF EA	\$ \$	340 350,000	\$ \$	680,000 350,000		
Subtotal Railroad Track			•	,		,	\$	1,030,000
Station Items								-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
City of Maple Valley Platform-300' long	1	EA	\$	1,800,000	\$	1,800,000		
Parking Lot Site Work and Retaining Walls at Station area	30,000	SY LS	\$ \$	50 1,000,000	\$	1,500,000 1,000,000		
Subtotal Station Items	·	20	Ψ	1,000,000	Ψ	1,000,000	\$	4,300,00
Traffic Items							Ψ	4,300,000
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Specialty excl. Env. Mit.)	10%	of	\$	208,000		20,800		
Pavement Markings at Crossings Roadway/ Facility Signing		LS LS	\$ \$	200,000	\$	-		
Railroad Crossing Signal and ITS System		EA	\$	400,000	\$	-		
Subtotal Traffic Items							\$	20,80
Minor Items								
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	15%	of	\$	4,528,800	\$	679,320		
Subtotal Minor Items							\$	679,320
Mobilization								
Mobilization (% of Sections 1-7)	10%	of	\$	5,208,120	\$	520,812		
Subtotal Mobilization							\$	520,812
Other								
Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9)	0.0% 3.0%	of of	\$ \$	6,758,932 6,758,932		202,768		
Warranty Financing		LS LS			\$ \$	-		
Subtotal Differing Site Conditions							\$	202,768
Sales Tax								
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	9.5%	of	\$	5,931,700	\$	563,511		
Subtotal Sales Tax							\$	563,51 °
Project Management / Engineering								
Preliminary Engineering	5%	of	\$	6,961,700		348,085		
Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10	10% 2%	of of	\$ \$	6,961,700 6,961,700		696,170 139,234		
Subtotal Section Project Management							\$	1,183,489
Major Utility Relocates								
Utility - Public	-	LS	\$	500,000		-		
Utility - Fiber Optics Utility Engineering (8% of Major Utility Relocates)	0.25 8%	MI of	\$ \$	500,000		125,000		
Subtotal Major Utility Relocations	- , -		*		•		\$	125,000

RAVENSDALE OPERATIONS AND MAINTENANCE FACILITY ESTIMATE

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate SUMMARY OF COST ESTIMATE)								
TOTAL CONSTRUCTION ITEMS						\$	5,487,741	\$	5,500,000
SALES TAX						\$	439,825	\$	500,000
TOTAL RIGHT OF WAY COSTS						\$	200,000	\$	200,000
PROGRAM MANAGEMENT AND ENGINEERING						\$	939,716	\$	1,000,000
TOTAL MAJOR UTILITY RELOCATION COSTS						\$	270,000	\$	300,000
TOTAL PROJECT COSTS (without Contingency)						\$	7,337,282	\$	7,500,000
Contin TOTAL PROJECT COSTS	ngency	30%				\$ \$	2,201,185 9,538,467		ROUNDED 9,600,000
		Overstitus	l luita		Unit Cost	•			
		Quantity	Units		Unit Cost		Item Cost		Section Cost
ROADWAY/STRUCTURE ITEMS									
Preparation									
Grading, New Track		4000	CY	\$	26	\$	104,000		
Subtotal Preparation								\$	104,000
Railroad Track Rehabilitation and Construction Construct Ravensdale OMF Tracks						\$	-		
Construct 141 lb. CWR, Conc. Tie Track Install No. 11 Turnout		1200 2	TF EA	\$ \$	340 245,000		408,000 490,000		
Subtotal Railroad Track								\$	898,000
Operations and Maintenance Facility Items									
Office/Crew Change Building		1,500	SF	\$	325		487,500		
Open sided steel frame repair shed Inspection pit, drip pans, and oil/water separator		11,250	SF LS	\$ \$	200 500,000	\$	2,250,000 500,000		
Parking Lot Security Fencing		3,000 1,600	SY LF	\$ \$	50 25	\$ \$	150,000 40,000	•	2 227 500
Subtotal Station Items Traffic Items								\$	3,387,500
	iolty								
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Speciexcl. Env. Mit.)	iaity	10%	of	\$	104,000		10,400		
Pavement Markings at Crossings Roadway/ Facility Signing		0	LS LS	\$ \$	200,000	\$	-		
Railroad Crossing Signal and ITS System		0	EA	\$	400,000	\$	-	•	40.400
Subtotal Traffic Items Minor Items								\$	10,400
		15%	of	e	2 501 000	C	525 295		
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items		15%	of	\$	3,501,900	Ф	525,285	•	E2E 20E
Mobilization								\$	525,285
		10%	of	\$	4,027,185	c	402.710		
Mobilization (% of Sections 1-7)		10%	OI	Ф	4,027,165	Ф	402,719	•	402.740
Subtotal Mobilization Other								\$	402,719
		0.00%	-4	Φ.	5 207 004	Φ.			
Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9)		0.0% 3.0%	of of	\$ \$	5,367,904 5,327,904		159,837		
Warranty Financing			LS LS			\$	-		
Subtotal Differing Site Conditions								\$	159,837
Sales Tax									
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)		9.5%	of	\$	4,629,741	\$	439,825		
Subtotal Sales Tax								\$	439,825
Project Management / Engineering									
Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10		5% 10% 2%	of of of	\$ \$ \$	5,527,741 5,527,741 5,527,741	\$	276,387 552,774 110,555		
Subtotal Section Project Management		∠70	UI	Φ	J,JZ1,141	Ψ	110,000	\$	939,716
Right of Way								-	
Acquisition of Residential (Based on 2010 Taxable Value)		-	LS	\$	-	\$	_		
Acquisition of Commercial (Based on 2010 Taxable Value) ROW for Retention/Detention Facilities		1 -	LS SF	\$ \$	200,000	\$ \$	200,000		
Permanent Easements Temporary Construction Easement		-	SF SF	\$ \$	-	\$ \$	-		
Change in Access Labor for Right of Way Services		-	LS LS	\$ \$	-	\$ \$	-		
Subtotal Right of Way				· 				\$	200,000
Major Utility Relocates									<u>-</u>
Utility - Public		1	LS	\$	250,000	\$	250,000		
Utility - Fiber Optics Utility Engineering (8% of Major Utility Relocates)		- 8%	LS of	\$ \$	1,000,000 250,000	\$	20,000		
Subtotal Major Utility Relocations		- 1-		•	,	•	2,300	\$	270,000
, and the second								*	0,000

Rail Relay	Limits
M P From	M

•	.a			
M.P.	From	M.P. To	Miles	TF
	85.2	85.6	0.4	2,112
	86.1	92.4	6.3	33,264
	93.2	93.8	0.6	3,168
	94.5	95.7	1.2	6,336
	96.1	98.5	2.4	12,672
	99.4	100.3	0.9	4,752
	101.3	102.7	1.4	7,392
Total			13.2	69,696

SUMMARY OF COST ESTIMATE

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate

SALES TAX TOTAL RIGHT OF WAY COSTS FROGRAM MANAGEMENT AND ENINKEERING TOTAL NAJOR UTILITY RELOCATION COSTS TOTAL PROJECT COSTS (without Contingency)	TOTAL CONSTRUCTION ITEMS					\$ 80,835,140	\$	80,900,000
TOTAL RIGHT OF WAY COSTS PROGRAM MANAGEMENT AND ENGINEERING TOTAL MAJOR UTILITY RELOCATION COSTS Contingency TOTAL PROJECT COSTS (without Contingency) TOTAL PROJECT COSTS Contingency 30% S 107,073,562 S 107,000,000 TOTAL PROJECT COSTS ROADWAYSTRUCTURE ITEMS PROJECT COSTS ROADWAYSTRUCTURE ITEMS PROJECT COSTS ROADWAYSTRUCTURE ITEMS ROADWAYSTR	SALES TAX							7 800 000
PROGRAM MANAGEMENT AND ENGINEERING								
TOTAL MAJOR UTILITY RELOCATION COSTS (without Contingency)								
TOTAL PROJECT COSTS (without Contingency 30% \$ 107,073,962 \$ 107,400,000								
TOTAL PROJECT COSTS	TOTAL MAJOR UTILITY RELOCATION COSTS					\$ 2,951,000	\$	3,000,000
Quantity Units Unit Cost Item Cost Section Cost	TOTAL PROJECT COSTS (without Contingency)	Contingency	30%					
Preparation Track Rehabilitation Estimate \$	TOTAL PROJECT COSTS	Contingency	30 %					
Prepartation			Quantity	Units	Unit Cost	Item Cos	t S	Section Cost
Track Rehabilitation Estimate \$ \$ \$ \$ \$ \$ \$ \$ \$	ROADWAY/STRUCTURE ITEMS							
Signal, Communication and PTC Estimate \$.756,000	I .							
Aubum Siding, Platform and Platform Track Estimate \$ 156,000 Covington Platform and Platform Track Estimate \$ 104,000 Covington Siding Estimate \$ 208,000 Ravensdale Operations and Maintenance Facility Estimate \$ 104,000 Ravensdale Operations and Maintenance Facility Estimate \$ 11,824,262 Railroad Track Rehabilitation and Construction Track Rehabilitation Estimate \$ 11,844,296 Signal, Communication and PTC Estimate \$ 11,844,296 Signal, Communication and PTC Estimate \$ 1,828,420 Covington Platform and Platform Track Estimate \$ 1,828,420 Covington Platform and Platform Track Estimate \$ 1,828,420 Covington Platform and Platform Track Estimate \$ 1,828,820 Covington Platform and Platform Track Estimate \$ 744,000 Covington Siding Estimate \$ 1,838,330 City of Maple Valley Platform and Platform Track Estimate \$ 738,000 Revensdale Operations and Maintenance Facility Estimate \$ 1,938,330 City of Maple Valley Platform and Platform Track Estimate \$ 1,938,330 City of Maple Valley Platform and Platform Track Estimate \$ 1,938,330 City of Maple Valley Platform and Platform Track Estimate \$ 1,938,330 City of Maple Valley Platform and Platform Track Estimate \$ 1,938,330 City of Maple Valley Platform and Platform Track Estimate \$ 1,938,330 City of Maple Valley Platform and Platform Track Estimate \$ 1,938,330 City of Maple Valley Platform and Platform Track Estimate \$ 1,938,330 City of Maple Valley Platform and Platform Track Estimate \$ 1,630,000 Covington Siding Estimate \$ 2,300,000 Covington Siding Estimate \$ 2,300,00							\$ \$	-
Covington Sidining Estimate \$ 654,420 City of Maple Vallery Platform and Platform Track Estimate \$ 208,000 Ravenscale Operations and Maintenance Facility Estimate \$ 104,000 Railroad Track Rehabilitation and Construction **** Track Rehabilitation Estimate \$ 11,844,296 Signal, Communication and PTC Estimate \$ 4,855,862 Auburn Siding, Platform and Platform Track Estimate \$ 744,000 Covington Platform and Platform Track Estimate \$ 1,383,380 City of Maple Valley Platform and Platform Track Estimate \$ 738,000 Rain Signal, Communication and PTC \$ 1,583,380 Subtoal Railroad Track \$ 1,583,380 Subtoal Railroad Track \$ 1,583,380 Signal, Communications and PTC \$ 1,583,380 Track Rehabilitation Estimate \$ 5,021,000 Signal, Communication and PTC Estimate \$ 5,021,000 Auburn Siding, Platform and Platform Track Estimate \$ 5,021,000 Covington Siding Estimate \$ 5,021,000 Covington Platform and Platform Track Estimate \$ 5,021,000 Covington Siding Estimate \$ 5,021,000 City of Maple Valley Platform and Platform Track Estimat	Auburn Siding, Platform and Platform Track Estimate						\$	
City of Maple Valley Platform and Platform Track Estimate \$ 208,000 Subtotal Preparation \$ 1,826,420 Railroad Track Rehabilitation and Construction \$ 1,826,420 Railroad Track Rehabilitation and Construction \$ 1,844,296 Signal, Communication and PTC Estimate \$ 1,844,296 Signal, Communication and PTC Estimate \$ 1,844,296 Auburn Sidring, Platform and Platform Track Estimate \$ 4,555,862 Covingion Platform and Platform Track Estimate \$ 744,000 Covingion Sidring Estimate \$ 738,000 Ravensadie Operations and Maintenance Facility Estimate \$ 738,000 Ravensadie Operations and Maintenance Facility Estimate \$ 738,000 Ravensadie Operations and Maintenance Facility Estimate \$ 738,000 Signal, Communication and PTC Estimate \$ 738,000 Signal, Communication and Maintenance Facility Estimate \$ 738,000 Signal, Communication and PTC Estimate \$ 738,000 Signal, Comm							\$	
Ravensdale Operations and Maintenance Facility Estimate \$ 1,04,000							\$	· ·
Railroad Track Rehabilitation and Construction Track Rehabilitation astimate Signal. Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Signal. Communication and PTC Estimate Signal. Communication and PTC Estimate Signal. Communication and PTC Interest Signal. Communication Siding Estimate Signal. Commu	Ravensdale Operations and Maintenance Facility Estimate						\$	104,000
Track Rehabilitation Estimate \$ 11,844,296 Signal, Communication and PTC Estimate \$ 4,585,862 Covington Platform and Platform Track Estimate \$ 744,000 Covington Platform and Platform Track Estimate \$ 738,000 City of Maple Valley Platform and Platform Track Estimate \$ 738,000 Ravensdale Operations and Maintenance Facility Estimate \$ 534,000 Signal, Communications and PTC Track Rehabilitation Estimate \$ 0,221,000 Signal, Communication and PTC Estimate \$ 0,221,000 Auburn Siding, Platform and Platform Track Estimate \$ 0,221,000 Auburn Siding, Platform and Platform Track Estimate \$ 0,221,000 Covington Platform and Platform Track Estimate \$ 0,221,000 Covington Platform and Platform Track Estimate \$ 0,221,000 City of Maple Valley Platform and Platform Track Estimate \$ 0,221,000 Subtotal Train Control Items \$ 0,221,000 Station Items \$ 0,221,000 Station Items \$ 0,221,000 Station Items \$ 0,201,000 Covington Platform and Platform Track Estimate \$ 0,201,000 Covington Platform and Platform Track Estimate \$ 1,630,000	Subtotal Preparation						\$	1,826,420
Signal, Communication and PTC Estimate \$ - A, 485,856 Laburn Siding, Platform and Platform Track Estimate \$ 744,000 Covington Platform And Platform Track Estimate \$ 734,000 City of Maple Valley Platform and Platform Track Estimate \$ 738,000 Ravensdale Operations and Maintenance Facility Estimate \$ 534,000 Subtotal Railfraid Track \$ 19,984,538 Signal, Communications and PTC Track Rehabilitation Estimate \$ 5,021,000 Signal, Communication and PTC Estimate \$ 5,021,000 Signal, Communication and PTC Estimate \$ 5,021,000 Auburn Siding, Platform and Platform Track Estimate \$ 5,021,000 Lovington Siding Estimate \$ 5,021,000 Covington Siding Estimate \$ 5,021,000 City of Maple Valley Platform and Platform Track Estimate \$ 5,021,000 Station Rems \$ 5,021,000 Track Rehabilitation Estimate \$ 5,021,000 Station Rems \$ 5,021,000 Track Rehabilitation Estimate \$ 5,021,000 Signal, Communication and PTC Estimate \$ 5,021,000 Auburn Siding, Platform and Platform Track Estimate \$ 3,400,000								
Juburn Siding, Platform and Platform Track Estimate \$ 4,588,862 Covington Platform and Platform Track Estimate \$ 744,000 City of Maple Valley Platform and Platform Track Estimate \$ 738,000 Rivensdale Operations and Maintenance Facility Estimate \$ 738,000 Ravensdale Operations and Maintenance Facility Estimate \$ 534,000 Signal, Communications and PTC * 19,984,538 Signal, Communication and PTC Estimate \$ 5,021,000 Auburn Siding, Platform and Platform Track Estimate \$ 5,021,000 Auburn Siding, Estimate \$ 5,021,000 Covington Siding Estimate \$ 5,021,000 City of Maple Valley Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - Subtotal Train Control Items \$ - Station Items \$ - Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Auburn Siding, Platform and Platform Track Estimate \$ - Covington Platform Track Estimate \$ 3,400,000 Covington Platform And Platform Track Estimate \$ 2,667,500 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$</td> <td>11,844,296</td>							\$	11,844,296
Covington Flatform and Platform Track Estimate \$ 744,000 Covington Siding Estimate \$ 1,583,380 City of Maple Valley Platform and Platform Track Estimate \$ 736,000 Ravensdale Operations and Maintenance Facility Estimate \$ 534,000 Subtotal Railinated Track \$ 19,984,538 Signal, Communications and PTC Track Rehabilitation Estimate \$ 5,021,000 Auburn Siding, Platform and Platform Track Estimate \$ 5,021,000 Covington Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - Subtotal Train Control Items \$ - Station Items Track Rehabilitation Estimate \$ - Signal, Communication and Platform Track Estimate \$ - Covington Siding Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ 3,400,000 Covington Platform and Platform Track Estimate \$ 3,400,000 Covington Platform and							\$ \$	4.585.862
City of Maple Valley Platform and Platform Track Estimate \$ 738,000 Ravensdale Operations and Maintenance Facility Estimate \$ 534,000 Ravensdale Operations and PTC * 19,884,538 Signal, Communications and PTC Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ 5,021,000 Auburn Siding, Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - City of Maple Valley Platform and Maintenance Facility Estimate \$ - Signal, Communication and PTC \$ - Subtotal Train Control Items \$ - Signal, Communication and PTC Estimate \$ - Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Covington Siding, Platform and Platform Track Estimate \$ 3,400,000 Covington Platform and Platform Track Estimate \$ 2,667,500 Covington Siding Estimate \$ 2,667,500 Subtotal Station Items \$ 1,530,000 S	Covington Platform and Platform Track Estimate						\$	
Ravensdale Operations and Maintenance Facility Estimate Subtotal Railroad Track Signal, Communications and PTC Track Rehabilitation Estimate Signal, Communication and PTC Estimate Signal, Communication and Ptatform Track Estimate Signal, Communication and Ptatform Track Estimate Signal, Communication and Ptatform Track Estimate Signal, Communication and Maintenance Facility Estimate Signal, Communication and Maintenance Facility Estimate Signal, Communication and PTC Estimate Signal, Communication and PTC Estimate Signal, Communication and Ptatform Track E							\$	
Subtotal Railroad Track \$ 19,984,538 Signal, Communications and PTC *** Track Rehabilitation Estimate \$ 5,021,000 Signal, Communication and PTC Estimate \$ 5,021,000 Auburn Siding, Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - Ravensdale Operations and Maintenance Facility Estimate \$ - Subtotal Train Control Items \$ 5,021,000 Station Items \$ - Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Auburn Siding, Platform and Platform Track Estimate \$ 1,630,000 Covington Platform and Platform Track Estimate \$ 3,400,000 City of Maple Valley Platform and Platform Track Estimate \$ 4,400,000 City of Maple Valley Platform and Platform Track Estimate \$ 2,667,500 Subtotal Station Items \$ 2,297,500 Structures * * Track Rehabilitation Estimate \$ 2,300,000 Covington Platform and Platform Track Estimate \$ - Signal, Communication and PTC Estimate \$ - Covington Platform and Platform Track Estimate \$ - Covington Plat							\$ \$	
Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ 5,021,000 Auburn Siding, Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ - Covington Siding Estimate \$ - Covington Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ - Covington Platform Alphatform Track Estimate \$ - Covington Platform Alphatform Signal, Communication and Maintenance Facility Estimate \$ - Covington Siding Estimate \$ - Covington Platform Alphatform Track Estimate \$ - Covington Platform Alphatform Track Estimate \$ 1,630,000 Covington Platform and Platform Track Estimate \$ 3,400,000 Covington Platform and Platform Track Estimate \$ 2,667,500 Subtotal Station Items \$ 2,667,500 Subtotal Station Items \$ 2,667,500 Subtotal Station Items \$ 2,300,000 Covington Platform and Platform Track Estimate \$ 2,300,000 Covington Platform and Platform Track Estimate \$ 2,300,000 Covington Siding Estimate \$ - Cov							\$	· ·
Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ 5,021,000 Auburn Siding, Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ - Covington Siding Estimate \$ - Covington Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ - Covington Platform Alphatform Track Estimate \$ - Covington Platform Alphatform Signal, Communication and Maintenance Facility Estimate \$ - Covington Siding Estimate \$ - Covington Platform Alphatform Track Estimate \$ - Covington Platform Alphatform Track Estimate \$ 1,630,000 Covington Platform and Platform Track Estimate \$ 3,400,000 Covington Platform and Platform Track Estimate \$ 2,667,500 Subtotal Station Items \$ 2,667,500 Subtotal Station Items \$ 2,667,500 Subtotal Station Items \$ 2,300,000 Covington Platform and Platform Track Estimate \$ 2,300,000 Covington Platform and Platform Track Estimate \$ 2,300,000 Covington Siding Estimate \$ - Cov	Signal. Communications and PTC							
Auburn Siding, Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - Ravensdale Operations and Maintenance Facility Estimate \$ - Subtotal Train Control Items \$ 5,021,000 Station Items Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Auburn Siding, Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - Ravensdale Operations and Maintenance Facility Estimate \$ - Signal, Communication and PTC Estimate \$ - Auburn Siding, Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - <	Track Rehabilitation Estimate						\$	-
Covington Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - Ravensdale Operations and Maintenance Facility Estimate \$ - Subtotal Train Control Items \$ - Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Signal, Communication and Platform Track Estimate \$ 1,630,000 Covington Platform and Platform Track Estimate \$ 3,400,000 Covington Siding Estimate \$ 4,400,000 City of Maple Valley Platform and Platform Track Estimate \$ 2,667,500 Subtotal Station Items \$ 2,667,500 Subtotal Station Items \$ - Signal, Communication and PTC Estimate \$ - Signal, Communication and PTC Estimate \$ - Signal, Communication and PTC Estimate \$ - Covington Platform and Platform Track Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - City of Maple Val							\$	5,021,000
Covington Siding Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - Ravensdale Operations and Maintenance Facility Estimate \$ - Subtotal Train Control Items \$ 5,021,000 Station Items Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Auburn Siding, Platform and Platform Track Estimate \$ 1,630,000 Covington Platform and Platform Track Estimate \$ 3,400,000 Covington Siding Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ 2,667,500 Subtotal Station Items \$ 2,667,500 Structures Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Auburn Siding, Platform and Platform Track Estimate \$ - Covington Platform and Platform Track Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>\$</td><td>-</td></t<>							\$	-
Ravensdale Operations and Maintenance Facility Estimate \$ 5,021,000 Station Items	_						\$	-
Station Items Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Auburn Siding, Platform and Platform Track Estimate \$ 1,630,000 Covington Platform and Platform Track Estimate \$ 3,400,000 Covington Siding Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ 4,400,000 Ravensdale Operations and Maintenance Facility Estimate \$ 2,667,500 Subtotal Station Items \$ 12,097,500 Structures \$ - Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Signal, Communication and PTC Estimate \$ - Covington Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ 23,300,000 Covington Siding Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - Ravensdale Operations and Maintenance Facility Estimate \$ -							\$	-
Station Items Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Auburn Siding, Platform and Platform Track Estimate \$ 1,630,000 Covington Platform and Platform Track Estimate \$ 3,400,000 Covington Siding Estimate \$ 4,400,000 City of Maple Valley Platform and Platform Track Estimate \$ 2,667,500 Ravensdale Operations and Maintenance Facility Estimate \$ 2,667,500 Subtotal Station Items \$ 12,097,500 Structures Track Rehabilitation Estimate \$ - Signal, Communication and PTC Estimate \$ - Auburn Siding, Platform and Platform Track Estimate \$ 23,300,000 Covington Platform and Platform Track Estimate \$ - Covington Siding Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ - City of Maple Valley Platform and Maintenance Facility Estimate \$ - Ravensdale Operations and Maintenance Facility Estimate \$ -	· · · · · · · · · · · · · · · · · · ·						\$ \$	5 021 000
Track Rehabilitation Estimate Signal, Communication and PTC Estimate Signal, Communication and PTC Estimate Signal, Communication and Platform Track Estimate Sovington Platform and Platform Track Estimate Sovington Platform and Platform Track Estimate Sovington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Station Items Structures Track Rehabilitation Estimate Signal, Communication and PTC Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Signal, Communication and PTC Estimate Signal, Communication and PTC Estimate Signal, Platform and Platform Track Estimate Sovington Siding Estimate Covington Platform and Platform Track Estimate Sovington Siding Est								0,021,000
Signal, Communication and PTC Estimate \$ - Auburn Siding, Platform and Platform Track Estimate \$ 1,630,000 Covington Platform and Platform Track Estimate \$ 3,400,000 Covington Siding Estimate \$ - City of Maple Valley Platform and Platform Track Estimate \$ 4,400,000 Ravensdale Operations and Maintenance Facility Estimate \$ 2,667,500 Subtotal Station Items \$ 12,097,500 Structures Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate Covington Siding Estimate Signal, Communication and Platform Track E							c	
Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Siding Platform and Platform Track Estimate Siding Estimate							Ф \$	
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Station Items Structures Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate Signal, Substitution Stimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Signal, Substitution Stimate Signal, Communication and Platform Track Estimate Signal, Communication and Platf	Auburn Siding, Platform and Platform Track Estimate						\$	· · · · ·
City of Maple Valley Platform and Platform Track Estimate\$ 4,400,000Ravensdale Operations and Maintenance Facility Estimate\$ 2,667,500Subtotal Station Items\$ 12,097,500 Structures Track Rehabilitation Estimate Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate\$ -	-						\$	3,400,000
Ravensdale Operations and Maintenance Facility Estimate Subtotal Station Items Structures Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate Signal Platform and Platform Track Estimate Signal Platform Signal Pl							Ф \$	4,400.000
StructuresTrack Rehabilitation Estimate\$ -Signal, Communication and PTC Estimate\$ -Auburn Siding, Platform and Platform Track Estimate\$ 23,300,000Covington Platform and Platform Track Estimate\$ -Covington Siding Estimate\$ -City of Maple Valley Platform and Platform Track Estimate\$ -Ravensdale Operations and Maintenance Facility Estimate\$ -	Ravensdale Operations and Maintenance Facility Estimate						\$	2,667,500
Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ -	Subtotal Station Items						\$	12,097,500
Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ -								
Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ 23,300,000 \$ -							\$ •	-
Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ -							Ф \$	23,300,000
City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate \$ -	Covington Platform and Platform Track Estimate						\$	-
Ravensdale Operations and Maintenance Facility Estimate \$ -							\$ ¢	-
							\$	-
	Subtotal Structures						\$	23,300,000

	Quantity	Units	Unit Cost	Item Cost	Section	on Cost
Traffic Items						
Track Rehabilitation Estimate					\$	-
Signal, Communication and PTC Estimate					\$	0.005.000
Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate					ዕ	3,605,600 10,400
Covington Siding Estimate Covington Siding Estimate					Φ \$	465,442
City of Maple Valley Platform and Platform Track Estimate					\$	20,800
Ravensdale Operations and Maintenance Facility Estimate					\$	10,400
Subtotal Traffic Items					\$	4,112,642
Minor Items						
Track Rehabilitation Estimate					\$	-
Signal, Communication and PTC Estimate					\$	-
Auburn Siding, Platform and Platform Track Estimate					\$	4,393,740
Covington Platform and Platform Track Estimate Covington Siding Estimate					Φ Φ	527,160 167,979
City of Maple Valley Platform and Platform Track Estimate					\$	694,320
Ravensdale Operations and Maintenance Facility Estimate					\$	417,285
Subtotal Minor Items					\$	6,200,484
Mobilization						
Track Rehabilitation Estimate					\$	-
Signal, Communication and PTC Estimate					\$	
Auburn Siding, Platform and Platform Track Estimate					\$	3,368,534
Covington Platform and Platform Track Estimate					\$ ¢	404,156
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate					φ \$	128,784 532,312
Ravensdale Operations and Maintenance Facility Estimate					\$	319,919
Subtotal Mobilization					\$	4,753,705
Other						
Track Rehabilitation Estimate					\$	390,862
Signal, Communication and PTC Estimate					\$	150,630
Auburn Siding, Platform and Platform Track Estimate					\$	1,249,192
Covington Platform and Platform Track Estimate					\$	155,691
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate					\$ ¢	88,650 197,803
City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate					Φ \$	121,593
Subtotal Differing Site Conditions					\$	2,354,422
Sales Tax						
Track Rehabilitation Estimate					\$	1,274,861
Signal, Communication and PTC Estimate					\$	491,305
Auburn Siding, Platform and Platform Track Estimate					\$	4,121,378
Covington Platform and Platform Track Estimate					\$	507,814
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate					ቅ	289,147 645,167
Ravensdale Operations and Maintenance Facility Estimate					φ \$	400,396
Subtotal Sales Tax					\$	7,730,068
Project Management / Engineering						
Track Rehabilitation Estimate					\$	2,281,330
Signal, Communication and PTC Estimate					\$	879,177
Auburn Siding, Platform and Platform Track Estimate						7 075 000
					\$	
Covington Platform and Platform Track Estimate					\$ \$	908,719
Covington Siding Estimate					\$ \$ \$	908,719 517,421
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate					\$ \$ \$ \$	908,719 517,421 1,154,510
Covington Siding Estimate					\$ \$ \$ \$ \$	7,375,098 908,719 517,421 1,154,510 716,498 13,832,754
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management					\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	908,719 517,421 1,154,510 716,498
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate					\$ \$ \$ \$	908,719 517,421 1,154,510 716,498
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way						908,719 517,421 1,154,510 716,498
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate						908,719 517,421 1,154,510 716,498
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate						908,719 517,421 1,154,510 716,498 13,832,754
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate						908,719 517,421 1,154,510 716,498 13,832,754
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate						908,719 517,421 1,154,510 716,498 13,832,754 - - 1,525,000
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate						908,719 517,421 1,154,510 716,498 13,832,754 - - 1,525,000 - - 200,000
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Right of Way					\$ \$ \$ \$ \$ \$ \$ \$ \$	908,719 517,421 1,154,510 716,498 13,832,754 - - 1,525,000 - - 200,000
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate					\$ \$ \$ \$ \$ \$ \$ \$ \$	908,719 517,421 1,154,510 716,498 13,832,754 - - 1,525,000 - - 200,000
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Right of Way Major Utility Relocates Track Rehabilitation Estimate					\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	908,719 517,421 1,154,510 716,498 13,832,754 - - 1,525,000 - - 200,000
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Right of Way Major Utility Relocates Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate					\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	908,719 517,421 1,154,510 716,498 13,832,754 - 1,525,000 1,725,000 1,725,000
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Right of Way Major Utility Relocates Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Platform and Platform Track Estimate					\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	908,719 517,421 1,154,510 716,498 13,832,754 - 1,525,000 - 200,000 1,725,000 1,540,000 216,000
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Right of Way Major Utility Relocates Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate					\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	908,719 517,421 1,154,510 716,498 13,832,754 - 1,525,000 - 200,000 1,725,000 1,540,000 216,000 800,000
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Right of Way Major Utility Relocates Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate					\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	908,719 517,421 1,154,510 716,498 13,832,754 - 1,525,000 - 200,000 1,725,000 - 1,540,000 216,000 800,000 125,000
Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Section Project Management Right of Way Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate City of Maple Valley Platform and Platform Track Estimate Ravensdale Operations and Maintenance Facility Estimate Subtotal Right of Way Major Utility Relocates Track Rehabilitation Estimate Signal, Communication and PTC Estimate Auburn Siding, Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Platform and Platform Track Estimate Covington Siding Estimate					\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	908,719 517,421 1,154,510 716,498 13,832,754 - 1,525,000 - 200,000 1,725,000 1,540,000 216,000 800,000

2,281,330

TRACK REHABILITATION ESTIMATE - CONTRACTOR COST BASIS

Subtotal Section Project Management

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate SUMMARY OF COST ESTIMATE TOTAL CONSTRUCTION ITEMS 13,500,000 13,419,587 \$ **SALES TAX** 1,274,861 \$ 1,300,000 **TOTAL RIGHT OF WAY COSTS** - \$ PROGRAM MANAGEMENT AND ENGINEERING 2,281,330 \$ 2,300,000 **TOTAL MAJOR UTILITY RELOCATION COSTS** - \$ **TOTAL PROJECT COSTS (without Contingency)** 16,975,778 \$ 17,100,000 Contingency 30% 5,092,733 ROUNDED **TOTAL PROJECT COSTS 22,068,511** | \$ 22,100,000 Item Cost Section Cost Unit Cost Quantity Units **ROADWAY/STRUCTURE ITEMS** Railroad Track Rehabilitation and Construction Rehabilitate Existing Mainline, Auburn to Ravensdale Relay Rail 60086 TF 160 \$ 9,613,760 Install Ties, 30% 64 \$ 899,712 14058 EΑ 18 \$ Track Surace and Lining including ballast 74976 TF 1,330,824 **Subtotal Railroad Track** 11,844,296 Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) 15% of **Subtotal Minor Items** Mobilization Mobilization (% of Sections 1-7) 10% \$ 11,844,296 \$ 1,184,430 Subtotal Mobilization 1,184,430 Other Differing Site Conditions % of Section 1 thru 8 0.0% 13,028,726 \$ of General bonds and Insurance (Section 1-9) 3.0% of 13,028,726 \$ 390,862 Warranty LS LS Financing Subtotal Differing Site Conditions 390,862 Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) 1,274,861 9.5% 13,419,587 \$ **Subtotal Sales Tax** 1,274,861 Project Management / Engineering Preliminary Engineering 13,419,587 \$ 670,979 Constr Engr and Insp % of Sections 1 thru 10 10% 13,419,587 \$ 1,341,959 Program Management % of Sections 1 thru 10 268,392 13,419,587 \$

SIGNAL, COMMUNICATIONS and PTC ESTIMATE - CONTRACTOR COST BASIS

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate SUMMARY OF COST ESTIMATE								
TOTAL CONSTRUCTION ITEMS					\$	5,171,630	\$	5,200,000
SALES TAX					\$	491,305	\$	500,000
TOTAL RIGHT OF WAY COSTS					\$	-	\$	-
PROGRAM MANAGEMENT AND ENGINEERING					\$	879,177	\$	900,000
TOTAL MAJOR UTILITY RELOCATION COSTS					\$	-	\$	-
TOTAL PROJECT COSTS (without Contingency)					\$	6,542,112		6,600,000
TOTAL PROJECT COSTS Contingency	30%				\$ \$	1,962,634 8,504,746		8,600,000
	Quantity	Units		Unit Cost		Item Cost	S	ection Cost
ROADWAY/STRUCTURE ITEMS								
Signal, Communications and PTC Signal, CTC and PTC overlay, Auburn to West Kanaskat	1	LS	\$	5,021,000	\$	5,021,000		
Subtotal Train Control Items							\$	5,021,000
Traffic Items								
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Specialty	10%	of	\$	_	\$	_		
excl. Env. Mit.) Pavement Markings at Crossings		LS	\$	200,000		-		
Roadway/ Facility Signing Railroad Crossing Signal and ITS System		LS EA	\$ \$	1,000,000 400,000	\$ \$	-		
Subtotal Traffic Items							\$	_
Minor Items								
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	15%	of	\$	-	\$	-		
Subtotal Minor Items							\$	-
Mobilization								
Mobilization (% of Sections 1-7)	10%	of	\$	-	\$	-		
Subtotal Mobilization							\$	-
Other								
Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9)	0.0% 3.0%	of of	\$ \$	5,021,000 5,021,000		- 150,630		
Warranty Financing	0.070	LS LS	•	3,021,000	\$ \$	-		
Subtotal Differing Site Conditions							\$	150,630
Sales Tax								
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	9.5%	of	\$	5,171,630	\$	491,305		
Subtotal Sales Tax							\$	491,305
Project Management / Engineering								
Preliminary Engineering	5%	of	\$	5,171,630		258,582		
Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10	10% 2%	of of	\$ \$	5,171,630 5,171,630		517,163 103,433		
Subtotal Section Project Management							\$	879,177

CONTRACTOR COST BASIS

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate							
TOTAL CONSTRUCTION ITEMS					\$	42,888,928	\$ 42,900,000
SALES TAX (less BNSF Force Account Work)					\$	4,121,378	
TOTAL RIGHT OF WAY COSTS					\$	1,525,000	
PROGRAM MANAGEMENT AND ENGINEERING					\$	7,375,098	
TOTAL MAJOR UTILITY RELOCATION COSTS					\$	1,540,000	
TOTAL PROJECT COSTS (without Contingency) Contingency	30%				\$ \$	57,450,404 17,235,121	\$ 57,700,000 ROUNDED
TOTAL PROJECT COSTS					\$	74,685,525	\$ 74,700,000
C	Quantity	Units		Unit Cost		Item Cost	Section Cost
ROADWAY/STRUCTURE ITEMS							
Preparation							
Demolition of Existing Grade Separation - Bridge	2	EA	\$	100,000	\$	200,000	
Demolition of Existing Grade Separation - Walls Building Demolition - Residential	2 2	EA EA	\$ \$	50,000 20,000	\$ \$	100,000 40,000	
Grading, New Track Siding Grading, New Track Station	16000 19000	CY CY	\$	26 26	\$ \$	416,000 494,000	
Subtotal Preparation			Ť		Ť	.0.,000	\$ 756,000
Railroad Track Rehabilitation and Construction							700,000
Extended Auburn Siding Remove Existing Siding	2600	TF	\$	11	\$	27,742	
Remove Existing Turnouts	1 5000	EA CY	\$ \$	7,400 16	\$ \$	7,400	
Grading/Compaction Existing Track Construct 141 lb. CWR, Conc. Tie Track	10880	TF	\$	244	\$	79,400 2,654,720	
Install No. 20 Turnout Construct RR Bridge, MP 101.18	1 150	EA TF	\$ \$	250,000 6,500	\$ \$	250,000 975,000	
Construct Auburn Station Track							
Construct 141lb. CWR, Conc. Tie Track Install No. 20 Turnout	1400 1	TF EA	\$ \$	244 250,000		341,600 250,000	
Subtotal Railroad Track							\$ 4,585,862
Station Items							
Auburn Platform, 300 ft. long Parking Lot	1 600	EACH SY	\$ \$	1,600,000 50	\$ \$	1,600,000 30,000	
Subtotal Station Items			Ť		•	33,333	\$ 1,630,000
Structures							
Widen RR Bridge - A Street	1	LS	\$	1,500,000	œ	1,500,000	
Replace RR Bridge and Construct New Bridge - Auburn Way S	1	LS	\$	3,000,000	\$	3,000,000	
Replace RR Bridge and Construct New Bridge - F Street Roadway Crossing - M Street	1	LS LS	\$ \$	1,800,000 1,000,000	\$ \$	1,800,000 1,000,000	
Grade Separate SE Auburn/BlackDiamond Rd	1	LS	\$	16,000,000	\$	16,000,000	
Subtotal Structures Traffic Items							\$ 23,300,000
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Specialty excl. Env. Mit.)	10%	of	\$	24,056,000	\$	2 405 600	
	1070			200 000		2,405,600	
Pavement Markings at Crossings Roadway/ Facility Signing	1 1	LS LS	\$ \$	200,000 1,000,000	\$ \$	200,000 1,000,000	
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System	1 1 0	LS	\$	-	\$ \$	200,000	
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items	1 1	LS LS	\$ \$	1,000,000	\$ \$	200,000	\$ 3,605,600
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items	1 1 0	LS LS	\$ \$	1,000,000	\$ \$ \$	200,000 1,000,000	\$ 3,605,600
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items	1 1	LS LS	\$ \$	1,000,000	\$ \$ \$	200,000	\$ 3,605,600
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items	1 1 0	LS LS EA	\$ \$ \$	1,000,000	\$ \$ \$	200,000 1,000,000	
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	1 1 0	LS LS EA	\$ \$ \$	1,000,000	\$ \$ \$	200,000 1,000,000	
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items	1 1 0	LS LS EA	\$ \$ \$	1,000,000	\$ \$ \$	200,000 1,000,000	
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization	1 1 0	LS LS EA	\$ \$ \$	1,000,000 400,000 29,291,600	\$ \$ \$	200,000 1,000,000 - 4,393,740	\$ 4,393,740
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization (% of Sections 1-7)	1 1 0	LS LS EA	\$ \$ \$	1,000,000 400,000 29,291,600	\$ \$ \$	200,000 1,000,000 - 4,393,740	\$ 4,393,740
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization Other Differing Site Conditions % of Section 1 thru 8	1 1 0 15%	LS LS EA of	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736	\$ \$ \$	200,000 1,000,000 - 4,393,740 3,368,534	\$ 4,393,740
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty	1 1 0	of of LS	\$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340	\$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 - 4,393,740	\$ 4,393,740
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing	1 1 0 15%	LS LS EA of	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 - 4,393,740 3,368,534	\$ 4,393,740 \$ 3,368,534
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions	1 1 0 15%	of of LS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736	\$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 - 4,393,740 3,368,534	\$ 4,393,740 \$ 3,368,534
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax	1 1 0 15% 10%	of of LS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736	\$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 - 4,393,740 3,368,534	\$ 4,393,740 \$ 3,368,534
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	1 1 0 15%	of of LS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736	\$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 - 4,393,740 3,368,534	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax	1 1 0 15% 10%	of of LS LS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736	\$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 - 4,393,740 3,368,534	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	1 1 0 15% 10%	of of LS LS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736	\$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 - 4,393,740 3,368,534	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items Minor Items Mobilization Mobilization Mobilization Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax Sales Tax Project Management / Engineering Preliminary Engineering	1 1 0 15% 10% 0.0% 3.0%	of of LS LS	\$\$\$\$ \$\$\$\$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 4,393,740 3,368,534 - 1,249,192 - - - - 4,121,378	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) Subtotal Sales Tax	1 1 0 15% 10% 0.0% 3.0%	of of LS LS of	\$\$\$\$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 4,393,740 3,368,534 - 1,249,192 - -	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items Minor Items Mobilization Mobilization Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax Sales Tax Project Management / Engineering Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10	1 1 0 0 15% 10% 5% 10%	of of LS LS of of of	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928 43,382,928 43,382,928	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 - 4,393,740 3,368,534 - 1,249,192 - - - - 4,121,378	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192 \$ 4,121,378
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) Subtotal Sales Tax Project Management / Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10 Subtotal Section Project Management	1 1 0 0 15% 10% 5% 10%	of of LS LS of of of	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928 43,382,928 43,382,928	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	200,000 1,000,000 - 4,393,740 3,368,534 - 1,249,192 - - - - 4,121,378	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192 \$ 4,121,378
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) Subtotal Sales Tax Project Management / Engineering Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10 Subtotal Section Project Management Right of Way Acquisition of Residential (Based on 2010 Taxable Value)	1 1 0 0 15% 10% 5% 10%	of of LS LS LS LS LS LS	\$\$\$\$ \$\$\$\$ \$\$\$\$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928 43,382,928 43,382,928 43,382,928 43,382,928	\$\$\$\$ \$	200,000 1,000,000 4,393,740 3,368,534 - 1,249,192 - - - - 4,121,378 2,169,146 4,338,293 867,659	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192 \$ 4,121,378
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) Subtotal Sales Tax Project Management / Engineering Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10 Subtotal Section Project Management Right of Way Acquisition of Residential (Based on 2010 Taxable Value) ROW for Retention/Detention Facilities	1 1 0 0 15% 10% 5% 10%	of of cof of of cof special control co	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928 43,382,928 43,382,928 43,382,928 43,382,928	\$\$\$\$ \$ \$\$\$\$\$ \$ \$\$\$\$	200,000 1,000,000 - 4,393,740 3,368,534 - 1,249,192 - - - 4,121,378 2,169,146 4,338,293 867,659	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192 \$ 4,121,378
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) Subtotal Sales Tax Project Management / Engineering Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10 Subtotal Section Project Management Right of Way Acquisition of Residential (Based on 2010 Taxable Value) Acquisition of Residential (Based on 2010 Taxable Value) ROW for Retention/Detention Facilities Permanent Easements Temporary Construction Easement	1 1 0 0 15% 10% 5% 10%	of of LS LS SF SF SF SF	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928 43,382,928 43,382,928 43,382,928 43,382,928	\$\$\$\$ \$ \$\$\$\$\$	200,000 1,000,000 4,393,740 3,368,534 - 1,249,192 - - - - 4,121,378 2,169,146 4,338,293 867,659	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192 \$ 4,121,378
Pavement Markings at Crossings Roadway/ Facility Signing Radiroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) Subtotal Sales Tax Project Management / Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10 Subtotal Section Project Management Right of Way Acquisition of Residential (Based on 2010 Taxable Value) Acquisition of Commercial (Based on 2010 Taxable Value) ROW for Retention/Detention Facilities Permanent Easements Temporary Construction Easement Change in Access Labor for Right of Way Services	1 1 0 0 15% 10% 5% 10%	of of control of contr	\$\$\$\$ \$\$\$\$ \$\$\$\$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928 43,382,928 43,382,928 43,382,928 43,382,928	\$\$\$\$ \$	200,000 1,000,000 4,393,740 3,368,534 - 1,249,192 - - - - 4,121,378 2,169,146 4,338,293 867,659	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192 \$ 4,121,378 \$ 7,375,098
Pavement Markings at Crossings Roadway/ Facility Signing Radiroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) Subtotal Sales Tax Project Management / Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10 Subtotal Section Project Management Right of Way Acquisition of Residential (Based on 2010 Taxable Value) Acquisition of Residential (Based on 2010 Taxable Value) ROW for Retention/Detention Facilities Permanent Easements Temporary Construction Easement Change in Access Labor for Right of Way Subtotal Right of Way Subtotal Right of Way	1 1 0 0 15% 10% 5% 10%	of of LS LS SF SF SF LS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928 43,382,928 43,382,928 43,382,928 43,382,928	\$\$\$\$ \$ \$\$\$\$\$ \$ \$\$\$\$\$	200,000 1,000,000 4,393,740 3,368,534 - 1,249,192 - - - - 4,121,378 2,169,146 4,338,293 867,659	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192 \$ 4,121,378 \$ 7,375,098
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) Subtotal Sales Tax Project Management / Engineering Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10 Subtotal Section Project Management Right of Way Acquisition of Residential (Based on 2010 Taxable Value) Acquisition of Commercial (Based on 2010 Taxable Value) ROW for Retention/Detention Facilities Permanent Easements Temporary Construction Easement Change in Access Labor for Right of Way Services Subtotal Right of Way Major Utility Relocates	1 1 0 0 15% 10% 5% 10%	of of LS LS SF SF LS LS LS	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928 43,382,928 43,382,928 43,382,928 43,382,928	\$\$\$\$ \$ \$\$\$\$\$ \$ \$\$\$\$\$\$	200,000 1,000,000 - 4,393,740 3,368,534 - 1,249,192 - - - - - - - - - - - - - - - - - - -	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192 \$ 4,121,378 \$ 7,375,098
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) Subtotal Sales Tax Project Management / Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10 Subtotal Section Project Management Right of Way Acquisition of Residential (Based on 2010 Taxable Value) Acquisition of Commercial (Based on 2010 Taxable Value) ROW for Retention/Detention Facilities Permanent Easements Temporary Construction Easement Change in Access Labor for Right of Way Services Subtotal Public Utility - Public Utility - Fiber Optics	1 1 0 0 15% 10% 2% 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of of of of of of of services and services are services as a service services and services are services as a service service service service services are services as a service service service service services are services as a service service service service service service services are services as a service service service service service service services are services as a service	\$\$\$\$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928 43,382,928 43,382,928 43,382,928 43,382,928 1,225,000 1,225,000 1,000,000 1,000,000	\$\$\$\$ \$\$ \$\$\$\$\$\$ \$	200,000 1,000,000 - 4,393,740 3,368,534 - 1,249,192 - - - 4,121,378 4,121,378 2,169,146 4,338,293 867,659	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192 \$ 4,121,378 \$ 7,375,098
Pavement Markings at Crossings Roadway/ Facility Signing Railroad Crossing Signal and ITS System Subtotal Traffic Items Minor Items Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.) Subtotal Minor Items Mobilization Mobilization Mobilization (% of Sections 1-7) Subtotal Mobilization Other Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9) Warranty Financing Subtotal Differing Site Conditions Sales Tax Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work) Subtotal Sales Tax Project Management / Engineering Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10 Subtotal Section Project Management Right of Way Acquisition of Residential (Based on 2010 Taxable Value) Acquisition of Commercial (Based on 2010 Taxable Value) ROW for Retention/Detention Facilities Permanent Easements Temporary Construction Easement Change in Access Labor for Right of Way Services Subtotal Right of Way Major Utility Relocates Utility - Public	1 1 0 0 15% 10% 2% 1 1 1 1 1 1	of of control of contr	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000,000 400,000 29,291,600 33,685,340 42,133,736 41,639,736 43,382,928 43,382,928 43,382,928 43,382,928 43,382,928 500,000	\$\$\$\$ \$\$ \$\$\$\$\$\$ \$	200,000 1,000,000 - 4,393,740 3,368,534 - 1,249,192 - - - 4,121,378 2,169,146 4,338,293 867,659	\$ 4,393,740 \$ 3,368,534 \$ 1,249,192 \$ 4,121,378 \$ 7,375,098

216,000

COVINGTON PLATFORM and PLATFORM TRACK ESTIMATE - CONTRACTOR COST BASIS

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate SUMMARY OF COST ESTIMATE								
TOTAL CONSTRUCTION ITEMS					\$	5,345,407	\$	5,400,000
SALES TAX					\$	507,814		600,000
TOTAL RIGHT OF WAY COSTS					\$	-		, -
PROGRAM MANAGEMENT AND ENGINEERING					\$	908,719		1,000,000
TOTAL MAJOR UTILITY RELOCATION COSTS					\$	216,000		300,000
TOTAL PROJECT COSTS (without Contingency)					\$	6,977,940		7,300,000
Contingency	30%				\$ \$	2,093,382		ROUNDED
TOTAL PROJECT COSTS						9,071,322		9,100,000
	Quantity	Units		Unit Cost		Item Cost	S	ection Cost
ROADWAY/STRUCTURE ITEMS								
Preparation								
Grading, New Track	4000	CY	\$	26	\$	104,000		
Subtotal Preparation							\$	104,000
Railroad Track Rehabilitation and Construction								
Construct Covington DMU Siding & Station Track Construct 141 lb. CWR, Conc. Tie Track Install No. 20 Turnout	1000	TF EA	\$ \$	244 250,000		244,000 500,000		
Subtotal Railroad Track							\$	744,000
Station Items								
Covington Platfrom, 300 ft. long	1	EA	œ	1,600,000	¢	1,600,000		
Parking Lot	36,000	SY	\$ \$	50		1,800,000		
Subtotal Station Items							\$	3,400,000
Traffic Items								
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Specialty excl. Env. Mit.)	10%	of	\$	104,000	\$	10,400		
Pavement Markings at Crossings Roadway/ Facility Signing	0	LS LS	\$ \$	200,000 1,000,000		-		
Railroad Crossing Signal and ITS System	0	EA	\$	400,000		-		
Subtotal Traffic Items							\$	10,400
Minor Items								
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	15%	of	\$	3,514,400	\$	527,160		
Subtotal Minor Items							\$	527,160
Mobilization								
Mobilization (% of Sections 1-7)	10%	of	\$	4,041,560	\$	404,156		
Subtotal Mobilization							\$	404,156
Other								
Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9)	0.0% 3.0%	of of	\$ \$	5,189,716 5,189,716		- 155,691		
Warranty Financing		LS LS			\$ \$	-		
Subtotal Differing Site Conditions							\$	155,691
Sales Tax								
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	9.5%	of	\$	5,345,407	\$	507,814		
Subtotal Sales Tax							\$	507,814
Project Management / Engineering								
Preliminary Engineering Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10	5% 10% 2%	of of of	\$ \$ \$	5,345,407 5,345,407 5,345,407	\$	267,270 534,541 106,908		
Subtotal Section Project Management	∠70	UI	φ	J,J4J,4U/	φ	100,900	\$	908,719
Right of Way							Y	300,713
Subtotal Right of Way							\$	_
Major Utility Relocates							*	
Utility - Public	1	LS	\$	200,000	\$	200,000		
Utility - Fiber Optics Utility Engineering (8% of Major Utility Relocates)	- 8%	LS of	\$	200,000	\$	16,000		
Subtotal Major Utility Relocations	5 70	٠.	~	_55,566	*	.0,000	¢	216 000

Subtotal Major Utility Relocations

COVINGTON SIDING ESTIMATE - CONTRACTOR COST BASIS

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate SUMMARY OF COST ESTIMATE								
TOTAL CONSTRUCTION ITEMS					\$	3,043,656	\$	3,100,000
SALES TAX					\$	289,147	\$	300,000
TOTAL RIGHT OF WAY COSTS					\$	-	\$	-
PROGRAM MANAGEMENT AND ENGINEERING					\$	517,421	\$	600,000
TOTAL MAJOR UTILITY RELOCATION COSTS					\$	800,000	\$	800,000
TOTAL PROJECT COSTS (without Contingency)					\$	4,650,224	\$	4,800,000
TOTAL PROJECT COSTS Contingency	30%				\$ \$	1,395,067 6,045,291		ROUNDED 6,100,000
	Quantitu	Unito		Unit Cost				ection Cost
	Quantity	Units		Offic Cost		item cost		ection cost
ROADWAY/STRUCTURE ITEMS								
Preparation								
Grading, New Track	25170	CY	\$	26	\$	654,420		
Subtotal Preparation							\$	654,420
Railroad Track Rehabilitation and Construction								
Extend Covington Freight Siding to min 8,000 ft. clear Remove Existing Turnouts	2	EA	\$	7,400		14,800		
Construct 141 lb. CWR, Conc. Tie Track Install No. 20 Turnout	4195 2	TF EA	\$ \$	244 250,000		1,023,580 500,000		
Subtotal Railroad Track							\$	1,538,380
Traffic Items								
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Specialty excl. Env. Mit.)	10%	of	\$	654,420	\$	65,442		
Pavement Markings at Crossings Roadway/ Facility Signing		LS LS	\$ \$	200,000 1,000,000		-		
Railroad Crossing Signal and ITS System	1	EA	\$	400,000	\$	400,000		
Subtotal Traffic Items							\$	465,442
Minor Items								
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	15%	of	\$	1,119,862	\$	167,979		
Subtotal Minor Items							\$	167,979
Mobilization								
Mobilization (% of Sections 1-7)	10%	of	\$	1,287,841	\$	128,784		
Subtotal Mobilization							\$	128,784
Other								
Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9)	0.0% 3.0%	of of	\$ \$	2,955,005 2,955,005	\$ \$	- 88,650		
Warranty Financing	0.070	LS LS	•	2,000,000	\$ \$	-		
Subtotal Differing Site Conditions		20			Ψ		\$	88,650
Sales Tax								
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	9.5%	of	\$	3,043,656	\$	289,147		
Subtotal Sales Tax	0.070	OI .	Ψ	0,040,000	Ψ	200,147	\$	289,147
Project Management / Engineering							Ψ	209,147
Preliminary Engineering	5%	of	\$	3,043,656	¢	152,183		
Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10	10% 2%	of of	\$ \$	3,043,656 3,043,656	\$	304,366 60,873		
	270	Oi	Ψ	3,043,030	Ψ	00,073	¢	517 421
Subtotal Section Project Management Right of Way							\$	517,421
INIGHT OF Way								
Subtotal Right of Way							œ	
Subtotal Right of Way							\$	<u> </u>
Major Utility Relocates			ው		φ			
Utility - Public Utility - Fiber Optics Utility Engineering (8% of Major Utility Polecates)	- 1	LS LS	\$ \$	800,000	\$	800,000		
Utility Engineering (8% of Major Utility Relocates)	8%	of	\$	-	\$	-	•	000.000
Subtotal Major Utility Relocations							\$	800,000

CITY OF MAPLE VALLEY PLATFORM AND PLATFORM TRACK ESTIMATE - CONTRACTOR COST BASIS

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate SUMMARY OF COST ESTIMATE								
TOTAL CONSTRUCTION ITEMS					\$	6,791,235	\$	6,800,000
SALES TAX					\$	645,167	\$	700,000
TOTAL RIGHT OF WAY COSTS					\$	-	\$	-
PROGRAM MANAGEMENT AND ENGINEERING					\$	1,154,510	\$	1,200,000
TOTAL MAJOR UTILITY RELOCATION COSTS					\$	125,000	\$	200,000
TOTAL PROJECT COSTS (without Contingency)					\$	8,715,912	\$	8,900,000
TOTAL PROJECT COSTS Contingency	30%				\$ \$	2,614,774 11,330,686	\$	ROUNDED 11,400,000
	Quantity	Units		Unit Cost				ection Cost
POADWAY/OTBUOTUBE ITEMS	Quantity	Ullits		01111 0031		nem cost		
ROADWAY/STRUCTURE ITEMS								
Preparation	2000	01/	•	00	•	000 000		
Grading, New Track Demolition of Existing Grade Separation - Bridge	8000	CY Each	\$	100,000	\$	208,000		
Demolition of Existing Grade Separation - Walls		Each	\$	50,000	\$	-		
Subtotal Preparation							\$	208,000
Railroad Track Rehabilitation and Construction								
Construct Maple Valley City Siding Construct 141 lb. CWR, Conc. Tie Track	2000	TF		244	\$	488,000		
Install No. 20 Turnout	1	EA	\$	250,000	\$	250,000		
Subtotal Railroad Track							\$	738,000
Station Items								
City of Maple Valley Platform-300 ft. long Parking Lot	1 36,000	EACH SY	\$	1,600,000 50	\$	1,600,000 1,800,000		
Site Work and Retaining Walls at Station area	1	LS	\$	1,000,000	\$	1,000,000		
Subtotal Station Items							\$	4,400,000
Traffic Items								
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Specialty excl. Env. Mit.)	10%	of		208,000		20,800		
Pavement Markings at Crossings Roadway/ Facility Signing		LS LS	\$	200,000 1,000,000	\$ \$	-		
Railroad Crossing Signal and ITS System		Each	\$	400,000	\$	-		
Subtotal Traffic Items							\$	20,800
Minor Items		_						
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	15%	of	\$	4,628,800	\$	694,320		
Subtotal Minor Items							\$	694,320
Mobilization (Co. 10 cm at 7)	4004		•					
Mobilization (% of Sections 1-7)	10%	of	\$	5,323,120	\$	532,312	•	500.040
Subtotal Mobilization							\$	532,312
Other								
Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9)	0.0% 3.0%	of of		6,593,432 6,593,432	\$	197,803		
Warranty Financing		LS LS			\$ \$	-		
Subtotal Differing Site Conditions							\$	197,803
Sales Tax								
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	9.5%	of	\$	6,791,235	\$	645,167		
Subtotal Sales Tax							\$	645,167
Project Management / Engineering								
Preliminary Engineering	5%	of		6,791,235		339,562		
Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10	10% 2%	of of		6,791,235 6,791,235		679,123 135,825		
Subtotal Section Project Management							\$	1,154,510
Major Utility Relocates								
Utility - Public	-	LS		500,000		-		
Utility - Fiber Optics Utility Engineering (8% of Major Utility Relocates)	0 8%	LS of		500,000	\$ \$	125,000		
Subtotal Major Utility Relocations							\$	125,000

RAVENSDALE OPERATIONS AND MAINTENANCE FACILITY ESTIMATE - CONTRACTOR COST BASIS

WSDOT DMU Study - Auburn to Maple Valley 5% Cost Estimate SUMMARY OF COST ESTIMATE							
TOTAL CONSTRUCTION ITEMS				\$	4,174,697	\$	4,200,000
SALES TAX				\$	400,396	\$	500,000
TOTAL RIGHT OF WAY COSTS				\$	200,000	\$	200,000
PROGRAM MANAGEMENT AND ENGINEERING				\$	716,498	\$	800,000
TOTAL MAJOR UTILITY RELOCATION COSTS				\$	270,000	\$	300,000
TOTAL PROJECT COSTS (without Contingency)				\$	5,761,591	\$	6,000,000
TOTAL PROJECT COSTS Contingency	30%			\$ \$	1,728,477 7,490,068	\$	ROUNDED 7,500,000
	Quantity	Units	Unit Cost		Item Cost		ection Cost
DOADWAY/STRUCTURE ITEMS	Quantity	Onits	Oint Goot		nem cost		
Preparation							
Grading, New Track	4000	CY \$	26	\$	104,000		
Subtotal Preparation	4000	OΓΨ	20	Ψ	104,000	\$	104,000
Railroad Track Rehabilitation and Construction						<u> </u>	104,000
Construct Maple Valley City Siding & Station Track, Conn. To Ravensdale				\$	-		
Construct 141 lb. CWR, Conc. Tie Track Install No. 11 Turnout	1000	TF \$ EA \$	244 145,000		244,000 290,000		
Subtotal Railroad Track						\$	534,000
Operations and Maintenance Facility Items							
Office/Crew Change Building Open sided steel frame repair shed	1,500 7,650	SF \$ SF \$	325 200	\$ \$	487,500 1,530,000		
Inspection pit, drip pans, and oil/water separator Parking Lot	1 3,000	LS \$ SY \$	500,000 50	\$ \$	500,000 150,000		
Security Fence Subtotal Station Items	1,600	LF \$	25	\$	40,000	\$	2,667,500
Traffic Items							
Traffic Control/Staging (% Earthwork, Paving, Structures excl. Liquifaction, Specialty	10%	of \$	104,000	\$	10,400		
excl. Env. Mit.) Pavement Markings at Crossings	0	LS \$	200,000	\$	-		
Roadway/ Facility Signing Railroad Crossing Signal and ITS System	0	LS \$ Each \$	1,000,000 400,000		-		
Subtotal Traffic Items						\$	10,400
Minor Items							
Minor Items (% of Sections 1-6, excl. Liq. Mit., excl. Env. Mit.)	15%	of \$	2,781,900	\$	417,285		
Subtotal Minor Items						\$	417,285
Mobilization							
Mobilization (% of Sections 1-7)	10%	of \$	3,199,185	\$	319,919		
Subtotal Mobilization						\$	319,919
Other							
Differing Site Conditions % of Section 1 thru 8 General bonds and Insurance (Section 1-9)	0.0% 3.0%	of \$ of \$	4,093,104 4,053,104		- 121,593		
Warranty Financing	0.070	LS LS	4,000,104	\$ \$	-		
Subtotal Differing Site Conditions		20		Ψ		\$	121,593
Sales Tax							121,000
Sales Tax (% of Sections 1 thru 10 less BNSF Force Account Work)	9.5%	of \$	4,214,697	\$	400,396		
Subtotal Sales Tax	0.070	σ, φ	1,211,007	Ÿ	100,000	\$	400,396
Project Management / Engineering							
Preliminary Engineering	5%	of \$	4,214,697	\$	210,735		
Constr Engr and Insp % of Sections 1 thru 10 Program Management % of Sections 1 thru 10	10% 2%	of \$ of \$	4,214,697 4,214,697	\$	421,470 84,294		
Subtotal Section Project Management						\$	716,498
Right of Way							
Acquisition of Residential (Based on 2010 Taxable Value) Acquisition of Commercial (Based on 2010 Taxable Value)	- 2	LS \$ AC \$		\$	200,000		
ROW for Retention/Detention Facilities Permanent Easements	-	SF \$	100,000	\$ \$	∠∪∪,UUU -		
Temporary Construction Easement Change in Access	- -	SF \$ SF \$ LS \$	-	\$ \$	-		
Labor for Right of Way Services	-	LS \$	-	\$	-		
Subtotal Right of Way						\$	200,000
Major Utility Relocates							
Utility - Public Utility - Fiber Optics	1 -	LS \$ LS \$	250,000 1,000,000		250,000		
Utility Engineering (8% of Major Utility Relocates)	8%	of \$	250,000		20,000		
Subtotal Major Utility Relocations						\$	270,000

Rail Relay	Limits
M P From	M

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M.P.	From	M.P. To	Miles	TF
	85.2	85.6	0.4	2,112
	86.1	92.4	6.3	33,264
	93.2	93.8	0.6	3,168
	94.5	95.7	1.2	6,336
	96.1	98.5	2.4	12,672
	99.4	100.3	0.9	4,752
	101.3	102.7	1.4	7,392
Total			13.2	69,696